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HOME

PRESIDENT'S WELCOME

Welcome to California State University, Sacramento

We are the Hornet Family – a family of over 30,000 students, staff, and faculty. It is an exciting and transformational time at Sacramento State and our campus undergoes significant construction. We have recently opened new residence halls, a downtown location, a parking garage, expanded our University Union, and our state-of-the-art science complex is rising from the ground. It is truly an exciting time to be a Hornet.

Over the past few years, we have seen numerous accomplishments that are redefining Sacramento State. Our four-year and six-year graduation rates continue to improve, and we were awarded with the American Association of State Colleges and Universities (AASCU) Student Success and College Completion Award for our Finish in Four plan for student success. In the spring, we began construction on a 1,100 bed student housing apartment complex on the southeast side of campus, we purchased a building on Folsom Boulevard to use as a training facility for our gymnastics' team, and we are excited about the completion of the University Union expansion. Our programs and students would not have these successes without the outstanding faculty and curriculum at Sacramento State. Our faculty spend countless hours developing courses that will give our students the highest-quality and most relevant education for their field.

The catalog is designed to help you navigate your academic pathways to success throughout your time here at Sacramento State. It is a resource for courses, programs, and several academically-related policies; following its guidelines will help you graduate on time. I am proud to welcome you to the 2019-2020 catalog, and I look forward to seeing you on campus. Stingers Up!

Sincerely,

Robert S. Nelsen
President

CALIFORNIA PROMISE

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

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

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

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

Commitment:

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

Benefits:

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

Finish in Four Pledge (http://www.csus.edu/excellence/take15/)

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

Commitment:

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

Benefits:

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

Through in Two Pledge (http://www.csus.edu/excellence/take15/)

THE CSU SYSTEM

Welcome to the California State University (CSU) – the nation's largest comprehensive university with 23 unique campuses serving approximately 482,000 students and employing more than 53,000 faculty and staff.

Each year, the university awards more than 127,000 degrees. CSU graduates are serving as leaders in the industries that drive California's economy, including business, agriculture, entertainment, engineering, teaching, hospitality and healthcare. Learn more at California State University website (http://www.calstate.edu).

A Tradition of Excellence for More than Five Decades

Since 1961, the CSU has provided an affordable, accessible and high-quality education to 3.7 million graduates throughout California. While each campus is unique based on its curricular specialties, location and campus culture, every CSU is distinguished for the quality of its educational programs. All campuses are fully accredited, provide a high-quality broad liberal educational program and offer opportunities for students to engage in campus life through the Associated Students, Inc., clubs and service learning. Through leading-edge programs, superior teaching and extensive workforce training opportunities, CSU students graduate with the critical thinking skills, industry knowledge and hands-on experience necessary for employment and career advancement.

Facts

- Today, one of every 20 Americans with a college degree is a CSU graduate.
- 1 of every 10 employees in California is a CSU graduate.
- The CSU awards about half of the bachelor's degrees earned in California.
- The CSU awards 41% of California's nursing degrees.
- The CSU is the leading provider of teacher preparation programs in the state.
- In 2018-19, the CSU awarded nearly 20,000 business degrees and more than 6,700 engineering degrees.
- The CSU offers more than 140 fully online and 120 hybrid degree programs and concentrations.
- The CSU offers more than 4,750 online courses per term, providing more educational options to students who may prefer an online format to a traditional classroom setting.
- The CSU's online concurrent enrollment program gives students the ability to enroll in courses offered by other campuses in the CSU.
- Over a recent four year period, the CSU has issued nearly 50,000 professional development certificates in education, health services, business and technology, leisure and hospitality, manufacturing, international trade and many other industries.
- CSU Centers for Community Engagement and Service Learning make available more than 3,100 service learning courses.
- More than 67,000 students participate in service-learning, contributing more than 1.1 million hours of service each year.
- For every $1 that the state invests in the CSU, the university generates $5.43 for California's economy.

Governance

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

CSU Historical Milestones

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

The oldest campus—San José State University—was founded in 1857 and became the first institution of public higher education in California. The newest—California State Univerisity Channel Islands—opened in fall 2002, with freshmen arriving in fall 2003.

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

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

To improve degree completion and accommodate students working full- or part-time, the educational paradigm was expanded to give students the ability to complete upper-division and graduate requirements through part-time, late afternoon, and evening study. The university also expanded its programs to include a variety of teaching and school service credential programs, specially designed for working professionals.

In 2010, in an effort to accommodate community college transfer students, the CSU, in concert with the California Community Colleges (CCC), launched the Associate Degree for Transfer (ADT), which guarantees CCC transfer students with an ADT admission to the CSU with junior status. ADT has since proven to be the most effective path to a CSU for transfer students.

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

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

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

By providing an accessible, hands-on education that prepares graduates for career success, the CSU has created a network of alumni that is so extensive and renowned that it spans across the globe. As of 2019-20, more than 8 million CSU alumni are making a difference in the lives of the people of California and the world.

Office of the Chancellor

The California State University
401 Golden Shore
Long Beach, CA 90802-4210
(562) 951-4000

Dr. Timothy P. White - Chancellor
Mr. Steve Relyea - Executive Vice Chancellor and Chief Financial Officer
Dr. Loren J. Blanchard - Executive Vice Chancellor, Academic and Student Affairs
Mr. Andrew Jones - Executive Vice Chancellor, General Counsel
Mr. Garrett P. Ashley - Vice Chancellor, University Relations and Advancement
Ms. Evelyn Nazario - Vice Chancellor, Human Resources
Mr. Larry Mandel - Vice Chancellor and Chief University Auditor

Trustees of the CSU

Ex-Officio Trustees

The Honorable Gavin Newsom
Governor of California

The Honorable Eleni Kounalakis
Lieutenant Governor of California

The Honorable Anthony Rendon
Speaker of the Assembly

The Honorable Tony Thurmond
State Superintendent of Public Instruction

Dr. Timothy P. White
Chancellor of The California State University

Officers of the Trustees

The Honorable Gavin Newsom - President

Adam Day - Chair

Lillian Kimbell - Vice Chair

Andrew Jones - Secretary

Steve Relyea - Treasurer

Appointed Trustees

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

Silas Abrego (2021)

Larry L Adamson (2020)

Jane W. Carney (2022)

Adam Day (2023)

Rebecca D. Eisen (2020)

Douglas Faigin (2025)

Debra S. Farar (2022)

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Maryana Khames (2021)

Lillian Kimbell (2024)

Jeffrey Krinsk (2027)

John “Jack” McGrory (2023)

Hugo N. Morales (2020)

Romey Sabalius (2019)

Lateefah Simon (2019)

Christopher J. Steinhauser (2026)

Peter J. Taylor (2021)

Correspondence with Trustees should be sent:
c/o Trustees Secretariat
The California State University
401 Golden Shore
Long Beach, California 90802-4210

Campuses of the California State University

CALIFORNIA STATE UNIVERSITY, BAKERSFIELD
9001 Stockdale Highway
Bakersfield, CA 93311-1022
Dr. Lynnette Zelezny, President
(661) 654-2782
www.csub.edu (http://www.csub.edu/)

CALIFORNIA STATE UNIVERSITY, CHANNEL ISLANDS
One University Drive

Camarillo, CA 93012
Dr. Erika D. Beck, President
(805) 437-8400
www.csuci.edu (http://www.csuci.edu/)

CALIFORNIA STATE UNIVERSITY, CHICO
400 West First Street
Chico, CA 95929
Dr. Gayle E. Hutchinson, President
(530) 898-4636
www.csuchico.edu (http://www.csuchico.edu/)

CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS
1000 East Victoria Street
Carson, CA 90747
Dr. Thomas A. Parham, President
(310) 243-3696
www.csudh.edu (http://www.csudh.edu/)

CALIFORNIA STATE UNIVERSITY, EAST BAY
25800 Carlos Bee Boulevard
Hayward, CA 94542
Dr. Leroy M. Morishita, President
(510) 885-3000
www.csueastbay.edu (http://www20.csueastbay.edu/)

CALIFORNIA STATE UNIVERSITY, FRESNO
5241 North Maple Avenue
Fresno, CA 93740
Dr. Joseph I. Castro, President
(559) 278-4240
www.csufresno.edu (http://www.csufresno.edu/)

CALIFORNIA STATE UNIVERSITY, FULLERTON
800 N. State College Boulevard
Fullerton, CA 92831-3599
Mr. Framroze Virjee, President
(657) 278-2011
www.fullerton.edu (http://www.fullerton.edu/)

CALIFORNIA STATE UNIVERSITY, SACRAMENTO
6000 J Street
Sacramento, CA 95819
Dr. Robert S. Nelsen, President
(916) 278-6011
www.csus.edu (http://www.csus.edu/)

CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO
5500 University Parkway
San Bernardino, CA 92407-2318
Dr. Tomás D. Morales, President
(909) 537-5000
www.csusb.edu (https://www.csusb.edu/)

SAN DIEGO STATE UNIVERSITY
5500 Campanile Drive
San Diego, CA 92182
Dr. Adela de la Torre, President
(619) 594-5200
www.sdsu.edu (https://www.sdsu.edu/)

SAN FRANCISCO STATE UNIVERSITY
1600 Holloway Avenue
San Francisco, CA 94132
Dr. Lynn Mahoney, President
(415) 338-1111
www.sfsu.edu (http://www.sfsu.edu/)

SAN JOSÉ STATE UNIVERSITY
One Washington Square
San José, CA 95192-0001
Dr. Mary A. Papazian, President
(408) 924-1000
www.sjsu.edu (http://www.sjsu.edu/)

HUMBOLDT STATE UNIVERSITY
1 Harpst Street
Arcata, CA 95521-8299
Dr. Tom Jackson, Jr., President
(707) 826-3011
www.humboldt.edu (https://www.humboldt.edu/)

CALIFORNIA STATE UNIVERSITY, LONG BEACH
1250 Bellflower Boulevard
Long Beach, CA 90840-0115
Dr. Jane Close Conoley, President
(562) 985-4111
www.csulb.edu (https://www.csulb.edu/)

CALIFORNIA STATE UNIVERSITY, LOS ANGELES
5151 State University Drive
Los Angeles, CA 90032
Dr. William A. Covino, President
(323) 343-3000
www.calstatela.edu (http://www.calstatela.edu/)

CALIFORNIA MARITIME ACADEMY
200 Maritime Academy Drive
Vallejo, CA 94590
Rear Admiral Thomas A. Cropper, President
(707) 654-1000
www.csum.edu (https://www.csum.edu/web/mycampus/home/)

CALIFORNIA STATE UNIVERSITY, MONTEREY BAY
100 Campus Center
Seaside, CA 93955-8001
Dr. Eduardo M. Ochoa, President
(831) 582-3000
www.csumb.edu (https://csumb.edu/)

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE
18111 Nordhoff Street
Northridge, CA 91330
Dr. Dianne F. Harrison, President
(818) 677-1200
www.csun.edu (http://www.csun.edu/)

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA
3801 W. Temple Avenue
Pomona, CA 91768
Dr. Soraya M. Coley, President
(909) 869-7659
www.cpp.edu (http://www.cpp.edu/)

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO
One Grand Avenue
San Luis Obispo, CA 93407
Dr. Jeffrey D. Armstrong, President

(805) 756-1111
www.calpoly.edu (http://www.calpoly.edu/)

CALIFORNIA STATE UNIVERSITY, SAN MARCOS
333 South Twin Oaks Valley Road
San Marcos, CA 92096-0001
Dr. Ellen J. Neufeldt, President
(760) 750-4000
www.csusm.edu (http://www.csusm.edu/)

SONOMA STATE UNIVERSITY
1801 East Cotati Avenue
Rohnert Park, CA 94928
Dr. Judy K. Sakaki, President
(707) 664-2880
www.sonoma.edu (http://www.sonoma.edu/)

CALIFORNIA STATE UNIVERSITY, STANISLAUS
One University Circle
Turlock, CA 95382
Dr. Ellen N. Junn, President
(209) 667-3122
www.csustan.edu (https://www.csustan.edu/)

ABOUT THE UNIVERSITY

California State University, Sacramento

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

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

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

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

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

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

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

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

For more information, visit www.csus.edu (http://www.csus.edu).

University Mission and Strategic Planning

The Division of Academic Affairs strives every day to enable students, faculty, and staff to achieve their full potential and create a learning environment that promotes success and accomplishment. In the 2017-18 academic year, the Division endeavors to enhance our efforts for students to "finish in four" and broaden diversity and inclusion.

Hornet Honor Code

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

As Hornets, we will:

1. Promote an inclusive campus and community.

2. Listen and respect each other's thoughts, interests, and views.

3. Value diversity and learn from one another.

4. Engage daily with mutual trust, care, and integrity.

5. Support a culture of honor and adhere to campus policies for honesty, ethics, and conduct.

6. Be proud to be Sac State Hornets

University Foundation at Sacramento State

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

Mission Statement

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

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

Board of Directors

Robert S. Nelsen (President)
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Holly Tiche (Secretary | Co-chair, Governance Committee)
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Bernice Bass de Martinez (Faculty Representative)
Noel Mora (Student Representative)
Craig Barth (Ex-officio)

Administrative Officers

Office of the President

President	Robert S. Nelsen	916-278-7737
Chief of Staff	Lisa Cardoza	916-278-7737
Chief Communication Officer	Cely Smart	916-278-7737
Executive Director of Diversity and Inclusion	Diana Tate Vermeire	916-278-7737
Executive Director for University Initiatives and Student Success	James (Jim) Dragna	916-278-7737
Senior Associate Vice President of University Communications	Jeannie Wong	916-278-2067
Director of Athletics	Mark Orr	916-278-6481

Academic Affairs

Interim Provost and Vice President for Academic Affairs	Steve Perez	916-278-6331
Interim Vice Provost for Academic Affairs (Strategic Services)	Christine Miller	916-278-6331
Interim Vice Provost for Academic Affairs (Faculty Affairs)	Robin Carter	916-278-7579
Associate Vice President for Academic Programs and Educational Effectiveness	Amy Wallace	916-278-5933
Associate Vice President, Research Affairs	Yvonne Harris	916-278-6402
Dean of Graduate Studies	Chevelle Newsome	916-278-6470
Director of Graduate Studies & Special Assistant to the Dean	Todd Migliaccio	916-278-6470
Dean of Undergraduate Studies	James German	916-278-5344
Director, Center for Teaching and Learning	Lynn Tashiro	916-278-5945
Director, First Year Experience	Bridget Parsh	916-278-4035
Director, General Education Honors Program	Lee Simpson	916-278-2804
Administrative Director, Community Engagement Center	Dana Kivel	916-278-4610
Director, Early Assessment Program, Center for College Readiness	Joy Salvetti	916-278-3643
Co-Director, Accelerated College Entrance (ACE)	Frank Lilly	916-278-4120
Dean, College of Arts and Letters	Sheree Meyer	916-278-6502
Associate Dean, College of Arts and Letters	Christina Bellon	916-278-6502
Associate Dean, College of Arts and Letters	Melinda Wilson Ramey	916-278-6052
Dean, College of Business Administration	William Corderio	916-278-6578
Associate Dean (Interim) for Academic Programs, College of Business Administration	Martha (Marty) Wilson	916-278-5566
Associate Dean (Interim) for Faculty Research, College of Business Administration	Martha (Marty) Wilson	916-278-6463
Dean, College of Continuing Education	Jenni Murphy	916-278-4433
Associate Dean, College of Continuing Education	Vacant	
Dean, College of Education	Alexander Sidorkin	916-278-6523
Associate Dean, College of Education	Karen O'Hara	916-278-6523
Associate Dean, College of Education	Pia Wong	916-278-6523
Dean, College of Engineering and Computer Science	Lorenzo M. Smith	916-278-6127

Associate Dean, College of Engineering and Computer Science	Kevan Shafizadeh	916-278-6852
Dean, College of Health and Human Services	Fred Baldini	916-278-7255
Associate Dean, College of Health and Human Services	Greg Shaw	916-278-7255
Associate Dean, College of Health and Human Services	Mary Maguire	916-278-7255
Dean, College of Natural Sciences and Mathematics	Joanna Mott	916-278-4655
Associate Dean, College of Natural Sciences and Mathematics	Lisa Hammersley	916-278-4655
Associate Dean, College of Natural Sciences and Mathematics	Yinfa Ma	916-278-4655
Dean, College of Social Sciences and Interdisciplinary Studies	Dianne Hyson	916-278-6504
Associate Dean, College of Social Sciences and Interdisciplinary Studies	Vacant	916-278-6504
Associate Dean, College of Social Sciences and Interdisciplinary Studies	Marya Endriga	916-278-6504
Dean of the University Library	Amy Kautzman	916-278-6230
Associate Dean of the University Library	Nicole Lawson	916-278-5679
Associate Dean of the University Library	Suzanna Conrad	916-278-5659

Administration and Business Affairs

Vice President for Administration/Chief Financial Officer	Jonathan Bowman	916-278-6312
Senior Associate Vice President, Human Resources	Machelle Martin	916-278-6078
Associate Vice President, Budget Planning & Administration	Rose McAuliffe	916-278-3909
Associate Vice President, Financial Services	Gina Curry	916-278-7461
Associate Vice President, Facilities Management	Dr. Justin Reginato	916-278-6241
Senior Director, Resource & Organizational Management	Bena Arao	916-278-6178
Associate Vice President, Risk Management Services	Gary Rosenblum	916-278-5252
Chief of Police	Mark Iwasa	916-278-7321
Director, Auditing & Consulting Services	Kristin Weigle Roberts	916-278-7439
Senior Director, University Support Services	Tony Lucas	916-278-5241
Administrative Officer, Office of the Vice President for Administration/CFO	Margaret Hwang	916-278-6312

Human Resources

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

Sr. Associate Vice President for Human Resources	Vacant	916-278-6078
Director of Equal Opportunity	William Bishop	916-278-7469
Benefits Manager	Scott Oleinik	916-278-6213
Manager of Employment Services	Penny Schafer	916-278-5613
Payroll Manager	Darlene Edelman	916-278-5597
Classification & Compensation	Michelle Dungca	916-278-6858
Employee & Labor Relations Manager	Chela Cholula	916-278-6779

Student Affairs

Vice President/Chief Enrollment Officer	Ed Mills	916-278-6060
Chief of Strategic Initiatives	Bill Macriss	916-278-6060
Associate Vice President, Dean of Students, Student Engagement & Success	Beth Lesen	916-278-4056
Associate Vice President, Enrollment and Student Services	Steven Salcido	916-278-6060
Associate Vice President, Student Retention & Academic Success	Marcellene Watson-Derbigny	916-278-6183
Associate Vice President, Student Health & Counseling Services (SHCS)	Joy Stewart-James	916-278-6049

Assistant Vice President, Strategic Diversity Initiatives	Viridiana Diaz	916-278-6859
Assistant Vice President, Strategic Success Initiatives	Tina Jordan	916-278-6725
Executive Director, University Housing Services	Michael Speros	916-278-6655
Director, Academic Advising	Miesha Williams	916-278-1000
Director, Admissions & Outreach	Brian Henley	916-278-2674
Executive Director, Associated Students, Inc.	Sandra Gallardo	916-278-6784
Director, ASI Aquatics Center	Brian Dulgar	916-278-2842
Director, ASI Children's Center	Sherry Velte	916-278-5120
Director, ASI Finance & Administration	Mark Montalvo	916-278-7917
Director, ASI Peak Adventures	Sasha Smirnova	916-278-5382
Director, ASI Student Engagement & Outreach	Reuben Greenwald	916-278-4148
Director, Business Operations	Karyl Burwell	916-278-6060
Director, Career Center	Melissa Repa	916-278-6233
Director (Interim), Centers for Diversity & Inclusion (PRIDE, Multi-Cultural Center, and Women's Resource Center)	Danielle Munoz	916-278-6101
Director, Counseling & Psychological Services (SHCS)	Ron Lutz	916-278-6461
Director, Financial Aid & Scholarships	Anita Kermes	916-278-6980
Director, Health Services (SHCS)	Lisa Johnson	916-278-7966
Director, Housing Operations & Conference Services	Samuel Jones	916-278-6655
Director, Parents & Families Program	Haley Myers Dillon	916-278-4353
Director, Student-Athlete Resource Center	Paul Edwards	916-278-7796
Director, Student Conduct/Assistant Dean of Students	Tom Carroll	916-278-4056
Director, Student Organizations & Leadership	Nicki Croly	916-278-6595
Director, Student Affairs Technology & Imaging	Susana Valdez	916-278-7707
Director, Student Service Center	Jeff Weston	916-278-1000
Director, Veterans Success Center	Jeff Weston	916-278-6733
Director, Services to Students with Disabilities/Testing Center	Mary Lee Vance	916-278-6955
University Registrar	Danielle Ambrose	916-278-3625
Executive Director, Union WELL, Inc.	Bill Olmsted	916-278-6745
Director, University Union	Dean Sorensen	916-278-7912
Director, The WELL	Kate Smith	916-278-2241

University Advancement

Vice President, University Advancement	Lisa Cardoza	916-278-7043
Associate Vice President, University Development	Tracy Latino Newman	916-278-2835
Assistant Vice President, Alumni Relations/Annual Giving	Jennifer Barber	916-278-3634
Executive Director of Principal Gifts and Campaign	E. Antoinette Vojtech	916-278-4912
Executive Director of Annual Giving	Sharon Takeda	916-278-3922
Director of Advancement Services, Stewardship, and Planned Giving	Lisa Woodard-Mink	916-278-3852

University Auxiliary Organizations

Executive Director, Associated Students, Inc.	Sandra Gallardo	916-278-6784
Executive Director, University Enterprises, Inc.	James Reinhart	916-278-7001
President and General Manager, Capital Public Radio	Rick Eytcheson	916-278-8901
Board Chair, The University Foundation at Sacramento State	Tina Treis	916-278-7043
Executive Director, Union WELL, Inc.	Bill Olmsted	916-278-6745

ACCREDITATION

California State University, Sacramento is fully accredited by the Western Association of Schools and Colleges, and for teacher education by the California Commission on Teacher Credentialing; the University is also a member of the National Council of Graduate Schools and the Western Association of Graduate Schools, and is on the list of approved colleges by the American Association of University Women.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

The following is a list of individually accredited programs:

Program	Degree	Accreditation
College of Arts and Letters		
Graphic Design	Bachelor of Science	National Association of Schools of Art and Design
Interior Design	Bachelor of Arts	Council for Interior Design Accreditation (CIDA)
Music	Bachelor of Arts, Bachelor of Music, Master of Music	National Association of Schools of Music
Theatre Arts	Bachelor of Arts	National Association of Schools of Theatre Arts
College of Business Administration		
Business	Bachelor of Science, Master of Business Administration, Master of Science	AACSB International Association to Advance Collegiate Schools of Business
College of Education		
Counseling Program (Rehabilitation)	Master of Science	Council for Accreditation of Counseling and Related Educational Programs (CACREP)
Education - School Psychology	Master of Arts in Education, Specialist in Education (Ed.S)	National Association of School Psychologists
College of Engineering and Computer Science		
Civil Engineering	Bachelor of Science	ABET, Inc.
Computer Engineering	Bachelor of Science	ABET, Inc.
Computer Science	Bachelor of Science	Computing Accreditation Commission of ABET, Inc.
Construction Management	Bachelor of Science	American Council for Construction Education
Electrical and Electronic Engineering	Bachelor of Science	ABET, Inc.
Mechanical Engineering	Bachelor of Science	ABET, Inc.
College of Health and Human Services		
Communication Science and Disorders	Bachelor of Science, Master of Science	American Speech-Language-Hearing Association
Kinesiology	Bachelor of Science, Athletic Training Option	Commission on Accreditation of Athletic Training Education (CAATE)
Kinesiology	Bachelor of Science, Physical Education Option	California Commission on Teacher Credentialing (CCTC)
Nursing	Bachelor of Science, Master of Science	Commission on Collegiate Nursing Education (CCNE)
Physical Therapy	Doctor of Physical Therapy	Commission on Accreditation in Physical Therapy Education (CAPTE)
Recreation, Parks, and Tourism Administration	Bachelor of Science, Master of Science	Council on Accreditation of Parks, Recreation, Tourism and Related Professions (COAPRT)
Social Work	Bachelor of Arts, Master of Social Work	Council of Social Work Education (CSWE)
College of Natural Sciences and Mathematics		
Chemistry	Bachelor of Arts, Bachelor of Science	American Chemical Society
College of Social Science and Interdisciplinary Studies		
Family and Consumer Science	Bachelor of Arts, Special Major in Dietetics	American Dietetics Association
Gerontology	Bachelor of Science	Association of Gerontology in Higher Education
Liberal Studies	Bachelor of Arts	California Commission on Teacher Credentialing (CCTC)

ACADEMIC CALENDAR

Academic Calendar - Fall 2020

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

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

March 2020	Fall 2020 Schedule Available at My Sac State
March - April, 2020	Departmental and Academic Advising
April 27-May 15, 2020	Fall 2020 Registration for continuing students
May 16-31, 2020	Fall 2020 Registration unavailable
May 20, 2020	Last Day of Academic Year 2019-2020
May 26, 2020	Summer Session Begins (Summer 6W1 and Summer 12W)
June 1 - 5, 2020	Fall 2020 Registration resumes for continuing students
June 8 - 24, 2020	Transfer student orientation and registration
June 29-July 31, 2020	Freshman orientation and registration
July 3, 2020	Independence Day (Holiday, Campus Closed)
July 2, 2020	Instruction Ends (Summer 6W1)
July 6, 2020	Summer Session Begins (Summer 6W2)
July 9, 2020	Summer 6W1 Grades Due
August 1-9, 2020	Fall 2020 registration unavailable
August 10-27, 2020	Fall 2020 Open Registration for eligible students (opens 12:01am 8/10; closes 5:00pm 8/27)
August 14, 2020	Instruction Ends (Summer 6W2 and Summer 12W)
August 26, 2020	Academic Year Begins
August 20, 2020	Summer 6W2 and Summer 12W Grades Due
August 28-30, 2020	Fall 2020 Registration unavailable
August 26-28, 2020	University-wide and/or College Meetings (Academic Workdays)
August 31-Sept 11, 2020	Fall 2020 Late Registration and Schedule Adjustment
August 31, 2020	Instruction Begins
September 7, 2020	Labor Day (Holiday Campus Closed)
September 9, 2020	Admission Day (Holiday Observed 12/26/2020) Campus Open and Classed Held
September 14-25, 2020	Fall 2020 Late Registration and Change of Schedule done by petition at departments (due Sept. 25 at 5:00pm)
September 28, 2020	Census Date
October 12, 2020	Columbus and Indigenous People's Day (Holiday Observed on 12/27/2020) Campus Open and Classes Held
November 11, 2020	Veteran's Day (Holiday, Campus Closed[1])
November 26-27, 2020	Thanksgiving Holiday (Holiday, Campus Closed)
December 11, 2020	Last Day of Instruction
December 14-18, 2020	Finals Week
Dec. 19, 2020 - Jan. 1, 2021	Winter Recess (Students)
December 24, 2020	Tentative Governor's and President's release time (Tentative Holiday Gift, Campus Closed)
December 25, 2020	Christmas Day (Holiday, Campus Closed)
December 28, 2020	Admissions Day Observed (Holiday, Campus Closed)
December 29, 2020	Columbus and Indigenous People's Day Observed (Holiday, Campus Closed)
December 30, 2020	Lincoln's Birthday Observed (Holiday, Campus Closed)
December 31, 2020	President's Day Observed (Holiday, Campus Closed)
January 1, 2021	New Year's Day (Holiday, Campus Closed)
January 4, 2021	Last Day of Fall Semester; Fall Grades Due
January 5-15, 2021	Winter Recess (Faculty)

[1] Assembly Bill 720 signed by the Governor and effective January 1, 2006, requires CSU to observe the Veterans' Day Holiday, November 11, and close the University on that day. When November 11 falls on Saturday, the holiday will be observed on the preceding Friday. When November 11 falls on a Sunday, the holiday will be observed on the following Monday.

73 Instructional Days
87 Academic Workdays* - Units 3 & 4

*Academic workdays include Saturday at end of final week of instruction, preceding finals; and include Sunday of commencement, per campus preferences. These three days are not included in instructional days.

Certain collective bargaining agreements covering CSU employees are currently scheduled to expire prior to the last day indicated on this calendar. For employees in these bargaining units, any holiday(s) or winter break listed subsequent to the expiration date of the current agreement(s) are tentative and subject to negotiations with the appropriate exclusive representative.

Academic Calendar - Spring 2021

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

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

June 2020	Spring 2021 Schedule Available at My Sac State
Nov. 23 - Dec. 22, 2020	Spring 2021 Registration for continuing students in class level priority order
Dec. 23, 2020 - Jan. 3, 2021	Spring 2021 Registration unavailable
January 4-13, 2021	New Transfer Student Orientation and Registration

January 18, 2021	Martin Luther King, Jr. Day (Holiday, Campus Closed)
January 14-21, 2021	Spring 2021 Late Registration and Change of Schedule resumes
January 20-22, 2021	University-wide and/or College Meetings (Academic Workdays)
January 22-24, 2021	Spring 2021 Registration unavailable
January 20, 2021	Spring 2021 Semester Begins (Faculty)
Jan. 25 - Feb. 5, 2021	Spring 2021 Late Registration and Schedule Adjustment
January 25, 2021	Instruction Begins
February 8-19, 2021	Spring 2021 Late Registration and Change of Schedule completed by petition at departments
February 12, 2021	Lincoln's Birthday (Holiday Observed in December 2021) Campus Open and Classes Held
February 15, 2021	Presidents' Day (Holiday Observed in December 2021) Campus Open and Classes Held
February 19, 2021	Census Date
March 22-28, 2021	Spring Recess
March 31, 2021	Cesar Chavez Birthday Observed (Holiday, Campus Closed)
May 14, 2021	Last Day of Instruction
May 17-21, 2021	Finals Week
May 21-23, 2021	Commencement
May 24-25, 2021	Evaluation Days (Academic Workdays)
May 26, 2021	Last Day of Academic Year; Spring Grades Due
May 31, 2021	Memorial Day (Holiday, Campus Closed)

76 Instructional Days; 87 Academic Workdays*

*Academic workdays include Saturday at end of final week of instruction, preceding finals; and include Sunday of commencement, per campus preference. These three days are not included in instructional days.

Total Academic Year = 147 Instructional Days, 174 Academic Workdays

Certain collective bargaining agreements covering CSU employees are currently scheduled to expire prior to the last day indicated on this calendar. For employees in these bargaining units, any holiday(s) or winter break listed subsequent to the expiration date of the current agreement(s) are tentative and subject to negotiations with the appropriate exclusive representative.

Academic Calendar - Spring 2020

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

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

March 2019	19/20 Annual Class Schedule Available at My Sac State
Nov. 25 - Dec. 20, 2019	Spring 2020 Registration for continuing students in class level priority order
Dec. 21, 2019 - Jan. 2, 2020	Spring 2020 Registration unavailable
January 3-9, 2020	New Transfer Student Orientation and Registration
January 10-16, 2020	Spring 2020 Open Registration and Change of Schedule resumes
January 16, 2020	Spring 2020 Semester Begins
January 16-17, 2020	University-wide and/or College Meetings (Academic Workdays)
January 17-20, 2020	Spring 2020 Registration unavailable
January 20, 2020	Martin Luther King, Jr. Day (Holiday, Campus Closed)
January 21, 2020	Instruction Begins
Jan. 21 - Jan. 31, 2020	Spring 2020 Late Registration and Schedule Adjustment
February 3-14, 2020	Spring 2020 Late Registration and Change of Schedule completed by petition at departments
February 12, 2020	Lincoln's Birthday (Holiday Observed on 12/28/20) Campus Open and Classes Held
February 17, 2020	Census Date
February 17, 2020	Presidents' Day (Holiday Observed on 12/29/20) Campus Open and Classes Held
March 30 - April 3, 2020	Spring Recess
March 31, 2020	Cesar Chavez Birthday Observed (Holiday, Campus Closed)
May 8, 2020	Last Day of Instruction
May 9-15, 2020	Finals Week
May 15-17, 2020	Commencement
May 20, 2020	Last Day of Academic Year; Spring Grades Due
May 18-20, 2020	Evaluation Days (Academic Workdays)
May 25, 2020	Memorial Day (Holiday, Campus Closed)

76 Instructional Days; 87 Academic Workdays*

*Academic workdays include Saturday at end of final week of instruction, preceding finals; and include Sunday of commencement, per campus preference. These three days are not included in instructional days.

Total Academic Year = 147 Instructional Days, 174 Academic Workdays

Certain collective bargaining agreements covering CSU employees are currently scheduled to expire prior to the last day indicated on this calendar. For employees in these bargaining units, any holiday(s) or winter break listed subsequent to the expiration date of the current agreement(s) are tentative and subject to negotiations with the appropriate exclusive representative.

ACADEMIC POLICIES

Changes in Rules and Policies

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

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

Academic Honesty

Vice President for Student Affairs
(916) 278-6060

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

The Sacramento State Academic Honesty Policy and Procedures can be accessed at:http://www.csus.edu/umanual/student/stu-0100.htm. (http://www.csus.edu/umanual/student/stu-0100.htm)

Grading System

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

Grade	Grade Points
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
D-	0.7
F	0.0

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

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

Definition of Grade Symbols

A	Exemplary achievement of the course objectives. In addition to being clearly and significantly above the requirements, work exhibited is of an independent, creative, contributory nature.
B	Superior achievement of the course objectives. The performance is clearly and significantly above the satisfactory fulfillment of course requirements.
C	Satisfactory achievement of the course objectives. The student is now prepared for advanced work or study. Note: The letter grade “C” does not imply satisfactory achievement at the graduate level.
D	Unsatisfactory achievement of course objectives, yet achievement of a sufficient proportion of the objectives so that it is not necessary to repeat the course unless required to do so by the academic department.
F	Unsatisfactory achievement of course objectives to an extent that the student must repeat the course to receive credit.

WU	Withdrawal Unauthorized indicates that an enrolled student did not withdraw from the course and also failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities, or both, were insufficient to make normal evaluation of academic performance possible. For purposes of grade point average, this symbol is equivalent to an "F". (See Deletion Policy)
CR	Satisfactory achievement of course objectives. (Not used in Sacramento State grade point calculation.)
NC	Unsatisfactory achievement of course objectives. (Not used in Sacramento State grade point calculation, but is calculated as "F" by many graduate and professional schools.)
I	Incomplete Authorized. A portion of the requirements usually completed during one term remains to be completed and evaluated. (Not used in grade point calculation.) See Incomplete Grade policy, which follows.
RP	Report in progress. Work is in progress on thesis, project or similar course extending beyond one term. (Not used in grade point calculation.) See "RP" Grade Policy, which follows.
W	The symbol "W" indicates that the student was permitted to withdraw from the course after the fourth week of instruction with the approval of the instructor and appropriate campus officials. It carries no connotation of quality of student performance and is not used in grade point calculation.
RD	Report Delayed because a grade has not been reported to the registrar due to circumstances beyond control of student. (Not used in grade point calculation.)
AU	Audit symbol indicates student's status as auditor and does not earn degree credit. (See Admission of Auditors.)

Audit Grade Symbol

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

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

Incomplete Grades

The symbol "I" (Incomplete Authorized) indicates that a portion of required coursework has not been completed and evaluated during the course due to unforeseen but fully justified reasons and that there is still a possibility of earning credit.[1] It is the responsibility of the student to bring pertinent information to the attention of the instructor and to determine from the instructor the remaining course requirements that must be satisfied to remove the Incomplete. A final grade is assigned when the work agreed upon has been completed and evaluated. An "I" (Incomplete Authorized) should not be assigned when it is necessary for the student to attend additional class meetings to complete the course requirements. When assigning an 'I' grade faculty will complete an online contract visible to student indicating assignments needing to be completed to meet the terms of the contract. An Incomplete must be made up within the time limit specified by the instructor when the completed 'I' grade is assigned. The time limit may not extend beyond 12 months. If the instructor does not specify a time limit, then the student must meet the conditions specified by the instructor within 12 months from the day grades are due on the Academic Calendar (the last day of the term) the same term in which the 'I' grade was assigned. This limitation prevails whether or not the student maintains continuous enrollment.

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

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

Graduating Seniors

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

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

then the 'I' grade remains on the official transcript as 'I/Not Completed'.

RP Grade Policy

The "RP" symbol is used in connection with courses that extend beyond one semester. It indicates that work is in progress, but assignment of a final grade must await completion of additional work. The "RP" symbol shall be replaced with the appropriate final grade within one year of its assignment (within two years for master's culminating requirement). If no final grade is reported by the instructor within the time limit, the "RP" will be converted to "F" or "NC" on the academic transcript.

C- Grades for Prerequisite Courses

A grade of 'C-' or better is required for prerequisite courses. If a department requires a "C" or better in a prerequisite course and will not

accept a “C-“ grade, then the department must specify so in the catalog course description. This policy applies to all undergraduate-level courses.

Credit/No Credit Grading Option

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

Undergraduate Students

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

Graduate Students

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

Co-Curricular Courses

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

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

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

Grade Corrections, Deletions, and Appeals

Grade Correction Policy

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

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

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

Deletion Policy

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

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

Petitions to delete grades must be submitted within one academic year from the end of the semester in which the grade was received. After a degree has been awarded, no petitions will be considered to delete grades posted prior to that award.

Grade Appeal Procedures

The campus has a single grade appeal procedure available to students in all academic disciplines. Copies of the procedure are available in each academic department office, in the Office of the Provost and Vice President for Academic Affairs and the Office of the Vice President for Student Affairs. Information in its entirety about the grade appeal process can be accessed on the Sacramento State Web site at http://www.csus.edu/umanual/Acad%20Affairs/Grade_Appeal_Policy.htm.

Unauthorized Withdrawal Policy - WU (Withdrawal Unauthorized)

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

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

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

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

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

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

Student Complaint Hearing Policy

Vice President for Student Affairs
(916) 278-6060

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

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

Student Complaint Procedure (Complaints Regarding the CSU)

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

1. If your complaint concerns CSU's compliance with academic program quality and accrediting standards, you may present your complaint to the Western Association of Schools and Colleges (WASC) at http://www.wascsenior.org/. WASC is the agency that accredits the CSU's academic program. If you believe that your complaint warrants further attention after you have exhausted all the steps outlined by WASC, you may file an appeal with the Assistant Vice Chancellor, Academic and Student Affairs at the CSU Chancellor's Office
2. If your complaint concerns an alleged violation by CSU of any law that prohibits discrimination, harassment or retaliation based on a protected status (such as age, disability, gender (or sex), gender identity, gender expression, nationality, race or ethnicity (including color or ancestry), religion or veteran or military status), you may present your complaint as described in Section XVI (Nondiscrimination Policy).
3. If your complaint concerns an alleged violation by CSU of other state law, including laws prohibiting fraud and false advertising, you may present your complaint to the campus president or designee at nelsen@csus.edu. See Procedure for Student Complaints—Executive Order No. 1063 for details regarding the complaint requirements and complaint process: http://www.calstate.edu/eo/eo-1063.html. The president or designee will provide guidance on the appropriate campus process for addressing your particular issue.
4. Other complaints regarding the CSU may be presented to the campus dean of students, who will provide guidance on the appropriate campus process for addressing your particular issue.

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

Repeating Courses

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

1. Undergraduate students may repeat courses only if they earned grades lower than a C (C-, D+, D, D-, F, WU, NC).
2. Course repeats with 'Grade Forgiveness' (Grade Forgiveness is the circumstances in which the new grade replaces the former grade in terms of the calculation of GPA, etc.):
   a. Undergraduate students may repeat up to 16 semester-units with grade forgiveness.[2]
   b. Undergraduate students may repeat an individual course for grade forgiveness no more than one time. A course may be repeated no more than two times without petition.
   c. Grade forgiveness shall not be applicable to course for which the original grade was the result of a finding of academic dishonesty.
3. Course Repeats with 'Grades Averaged':
   Undergraduate students may repeat an additional 12 semester-units, i.e., units in addition to the 16 semester-units for which grade 'replacement' is permitted. In such instances the repeat grades shall not re-place the original grade; instead all grades (except any forgiveness grades) shall be calculated into the student's overall grade-point average.[2]
4. Departments and Colleges may not have a repeat policy that differs from the campus policy. (Note: restrictions on repeats for enrolled and declared majors, pre-majors, minors, and certification students within specific programs, represent substantive program changes and not exceptions to the repeat policy.)
5. The limits apply only to units completed at the campus (i.e., While courses taken elsewhere may be repeated here or used to replace

grades previously earned here (if the original grade was below a C), only the courses taken here will be counted towards the repeat caps).

[1] California State University, Executive Order 1037 - Grading Symbols, Minimum Standards Governing the Assignment of Grades, Policies on the Repetition of Courses, Polices on Academic Renewal, and Grade Appeals, eff. August 1, 2009, https://www.calstate.edu/eo/EO-1037.html

[2] The default sequence for applying forgiven and averaged grades is to forgive grades for repeated courses that are eligible (that have not already been repeated once) until the forgiveness cap has been reached, whereupon they will be averaged until the repeat cap is reached. Grades for a course that has already been forgiven once will be averaged. Any residual units from the forgiveness cap that are not used for forgiveness may be used for averaging, within the 28 unit total repeat cap.

Any exception to the Repeat Policy may be granted through petition to the student's major department and the Registrar's Office.

Addendum - Transfer Credit

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

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

Academic Renewal

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

Requirements and Procedure

1. Using the Academic Renewal Petition, the student must present evidence that:
   a. the level of performance was due to extenuating circumstances;
   b. one or more additional terms of enrollment would be required to complete baccalaureate requirements if the request was not approved, i.e., all degree requirements would be met except the required minimum Sacramento State and overall GPA (2.000);
   c. five years have elapsed since the most recent coursework to be disregarded was completed (e.g., Fall 2001 semester will be considered after the Fall 2006 semester);
   d. the student has completed additional academic coursework at Sacramento State subsequent to the work to be disregarded;
   e. the additional academic coursework completed conforms with the following sliding scale: 15 semester units with at least a 3.0 GPA, 30 semester units with at least a 2.500 GPA, or 45 semester units with at least a 2.000 GPA (work completed at another college/university cannot be used to satisfy this requirement); and
   f. the petitioner is currently attending Sacramento State, has filed to graduate from Sacramento State and has met with a degree evaluator from the Evaluations Office to determine if additional coursework is needed.
2. If another accredited college has acted to remove previous work from degree consideration, such action will be honored in terms of its policy. However, elimination of any work in a term by any other institution will reduce by one term the two-semester maximum that may be disregarded by Sacramento State.
3. When such action is taken, the student's permanent academic record will be annotated so that it is readily evident that no work taken during the disregarded term(s), even if satisfactory, may apply toward baccalaureate requirements. However, all work must remain legible on the record ensuring a true and complete academic history.
4. Final determination that one or more terms will be disregarded will be based on careful review of evidence by a committee, which will include the Provost and Vice President for Academic Affairs, the College Dean of the major, the University Registrar, the Associate Registrar for Graduation and Evaluation, and the Vice President for Student Affairs.

Scholastic Standards

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

Recognition of Academic Achievement

Honors List

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

Graduation with Honors

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

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

Cum Laude	3.50-3.749
Magna Cum Laude	3.75-3.899
Summa Cum Laude	3.90-4.000

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

Academic Honors Societies

University Level

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

College Level

Arts and Letters

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

Business Administration

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

Education

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

Engineering and Computer Science

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

Health & Human Services

- Alpha Phi Sigma (Criminal Justice)
- Sigma Theta Tau (Nursing)
- Phi Alpha (Social Work)

Natural Sciences & Mathematics

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

Social Sciences and Interdisciplinary Studies

- Alpha Kappa Delta (Sociology)
- Lambda Alpha (Anthropology)
- Omicron Delta Epsilon (Economics)
- Pi Sigma Alpha (Government)
- Psi Chi (Psychology)

Scholastic Standards for Continuation of Enrollment

Undergraduate Students

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

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

Graduate Students [1]

[1] See Graduate Degree Requirements/Scholarship.

Undergraduate Academic Action Categories

Good Standing

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

Academic Probation

Students whose cumulative Sacramento State grade point average or overall grade point average falls below 2.000 will be placed on academic probation. Students on probation are eligible to enroll in the subsequent semester.

Continued Probation

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

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

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

Academic Disqualification

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

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

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

Academic Dismissal

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

Administrative Probation and Administrative Disqualification

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

1. Withdrawal from all or a substantial portion of their courses in two successive terms or in any three terms.
2. Repeated failure to progress toward a degree or other program objective, when such failure is due to circumstances within the control of the student.
3. Failure to comply, after due notice, with an academic requirement or regulation.

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

Notification

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

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

Reinstatement of Disqualified Students

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

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

Deadlines to petition for immediate reinstatement are as follows:

Spring Semester: Third week of January
Fall Semester: End of June

Note: Deadlines are strictly enforced.

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

Readmission of Academically Dismissed Students

Students who are academically dismissed will not be considered for continued enrollment at the University for at least one semester depending on semester of dismissal. Academically dismissed students need to meet with an advisor for advice on developing a plan to remedy the conditions that led to dismissal.

After the mandatory interruption in enrollment, students who were academically dismissed must submit a petition for "Readmission after Dismissal" which is available on the Reinstatement website (https://www.csus.edu/student-affairs/centers-programs/student-services-center/reinstatement.html). Petitions for Readmission after Dismissal are available during the month of August in order to be reviewed for possible Spring term admission. The appeal must include a recommendation from the student's major department. A student whose appeal is granted is subject to academic review each semester until the Sacramento State GPA and overall grade point average reach the minimum standard of 2.00 for academic Good Standing. Readmitted students who fail to meet conditions specified for readmission will be academically dismissed. A second dismissal will result in a mandatory interruption of at least two years.

Note: Deadlines are strictly enforced.

Reinstatement Procedure for College of Business Administration Undergraduate Students

Business students who have been disqualified or dismissed from the University for academic reasons are no longer considered business administration students. This means that disqualified or dismissed

students will not be allowed to enroll in 100-level business courses until they have been reinstated into the business major.

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

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

Official Transcripts

Student Service Center

Office of University Registrar

Lassen Hall 1000

(916) 278-1000

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

Information to Include with a Request

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

To avoid delays in processing, include your full name, student identification number, date of birth, and previously used names. Submit the correct fee payment with written requests and specify any special handling instructions.[1] Currently enrolled students may obtain unofficial transcripts from My Sacramento State. For current information on how to order transcripts and fees, please refer to the Office of the University Registrar's Web site.

[1] See Fees and Refunds/Fees and Debts Owed to the Institution.

Schedule of Final Examinations

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

Credit Hour

As of July 1, 2011 federal law (Title 34, Code of Federal Regulations, sections 600.2 and 600.4) requires all accredited institutions to comply with the federal definition of the credit hour. For all CSU degree programs and courses bearing academic credit, the "credit hour" is defined as "the amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than:

1. One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately 15 weeks for one semester or trimester hour of credit, or ten to twelve weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time; or
2. At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution, including laboratory work, internships, practice, studio work, and other academic work leading to the award of credit hours."

A credit hour is assumed to be a 50-minute period. In courses in which "seat time" does not apply, a credit hour may be measured by an equivalent amount of work, as demonstrated by student achievement.

Credit by Examination

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

Systemwide Credit by Examination

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

Examination	Passing Score	Credit
College-Level Examination Program (CLEP)	50 - 63	Semester hours vary according to exam
International Baccalaureate Examination (IB)	4 - 7 higher level	Semester hours vary according to exam
CEEB Advanced Placement Program Examinations (AP)	3, 4, 5	Up to 6 semester hours (As recommended by the College Board)

American Chemical Society Cooperative Examination	50th percentile or above	3 semester hours
CSU English Equivalency Examination	Established annually by faculty scoring the examination	6 semester hours

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

College-Level Examination Program (CLEP)

CLEP Exam	GE Area	GE Units	Elective Units	Course Equivalencies
American Government	D-Government	3	0	None
American Literature	C-Humanities	3	0	None
Analysing and Interpreting Literature	C-Humanities	3	0	None
Biology	B2	3	0	None
Calculus	B4	3	0	None
Chemistry	B1	3	0	None
College Algebra	B4	3	0	None
College Algebra-Trigonometry	B4	3	0	None
College Mathematics	None	0	0	None
English Composition (no essay)	None	0	0	None
English Composition with Essay	None	0	0	None
English Literature	C-Humanities	3	0	None
Financial Accounting	None	0	3	None
French Level I[1]	None	0	6	None
French Level II[1]	C-Humanities	3	9	None
Freshman College Composition	None	0	0	None
German Level I[1]	None	0	6	None
German Level II[1]	C-Humanities	3	9	None
History, US I	D-History +US1	3	0	None
History US II	D-History +US1	3	0	None
Human Growth and Development	E	3	0	None
Humanities	C-Humanities	3	0	None
Informational Systems and Computer Applications	None	0	3	None
Introduction to Educational Psychology	None	0	3	None
Intro Business Law	None	0	3	None
Intro Psychology	D-Psychology	3	0	None
Intro Sociology	D-Sociology	3	0	None
Natural Science	B1 or B2	3	0	None
Pre-Calculus	B4	3	0	None
Principles of Accounting	None	0	3	None
Principles of Macroeconomics	D-Economics	3	0	ECON 1A
Principles of Management	None	0	3	None
Principles of Marketing	None	0	3	None
Principles of Microeconomi	D-Economics	3	0	ECON 1B
Social Science and History	None	0	0	None
Spanish Level I	None	0	6	None
Spanish Level II	C-Humanities	3	9	None
Trigonometry	B4	3	0	None
Western Civilization I	C-Humanities or D-History	3	0	None
Western Civilization II	D-History	3	0	None

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

French Level II	59
German Level II	60
Spanish Level II	63

[1] Credit is awarded for a maximum of one CLEP test in the same foreign language.

Official Transfer Evaluations

Office of the University Registrar
Lassen Hall 2000

(916) 278-1000

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

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

Use of Advanced Placement Credit

AP Exam	GE Area	GE Units	Elective Units	Course Equivalencies
Art History	C-Arts or C-Humanities	3	3	None
Art Studio and Drawing	None	0	6	None
Art Studio-General Portfolio	None	0	6	None
Art Studio-2D Design	None	0	6	None
Art Studio-3D Design	None	0	6	None
Biology: Score of 3	B2 & B3	4	2	None
Biology: Score of 4 or 5	B2, B3 & B5	6	0	BIO 10
Calculus AB[1]: Score of 3	B4	4	2	None
Calculus AB[1]: Score of 4 or 5	B4	4	2	MATH 30
Calculus BC[1]	B4 & B5	6	0	MATH 30 & 31
Chemistry	B1 & B3	4	2	None
Chinese Language & Culture	C-Humanities	3	3	Foreign Language Requirement
Computer Science A[1]	None	0	6	CSC 15
Computer Science AB[1]	None	0	6	CSC 15 & CSC 20
Computer Science Principles	B4	3	3	None
Economics – Macroeconom	D-Economics	3	3	ECON 1A
Economics – Microeconomics	D-Economics	3	3	ECON 1B
English Language	A2	3	3	ENGL 5
English Literature	A2 & C-Humanities	6	0	ENGL 5
Environmental Science	B1 & B3	4	2	None
French Language & Culture: Score of 3	C-Humanities	4	2	FREN 2A & Foreign Language reqmt.
French Language & Culture: Score of 4 or 5	C-Humanities	4	2	FREN 2B & Foreign Language reqmt.
French Literature	C-Humanities	3	3	None
Geography – Human	D-Geography	3	3	GEOG 2
German Language & Culture: Score of 3	C-Humanities	4	2	GERM 2A & Foreign Language reqmt.
German Language & Culture: Score of 4 or 5	C-Humanities	4	2	GERM 2B & Foreign Language reqmt.
Government – Comparative	D-Government	3	3	None
Government - U.S. Gov and Politics	D-Government	3	3	None - meets US Constitution[2]
History – U.S.[3]	D-History +US1	6	0	HIST 17A & HIST 17B
History – European	C-Humanities	6	0	HIST 4 & HIST 5
History – World	C-Humanities	6	0	HIST 50 & HIST 51
Italian Language & Culture	C-Humanities	3	3	Foreign Language reqmt.
Japanese Language & Culture (Score of 3)	C - Humanities	5	1	Japanese 1B & Foreign Language reqmt.
Japanese Language & Culture (Score of 4)	C - Humanities	4	2	Japanese 2A & Foreign Language reqmt.
Japanese Language & Culture (Score of 5)	C - Humanities	4	2	Japanese 2B & Foreign Language reqmt.
Latin: Vergil	C-Humanities	3	3	Foreign Language reqmt.
Latin: Literature	C-Humanities	3	3	Foreign Language reqmt.
Music: Listening & Literature	C-Arts	3	3	None
Music: Theory	C-Arts	3	3	None
Physics 1	B1 & B3	4	2	None

Physics 2	B1 & B3	4	2	None
Physics 1 + Physics 2: Score of 3	B1 & B3	4	2	None
Physics 1 + Physics 2: Score of 4 or 5	B1 & B3	4	2	PHYS 5A & PHYS 5B
Physics C Mechanics: Score of 3	B1 & B3	4	2	None
Physics C Mechanics: Score of 4 or 5	B1 & B3	4	2	PHYS 11A
Physics C Electricity/ Magnetism: Score of 3	B1 & B3	4	2	None
Physics C Electricity/ Magnetism: Score of 4 or 5	B1 & B3	4	2	PHYS 11C
Psychology	D-Psychology	3	3	PSYC 2
Research	None	0	6	None
Seminar	None	0	6	None
Spanish Language & Culture: With score of 3	C-Humanities	4	2	SPAN 2A & Foreign Language reqmt.
Spanish Language & Culture: With score of 4	C-Humanities	4	2	SPAN 2B & Foreign Language reqmt.
Spanish Language & Culture: With score of 5	C-Humanities	4	2	SPAN 42, 47 & Foreign Language reqmt.
Spanish Literature & Culture	C-Humanities	3	3	Foreign Language reqmt.
Statistics	B4	3	3	STAT 1

[1] If student passes more than one AP calculus or computer science, only one examination may be applied to the baccalaureate. A score of 3 or above is required.

[2] AP exam in Government does not fulfill CA Government requirement.

[3] AP exam in US History does not fulfill Race & Ethnicity requirement.

Amount and Use of Examination Credit for General Education

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

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

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

Campus Credit by Examination

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

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

Other Conditions Governing Award of Credit by Examination

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

International Baccalaureate Examination

Sacramento State Equivalencies for International Baccalaureate (IB Exams)

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

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

Use of IB Credit

IB Exam	GE Area	GE Units	Elective Units	Course Equivalents
Biology*	B2 & B3	3	3	BIO 10 & Lab
Chemistry*	B1 & B3	3	3	None
Design Technology	None	0	6	None
Economics*	D-Economics	6	0	ECON 1A & ECON 1B
Film	C-Arts	3	3	None
Geography	D-Geography	3	3	None
Global Politics	None	0	6	None
History - Africa and Middle East*	C-Humanities & D-History	6	0	HIST 7 & HIST 8
History - Americas*	C-Humanities & D-History	6	0	HIST 51 & HIST 17B
History - Europe/ME*	C-Humanities & D-History	6	0	None
Information Technology in a Global Society	None	0	6	None
Language A1 (English)	A2	3	3	ENGL 5
Language A Literature (including English)	C-Humanities	3	3	None
Language A Lang & Literature (including English)	C-Humanities	3	3	None
Language B (English)	None	0	6	None
Language B (French): Score of 4	C-Humanities	4	2	FREN 2A & Foreign Language Req
Language B (French): Score of 5-7	C-Humanities	4	2	FREN 2B & Foreign Language Req
Language B (Spanish): Score of 4	C-Humanities	4	2	SPAN 2A & Foreign Language Req
Language B (Spanish): Score of 5	C-Humanities	4	2	SPAN 2B & Foreign Language Req
Language B (Spanish): Score of 6 or 7	C-Humanities	4	2	SPAN 42, SPAN 47 & Foreign Language Req
Math	B4 & B5	6	0	MATH 24 & STAT 1
Music	None	0	6	None
Physics*	B1 & B3	4	2	None
Psychology*	D-Psychology	3	0	PSYC 2
Theatre	C-Arts	3	3	None

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

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

Waiver of Regulations

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

ADMISSION

Undergraduate Admissions (p. 36)
Graduate Admissions (p. 51)
International Admissions (p. 55)

Undergraduate Admissions

Application Information and Forms

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

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

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

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

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

Sacramento State Affirmative Action and Non-Discrimination Policy

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

For further information, or should you feel that you have been discriminated against in any one of the areas mentioned, including Title IX, Section 504 of the Rehabilitation Act of 1973 and the provisions of the Americans with Disabilities Act of 1990, as amended, contact the Office for Equal Opportunity at (916) 278-5770, email (equalopportunity@csus.edu), or visit our website (https://www.csus.edu/diversity-inclusion/division-inclusive-excellence/office-equal-opportunity/).

Social Security Number

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

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

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

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

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

Undergraduate Application Procedures

Prospective students applying for part-time or full-time undergraduate programs of study must submit a completed undergraduate application. The $70 nonrefundable application fee should be paid online at the time of application via credit card or PayPal and may not be transferred or used to apply to another term. The applications of persons denied admission to an impacted campus may be redirected to another campus at no cost, but only if the applicant is CSU eligible.

Importance of Filing Complete, Accurate, and Authentic Application Documents

Sacramento State advises prospective students that they must supply complete and accurate information on the application for admission, residency questionnaire, and financial aid forms. Further, applicants must, ***when requested***, submit authentic and official transcripts of all previous academic work attempted. Failure to file complete, accurate, and authentic application documents may result in denial of admission, cancellation of registration or academic credit, suspension, or expulsion (Section 41301, Article 1.1, Title 5, California Code of Regulations).

Impacted Programs

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

The CSU will announce during the fall filing period those campuses or programs that are impacted. Detailed information on campus and program impaction will be available at the Chancellor's Office website (http://www2.calstate.edu/attend/impaction-at-the-csu/).

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

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

Supplementary Admission Criteria

Each campus with impacted programs or class-level admission categories uses supplementary admission criteria in screening applicants. Supplementary criteria may include rank-ordering of freshman applicants based on the CSU eligibility index or rank-ordering of transfer applicants based on verification of the Associate in Arts for Transfer (AA-T) or Associate in Science Transfer (AS-T) degrees, the overall transfer grade point average (GPA), completion of specified prerequisite courses and a combination of campus-developed criteria. Applicants for freshman admission to impacted campuses or programs are required to submit scores on either the SAT or the ACT, regardless of GPA. For fall admission, applicants should take tests as early as possible, but no later than November or December of the preceding year.

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

Sacramento State Designated Impacted Programs

Biological Sciences has been officially designated as an impacted program on the Sacramento State campus. Check with the Department of Biological Sciences, (916) 278-6535, to confirm current criteria.

See Academic Programs/Biological Sciences (p. 768)

All undergraduate programs in Business Administration have been officially designated as impacted programs on the Sacramento State campus. Check with the Undergraduate Business Advising Center to confirm current criteria at (916) 278-BIZZ (2499).

See Academic Programs/Business Administration (p. 330).

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

See Academic Programs/Nursing (p. 694).

The upper division Graphic Design program has officially designated as an impacted program on the Sacramento State campus. Check with the Department of Design, (916) 278-3962, to confirm current criteria.

See Academic Programs/Graphic Design (p. 162).

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

See Academic Programs/Criminal Justice (p. 651).

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

See Academic Programs/Health Science (http://catalog.csus.edu/colleges/health-human-services/health-science/).

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

See Academic Programs/Psychology (p. 1054).

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

English Language Requirement

All undergraduate applicants whose native language is not English and who have not attended schools at the secondary level or above for at least three years full-time where English is the principal language of instruction[1] must demonstrate English language proficiency through one of the following acceptable tests.

Test	Undergraduate	Graduate
TOEFL (Test of English as a Foreign Language) is required if your native language is not English[1]	Score of 510 (paper based test)	Score of 550[1] (paper based test)
TOEFL	Score of 64 (internet based test)	Score of 80[1] (internet based)
PTE Academic	Score of 50	Score of 65[1]
IELTS (Academic)	Overall band score of 6.5	Overall band score of 7.0[1]

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

CSU minimum TOEFL standards are:

Undergraduate	61 - INTERNET, 500- PAPER
Graduate	80 - INTERNET, 550 — PAPER

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

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

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

Returning and Adult Students

Returning Students

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

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

[1] Visit csus.edu/admissions (http://www.csus.edu/admissions/) for more information

[2] See Academic Policies/Readmission of Academically Dismissed Student (p. 24)

Reservation

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

Steps in the Application Process

Application Filing Periods

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

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

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

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

Term	Applications First Accepted	Initial Filing Period
Fall Semester	October 1	October 1 - November 30
Spring Semester	August 1	August 1 - 31

Filing Period Duration

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

Application Acknowledgment

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

Transcript and Test Score Requirements

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

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

All transcripts become the property of the University and will not be released or copied. Processing of applications cannot be guaranteed unless all required documents and test scores are received during the appropriate application period. Individuals who do not file an application for admission are advised that transcripts are retained for one year only. Failure to disclose enrollment in each college or university attended constitutes grounds for denial of admission or dismissal from the University for unethical conduct. The University reserves the right to determine whether or not a record can be accepted as official.

Notification of Admission

Applicants will receive confirmation of their admission or a statement of ineligibility beginning in March for fall semesters and September for spring semesters, if they filed during the first month of the filing periods and all necessary documents have been received. If the campus has been designated an "impacted campus," notification of admission status may be delayed while supplemental criteria are applied to applications received after the initial filing period.

Information about registration, placement testing, advising, and orientation will be e-mailed to all admitted students before registration when possible. Late applicants will be considered on a space-available basis.

Hardship Petitions

The campus has established procedures for consideration of qualified applicants who would be faced with extreme hardship if not admitted. Petitioners should write the campus Admission Offices regarding specific policies governing hardship admission.

Appeal of Admission Decision

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

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

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

Freshman Requirements

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

The following section outlines the requirements for admission to Sacramento State and other CSU campuses. Prospective applicants should contact a high school or community college counselor or the Admissions and Outreach Office at California State University, Sacramento if they have further questions.

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

1. Have ***graduated*** from high school, have earned a Certificate of General Education Development (GED), or have passed the California High School Proficiency Examination (CHSPE);
2. Have a qualifying minimum Eligibility Index score (see 'Eligibility Index'); and
3. Have completed with grades of C- or better each of the courses in the comprehensive pattern of college preparatory subject requirements also known as the "a-g" pattern (see "Subject Requirements").

Honors Courses

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

Test Requirements

Freshman and transfer applicants who have fewer than 60 semester or 90 quarter units of transferable college credit must submit scores, from either the ACT or the SAT. Applicants should take the test no later than November or December. Test scores also are used for advising and placement purposes.
Students may contact:

The College Board (SAT)
Registration Unit, Box 6200
Princeton, New Jersey 08541-6200
(609) 771-7588
CollegeBoard.org (http://www.collegeboard.org)

ACT Registration Unit
P.O. Box 414
Iowa City, Iowa 52240
(319) 337-1270
ACT.org (http://www.act.org)

The CSU uses only the ACT composite score, *the mathematics and Evidence-Based Reading and Writing scores on the new SAT* in its admission eligibility equation. The SAT or ACT writing scores are not currently used by CSU campuses.

Sacramento State requires all first-year student applicants to submit an ACT or SAT score, regardless of high school grade point average.

Subject Requirements

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

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

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

Advanced Placement (AP) Exams and Advanced Standing Credit

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

- Students may be granted up to 6 units for each Advanced Placement (AP) examination for which a score of 3, 4, or 5 is earned.
- Transferable college courses completed as a high school student will be evaluated for possible college credit upon receipt of an official college transcript. For the Official Transfer Evaluations click here (p. 24).

Foreign Language Subject Requirements

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

International Baccalaureate (IB)

Sacramento State recognizes completion of the International Baccalaureate (IB) program as satisfying the college preparatory subject requirements for admission.[1] The applicant's high school GPA and score on the ACT or SAT will also be used in determining eligibility for admission.

[1] See Academic Policies/Credit by Examination/Sacramento State Equivalencies for IB Exams (p. 24).

Eligibility Index

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

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

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

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

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

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

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

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

Refer to Application to Sacramento State/Undergraduate/Impacted Programs (p. 24).

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

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

GPA	ACT Score	New SAT Score
2.99	10	560
2.98	10	570
2.97	10	580
2.96	11	590
2.95	11	590
2.94	11	600
2.93	11	610
2.92	11	620
2.91	12	630
2.90	12	630
2.89	12	640
2.88	12	650
2.87	12	660
2.86	13	670
2.85	13	670
2.84	13	680

2.83	13	690
2.82	13	700
2.81	14	710
2.80	14	710
2.79	14	720
2.78	14	730
2.77	14	740
2.76	15	750
2.75	15	750
2.74	15	760
2.73	15	770
2.72	15	780
2.71	16	790
2.70	16	790
2.69	16	800
2.68	16	810
2.67	16	820
2.66	17	830
2.65	17	830
2.64	17	840
2.63	17	850
2.62	17	860
2.61	18	870
2.60	18	870
2.59	18	880
2.58	18	890
2.57	18	900
2.56	19	910
2.55	19	910
2.54	19	920
2.53	19	930
2.52	19	940
2.51	20	950
2.50	20	950
2.49	20	960
2.48	20	970
2.47	20	980
2.46	21	990
2.45	21	990
2.44	21	1000
2.43	21	1010
2.42	21	1020
2.41	22	1030
2.40	22	1030
2.39	22	1040
2.38	22	1050
2.37	22	1060
2.36	23	1070
2.35	23	1070
2.34	23	1080
2.33	23	1090
2.32	23	1100
2.31	24	1110
2.30	24	1110
2.29	24	1120
2.28	24	1130
2.27	24	1140
2.26	25	1150
2.25	25	1150
2.24	25	1160
2.23	25	1170
2.22	25	1180
2.21	26	1190
2.20	26	1190
2.19	26	1200
2.18	26	1210
2.17	26	1220
2.16	27	1230
2.15	27	1230
2.14	27	1240
2.13	27	1250
2.12	27	1260
2.11	28	1270
2.10	28	1270
2.09	28	1280
2.08	28	1290
2.07	28	1300
2.06	29	1310
2.05	29	1310
2.04	29	1320
2.03	29	1330
2.02	29	1340
2.01	30	1350
2.00	30	1350

A GPA below 2.0 does not qualify for regular admission

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

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

A GPA of 3.61 and above qualifies for any score in ACT or SAT.[1]

GPA	ACT Score	New SAT Score
3.60	13	690
3.58	13	690
3.56	13	730
3.54	14	740
3.52	15	760
3.50	15	780
3.48	15	790
3.46	15	810
3.44	16	820
3.42	16	840

3.40	17	860
3.38	17	870
3.36	17	890
3.34	18	900
3.32	18	920
3.30	19	930
3.28	19	950
3.26	19	970
3.24	20	980
3.22	20	1000
3.21	20	1010
3.19	21	1020
3.17	21	1040
3.15	22	1050
3.13	22	1070
3.11	22	1090
3.09	23	1100
3.07	23	1120
3.05	24	1130
3.03	24	1150
3.01	24	1170
2.99	25	1180
2.97	25	1200
2.95	26	1210
2.93	26	1230
2.91	26	1250
2.89	27	1260
2.87	27	1280
2.85	28	1290
2.83	28	1310
2.82	28	1320
2.80	29	1330
2.78	29	1350
2.76	29	1370
2.74	30	1380
2.72	30	1400
2.70	31	1410
2.68	31	1430
2.66	31	1450
2.64	32	1460
2.62	32	1480
2.60	33	1490
2.58	33	1510
2.56	33	1530
2.54	34	1540
2.52	34	1530
2.50	35	1570
2.48	35	1590
2.46	35	---
ACT - A GPA below 2.45 does not qualify for admission		
SAT - A GPA below 2.47 does not qualify for admission		

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

Subject Requirements Substitution for Students with Disabilities

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

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

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

Provisional Admission

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

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

Special Categories

Adult Students

As an alternative to regular admission criteria, an applicant who is twenty-five (25) years of age or older may be considered for admission as an adult student if he or she meets all of the following conditions:

1. Possesses a high school diploma (or has established equivalence through either the General Educational Development or California High School Proficiency Examinations).

2. Has not been enrolled in college as a full-time student for more than one term during the past five years.
3. If there has been any college attendance in the last five years, has earned a 2.00 GPA or better in all college work attempted.

Consideration will be based upon a judgment as to whether the applicant is as likely to succeed as a regularly admitted freshman or transfer student and will include an assessment of basic skills in the English language and mathematical computation.

Educational Opportunity Program

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

[1] See Centers for Academic Support/EOP (p. 24).

Veterans

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

High School Students

Office of Admissions and Outreach
Lassen Hall 1102

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

These programs include:

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

Students accepted into these programs qualify for reduced fees.

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

Applicants Not Regularly Eligible

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

Admissions Appeal-Section 89030.7 of the California Education Code requires that the California State University establishes specific requirements for appeal procedures for a denial of admission. Each CSU campus must publish appeal procedures for applicants denied admission to the University. The procedure is limited to addressing campus decisions to deny an applicant admission to the University. Admissions appeal procedures must address the basis for appeals, provide 15 business days for an applicant to submit an appeal, stipulate a maximum of one appeal per academic term, provide specific contact information for the individual or office to which the appeal should be submitted, and indicate a time estimate for when the campus expects to respond to an appeal. The appeal procedures must be included in all denial of admission notifications to students, and must also be published on the campus website. Visit the 'I was not admitted' link at the Admissions and Outreach website (http://www.csus.edu/admissions/) for more information.

Reservation

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

Transfer Student Preparation

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

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

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

Acceptance of Transfer Courses

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

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

General Education Courses

The CSU system has authorized California community colleges and other approved colleges to designate "transferable" courses planned for use in a four-year baccalaureate program. In addition, they have jointly designated courses that may be used to certify a portion of the CSU General Education objectives to a maximum of 39 semester units. Sacramento State will apply courses completed at a California

community college toward the CSU General Education objectives as listed on the community college certification form.

Students may have their lower division General Education courses certified by a California community college as meeting either the CSU GE Breadth Requirements or the Intersegmental General Education Transfer Core Curriculum (IGETC) in partial completion of the General Education requirements for the baccalaureate degree.[1]

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

[1] See General Education Policies/Transfer Students.

Lower Division Major Prerequisites

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

Articulation Agreements

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

Transfer Centers

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

Transfer Student Assistance

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

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

Undergraduate Transfer Admission Requirements

Transfer Policies of CSU Campuses

Most commonly, college-level credits earned from an institution of higher education accredited by a regional accrediting agency are accepted for transfer to campuses of the CSU; however, authority for decisions regarding the transfer of undergraduate credits is delegated to each CSU campus.

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

"Certification" is the official notification from a California Community College or authorized institution that a transfer student has completed courses fulfilling lower-division general education requirements. The CSU GE-Breadth and the Intersegmental General Education Transfer Curriculum (IGETC) certification course lists for particular community colleges can be accessed at Assist.org (http://www.assist.org).

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

Transfer Requirements

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

Lower Division Transfers Requirements

Due to increased enrollment demands, most CSU campuses do not admit lower-division transfer applicants. Sacramento State is not currently accepting admission applications from lower-division transfers.

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

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

California resident transfer applicants with fewer than 60 semester or 90 quarter units must:

- Have a cumulative grade point average of 2.0 (C) or better in all transferable units attempted;
- Have completed, with a grade of C- or better, a course in written communication and a course in mathematics or quantitative

reasoning at a level satisfying CSU General Education Breadth Area A2 and B4 requirements, respectively;
- Be in good standing at the last institution attended; and
- Meet any one of the following eligibility standards.

Transfer Based on Current Admission Criteria

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

Transfer Based on High School Eligibility

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

Transfer Based on Making Up Missing Subjects

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

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

Upper Division Transfers Requirements

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

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

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

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

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

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

Provisional Admission

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

Local Area for Admission

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

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

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

Wait List

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

Special Admission Categories [1]

[1] Refer to Admission to Sacramento State (p. 24)/Special Categories. Veterans also refer to Application to Sacramento State/CSU Impacted Programs/Supplemental Criteria.

Admission of Auditors for Undergraduate Courses

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

Impacted Programs

To obtain the most current information on impacted programs and supplemental criteria, please contact the Office of Admissions and Outreach.

Catalog Rights for Degree Requirements

Transfer students may choose Sacramento State requirements in effect

1. at the time they began their college study at a California community college or a CSU,
2. at the time they entered Sacramento State, or
3. at the time they graduate from Sacramento State, provided they maintain attendance in college.[1]

[1] See Degree Requirements (p. 24)/Catalog Rights.

Reservation

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

Evaluation of Transfer Credit

Allowance of Transfer Credit from Accredited Colleges and Universities

Generally, students will be granted credit for baccalaureate level courses successfully completed at regionally accredited two or four-year colleges.

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

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

Advanced Placement Examinations

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

Use of Advanced Placement Credit

AP Exam	GE Area	GE Units	Elective Units	Course Equivalencies
Art History	C-Arts or C-Humanities	3	3	None
Art Studio and Drawing	None	0	6	None
Art Studio-General Portfolio	None	0	6	None
Art Studio-2D Design	None	0	6	None
Art Studio-3D Design	None	0	6	None
Biology: Score of 3	B2 & B3	4	2	None
Biology: Score of 4 or 5	B2, B3 & B5	6	0	BIO 10
Calculus AB:[1] Score of 3	B4	4	2	None
Calculus AB:[1] Score of 4 or 5	B4	4	2	MATH 30
Calculus BC[1]	B4 & B5	6	0	MATH 30 & 31
Chemistry	B1 & B3	4	2	None
Chinese Language & Culture	C-Humanities	3	3	Foreign Language Requirement
Computer Science A[1]	None	0	6	CSC 15
Computer Science AB[1]	None	0	6	CSC 15 & CSC 20
Computer Science Principles	B4	3	3	None
Economics – Macroeconom	D-Economics	3	3	ECON 1A
Economics – Microeconomics	D-Economics	3	3	ECON 1B
English Language	A2	3	3	ENGL 5
English Literature	A2 & C-Humanities	6	0	ENGL 5
Environmental Science	B1 & B3	4	2	None
French Language & Culture: Score of 3	C-Humanities	4	2	FREN 2A & Foreign Language reqmt.
French Language & Culture: Score of 4 or 5	C-Humanities	4	2	FREN 2B & Foreign Language reqmt.
French Literature	C-Humanities	3	3	None
Geography – Human	D-Geography	3	3	GEOG 2
German Language & Culture: Score of 3	C-Humanities	4	2	GERM 2A & Foreign Language reqmt.
German Language & Culture: Score of 4 or 5	C-Humanities	4	2	GERM 2B & Foreign Language reqmt.
Government – Comparative	D-Government	3	3	None
Government - U.S. Gov and Politics	D-Government	3	3	None - meets US Constitution[2]
History – U.S.[3]	D-History +US1	6	0	HIST 17A & HIST 17B
History – European	C-Humanities	6	0	HIST 4 & HIST 5

History – World	C-Humanities	6	0	HIST 50 & HIST 51
Italian Language & Culture	C-Humanities	3	3	Foreign Language reqmt.
Japanese Language & Culture	C-Humanities	3	3	Foreign Language reqmt.
Latin: Vergil	C-Humanities	3	3	Foreign Language reqmt.
Latin: Literature	C-Humanities	3	3	Foreign Language reqmt.
Music: Listening & Literature	C-Arts	3	3	None
Music: Theory	C-Arts	3	3	None
Physics 1	B1 & B3	4	2	None
Physics 2	B1 & B3	4	2	None
Physics 1 + Physics 2: Score of 3	B1 & B3	4	2	None
Physics 1 + Physics 2: Score of 4 or 5	B1 & B3	4	4	PHYS 5A & PHYS 5B
Physics C Mechanics: Score of 3	B1 & B3	4	2	None
Physics C Mechanics: Score of 4 or 5	B1 & B3	4	2	PHYS 11A
Physics C Electricity/ Magnetism: Score of 3	B1 & B3	4	2	None
Physics C Electricity/ Magnetism: Score of 4 or 5	B1 & B3	4	2	PHYS 11C
Psychology	D-Psychology	3	3	PSYC 2
Research	None	0	6	None
Seminar	None	0	6	None
Spanish Language & Culture: With score of 3	C-Humanities	4	2	SPAN 2A & Foreign Language reqmt.
Spanish Language & Culture: With score of 4	C-Humanities	4	2	SPAN 2B & Foreign Language reqmt.
Spanish Language & Culture: With score of 5	C-Humanities	4	2	SPAN 42, 47 & Foreign Language reqmt.
Spanish Literature & Culture	C-Humanities	3	3	Foreign Language reqmt.
Statistics	B4	3	3	STAT 1

[1] If student passes more than one AP calculus or computer science, only one examination may be applied to the baccalaureate. A score of 3 or above is required.

[2] AP exam in Government does not fulfill CA Government requirement.

[3] AP exam in US History does not fulfill Race & Ethnicity requirement.

Credit For Instruction in Non-Collegiate Instruction

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

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

Credit For Prior Learning

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

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

Transfer Credit From Overseas Institutions

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

Nontraditional Credits

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

1. Baccalaureate-level course credit certified by the Defense Activities in Nontraditional Education Support (DANTES). The amount of credit is limited to 24 semester units, the limit on the number of extension/ correspondence course units that can be applied toward the degree.
2. Standardized examinations designated for system-wide credit by the Chancellor of the California State University. The names of these examinations, the passing scores required, and the number of semester units to be awarded is listed under system wide Credit by Examination.[1] The total amount of examination credit applied to the baccalaureate degree cannot exceed 30 semester units.

3. The Advanced Placement Examinations of the College Entrance Examination Board on which the student receives a score of 3, 4, or 5. Up to six semester units may be awarded for each Advanced Placement Examination passed.
4. Credit for basic training and commissions in the military service. The American Council on Education's Commission on Education Credit and Credentials recommends the number of units allowed for each branch.
5. Commissions held while in the military service: 12 upper division units.
6. Civilian and military courses and schools recommended for credit by the American Council on Education's Commission on Education Credit and Credentials.

[1] See Academic Policies (p. 24)/system wide Credit by Examination.

Additional Degree Credits Allowed

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

Limitations on the Transfer of Credit

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

1. A maximum of 70 hours transferred from two-year or community Colleges.
2. A maximum of 30 hours of examination credit.
3. A maximum of 24 hours in extension and correspondence (transfer, Sacramento State or in combination).
4. A maximum of 30 hours of any combination of correspondence, extension, and military service credit.
5. A maximum of 24 units in Special Sessions

Transfer Grade Policies

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

1. The grading policy of the regionally accredited institution where credit was earned is honored by accepting at face value all official transcript entries, including those:
   a. reflecting academic forgiveness actions;
   b. reflecting acceptance of grade point remediation for repeated courses; and
   c. regarding "incomplete" grades (e.g., "I", "IS", and "IU").
2. All transfer courses graded Pass/No Pass or Credit/No Credit are computed at neutral value, except in those cases where the specific grading symbol is identified by the source institution as equivalent to a grade less than "C" in which case it will be taken at face value.
3. All transfer course grades or symbols used to designate unsatisfactory, failing, or non-passing work at time of withdrawal such as "UW", "WU", or "WF" are evaluated as failing grades "F" unless otherwise defined by the source institution.

Official Transfer Evaluations

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

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

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

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

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

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

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

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

The Early Start Program gives students the opportunity to earn college credit in written communication and mathematics/ quantitative reasoning the summer before their first term.

Assessments and Placement for GE Written Communications

Has Fulfilled the GE Subarea A2 English Requirement

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

Advanced Placement (AP) Test

- 3 or above on AP English Language and Composition
- 3 or above on AP English Literature and Composition

College Transfer Coursework

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

Placement in a GE Subarea A2 English Course

The student has met examination standards and/or multiple measures-informed standards via one of the criteria below:

English CAASPP/EAP Test:

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

English New SAT Test[1]:

- 550 or above
- 510 – 540 and completed 12th grade approved year-long English course (CSU ERWC, AP, Weighted Honors English) with grade of C- or better English

ACT Test:

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

High School Courses and GPA:

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

Placement in a Supported GE Subarea A2 English Course

The student has met examination standards and/or multiple measures-informed standards via one of the criteria below:

English New SAT Test[1]:

- 510 – 540 and 4 or more years of high school English

ACT Test:

- 19-21 and 4 or more years of high school English

High School Courses and GPA:

- Weighted GPA 3.0 or above and 4 or more years of high school English

[1] SAT score conversion for scores prior to March 2016 (old SAT): https://collegereadiness.collegeboard.org/sat-scoring-before-march-2016 (https://collegereadiness.collegeboard.org/sat-scoring-before-march-2016/)

Placement in a Supported GE Subarea A2 English Course and Participation in the Early Start Program Required

Based on multiple measures evaluation, student needs additional academic support including participation in the Early Start Program. Visit the Early Start Page to learn about the Early Start Program.

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

Has Fulfilled the GE Subarea B4 Math/Quantitative Reasoning Requirement

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

Advanced Placement (AP) Test:

- 3 or above on AP Calculus AB
- 3 or above on AP Calculus BC
- 3 or above on AP Statistics
- 3 or above on AP Computer Science Principles

International Baccalaureate (IB) Test:

- 4 or above on Math Higher Level (HL)

College Level Examination Program (CLEP):

- 50 or above on: Calculus, College Algebra, College Algebra-Trigonometry, Pre-Calculus or Trigonometry

College Transfer Coursework:

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

Placement in a GE Subarea B4 Math/Quantitative Reasoning Requirement

The student has met examination standards and/or multiple measures-informed standards via one of the following criteria:

CAASPP/EAP Math Exam:

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

New SAT Math Test[1]:

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

ACT Math Test:

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

High School Courses and GPA:

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

- Weighted high school GPA 3.5 or above and 4 or more years of high school math or quantitative reasoning

[1] SAT score conversion for scores prior to March 2016 (old SAT): https://collegereadiness.collegeboard.org/sat-scoring-before-march-2016https://collegereadiness.collegeboard.org/sat-scoring-before-march-2016 (https://collegereadiness.collegeboard.org/sat-scoring-before-march-2016/)

Placement in a Supported GE Subarea B4 Math/ Quantitative Reasoning Requirement

The student has met examination standards and/or multiple measures-informed standards via one of the criteria below:

High School GPA:

- Weighted math GPA 3.3 or above
- Weighted high school GPA 3.0 or above

Placement in a Supported GE Subarea B4 Math/ Quantitative Reasoning Requirement and Participation in the Early Start Program Required

Based on multiple measures evaluation, student needs additional academic support including participation in the Early Start Program. Visit the Early Start page to learn about the Early Start Program.

Assessments and Placement for GE Mathematics/ Quantitative Reasoning: Pre-STEM/STEM and Other Math- Intensive Majors

Has Fulfilled the GE Subarea B4 Math/Quantitative Reasoning Requirement

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

Advanced Placement (AP) Test:

- 3 or above on AP Calculus AB
- 3 or above on AP Calculus BC
- 3 or above on AP Statistics
- 3 or above on AP Computer Science Principles

International Baccalaureate (IB) Test:

- 4 or above on Math Higher Level (HL)

College Level Examination Program (CLEP):

- 50 or above on: Calculus, College Algebra, College Algebra-Trigonometry, Pre-Calculus or Trigonometry

College Transfer Coursework:

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

Placement in a GE Subarea B4 Math/Quantitative Reasoning Requirement

The student has met examination standards and/or multiple measures-informed standards via one of the criteria below:

CAASPP/EAP Math Exam:

- Standard Exceeded
- Standard Met and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better

New SAT Math Test[1]:

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

ACT Math Test:

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

High School Courses and GPA:

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

[1] SAT score conversion for scores prior to March 2016 (old SAT): https://collegereadiness.collegeboard.org/sat-scoring-before-march-2016https://collegereadiness.collegeboard.org/sat-scoring-before-march-2016 (https://collegereadiness.collegeboard.org/sat-scoring-before-march-2016/)

Placement in a Supported GE Subarea B4 Math/ Quantitative Reasoning Requirement

The student has met examination standards and/or multiple measures-informed standards via the criteria below:

High School Math GPA:

- Weighted math GPA 3.3 or above

Placement in a Supported GE Subarea B4 Math/ Quantitative Reasoning Requirement and Participation in the Early Start Program Required

Based on multiple measures evaluation, student needs additional academic support including participation in the Early Start Program. Visit the Early Start page to learn about the Early Start Program.

Early Start Program

The goal of the Early Start Program (ESP) is to:

- Better prepare students in written composition and mathematics/ quantitative reasoning before the fall term of freshman year, improving students' chances of successful completion of a baccalaureate degree.
- If required to participate in ESP, as determined by multiple measures, students will begin in the summer before the start of the freshman year.
- For general information about ESP including fees and course listings, visit csustudentsuccess.org/earlystart. Students are encouraged to visit the campus website for ESP information once admitted.
- Eligible financial aid applicants with an Estimated Family Contribution (EFC) of $5,000 or less will be eligible for waiver of the per unit ESP

fee. For more information on assessments, placements and the Early Start Program, please visit www.csustudentsuccess.org

Directed Self Placement (DSP)

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

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

The Semester-Long Program—English 5 or 5M[1]: Accelerated Academic Literacies. Intensive, semester-long course to help students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth—students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses. 3 units.

The Year-Long "Stretch" Program—English 10/11 or 10M/11M[1] Academic Literacies I & II. Year-long course to help students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth—students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses. 6 units.

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

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

Additional Course Placement Examination Requirements

Chemistry

Sequoia Hall 156
(916) 278-6684

Students enrolling in Chemistry 1A are required to take a General Chemistry Placement Examination. This examination must be taken in the first laboratory period during the first week of the semester.

Writing Placement for Juniors (WPJ) exam

All students must satisfy the Graduation Writing Assessment Requirement (GWAR) in order to graduate. The Writing Placement for Juniors (WPJ) exam is a prerequisite for all Writing Intensive courses. For additional information, please visit the GWAR website (https://www.csus.edu/undergraduate-studies/writing-program/) or call the Writing Programs Office in the English Department at (916) 278-6409.

Foreign Language

Mariposa Hall 2051
(916) 278-6333

Sacramento State students who continue their study of a foreign language begun elsewhere must enroll in a course that does not duplicate previous college credits received. A placement test will be given prior to registration or at the first class meeting. If given prior to registration, it will be listed in the Class Schedule. Adjustment of registration, if necessary, will be made in accordance with the results of the placement exam.

Students who have begun the study of any foreign language in high school and who will enroll before taking the placement test may use the following as a guide for their first enrollment:

1A - if the student has less than one year of satisfactory high school study

1B - if the student has one year but less than two years of high school study

1C - if students have completed up to two years of high school study or one year of college French or German or Spanish with failing or unsatisfactory achievement or evaluation; and if students have had an extended interruption of beginning or intermediate formal language study

2A - if the student has two but less than three years of high school study

2B - if the student has three years of high school study

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

Graduate Admissions

Office of Graduate Studies

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

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

Degrees Offered

Master of Arts

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

Master of Science

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

Master of Business Administration

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

Master of Music

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

Master of Public Health

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

Master of Public Policy and Administration

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

Master of Social Work

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

Master of Arts or Master of Science in Special Major

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

Ed.S. in School Psychology

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

Ed.D Educational Leadership

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

1. Transformational Leadership,
2. Critical Policy Analysis and Action, and
3. Informed Decision-Making.

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

Doctor of Audiology

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

Doctor of Physical Therapy

The Doctor of Physical Therapy (DPT) is a three-year program dedicated to graduating professional, evidence-informed physical therapists who have the knowledge and skills to provide patient care in any practice environment. The program's curriculum is designed to provide a foundation in the science and art of physical therapy, one that engages students in clinical reasoning through problem-solving within the context of patient cases, both actual and simulated. In addition, students

complete 36 weeks of full-time internships at three locations to learn by doing in their respective practice settings. The program is fully accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE) and graduates are eligible to take the national licensure examination.

Ph.D. Public History

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

Admission Requirements

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

Master's and Post-Baccalaureate Program Admissions

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

- General Requirements — The minimum requirements for admission to master's and post-baccalaureate studies at a California State University campus are in accordance with university regulations as well as Title 5, Chapter 1, Subchapter 3 of the California Code of Regulations.
- Specifically, a student shall at the time of enrollment:

    1. Have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association, or shall have completed equivalent academic preparation as determined by appropriate campus authorities;
    2. Be in good academic standing at the last college or university attended;
    3. Have earned a grade point average of at least 2.5 on the last degree completed by the candidate or have attained a grade point average of at least 2.5 (A=4.0) in the last 60 semester (90 quarter) units attempted; and
    4. Satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate campus authorities may prescribe. In unusual circumstances, a campus may make exceptions to these criteria.

Doctoral Program Admissions

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

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

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

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

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

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

authority. Only those students who continue to demonstrate a satisfactory level or scholastic, professional, and clinical competence shall be eligible to continue in Doctor of Physical Therapy programs.

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

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

Graduate Programs Application Procedures

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

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

Application Filing Periods

Term	Applications First Accepted	Initial Filing Period
Fall Semester	October 1	visit: www.csus.edu/graduate-studies (http://www.csus.edu/graduate-studies/)
Spring Semester	August 1	August 1- September 15
Summer Semester (Most campuses do not admit students to summer term)		

Filing Period Duration

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

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

Categories of Admission and Classification

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

- **Graduate Classified** –To pursue a graduate degree, applicants are required to fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus.
- **Graduate Conditionally Classified** –Persons wishing to enroll in a credential or certificate program will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus.
- **Post-Baccalaureate Classified, e.g., admission to an education credential program** - Persons wishing to enroll in a credential or certificate program will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus.
- **Post-Baccalaureate Unclassified** – To enroll in undergraduate courses as preparation for advanced degree programs or to enroll in graduate courses for professional or personal growth, applicants must be admitted as post-baccalaureate unclassified students. By meeting the general requirements, applicants are eligible for admission as post-baccalaureate unclassified students. Admission in this status does not constitute admission to, or assurance of consideration for admission to, any graduate degree or credential program. (Most CSU campuses do not offer admission to unclassified post-baccalaureate students).

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

Returning Post-baccalaureate, Master, Doctoral Students

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

Second Bachelor's Degree

Applicants seeking a second bachelor's degree should submit the undergraduate application for admission unless specifically requested to do otherwise. Admission is limited to a few select programs for students who have earned a bachelor's degree from a regionally accredited institution with a GPA of 2.5 or higher in the last 60 semester units of baccalaureate or graduate level courses at Sacramento State. Students admitted in post-baccalaureate standing (unclassified) must meet residence and other specified requirements.[1]

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

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

1 Refer to Baccalaureate Degree Requirements (p. 74)/Second Bachelor's Degree.

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

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

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

Graduate-Post-Baccalaureate English Language Requirement

All graduate and post-baccalaureate applicants, regardless of citizenship, whose native language is not English and whose preparatory education was principally in a language other than English must demonstrate competence in English. Those who do not possess a bachelor's degree from a postsecondary institution where English is the principal language of instruction must receive a minimum score of ***550*** on the Test of English as a Foreign Language (TOEFL). Some programs require a higher score. Several CSU campuses may use alternative methods for assessing fluency in English including Pearson Test of English Academic (PTE Academic), the International English Language Testing System (IELTS) and the International Test of English Proficiency (ITEP).

Refer to Sacramento State/International Students/TOEFL Requirement (http://www.csus.edu/gradstudies/futurestudents/applicantswithforeigndocuments/languagetesting.html).

Advising

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

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

International Admissions

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

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

(916)278-6686

www.csus.edu/international-programs-global-engagement/ (https://www.csus.edu/international-programs-global-engagement/)

The CSU must assess the academic preparation of foreign students. For this purpose, "foreign students" include those who hold U.S. temporary visas as students, exchange visitors or in other nonimmigrant classifications.

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

English Language Proficiency Requirement

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

Test	Undergraduate	Graduate
TOEFL (Test of English as a Foreign Language) is required if your native language is not English[1]	Score of 510 (paper based test)	Score of 550[1] (paper based test)
TOEFL	Score of 64 (internet based test)	Score of 80[1] (internet based)
IELTS (Academic)	Overall band score of 6.0	Overall band score of 6.5[1]
PTE Academic	Score of 50	Score of 65[1]

Those who have graduated from an accredited secondary or four-year U.S. college or university where English is the primary language of instruction or who come from countries where English is the primary language need not submit an English language proficiency test.[1]

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

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

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

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

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

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

International Graduate Admission Requirements (https://www.csus.edu/international-programs-global-engagement/application-admissions-process/graduate.html)

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

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

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

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

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

Additional Information for International Applicants

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

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

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

FINANCIAL AND REGISTRATION INFORMATION

Fees and Refunds (p. 57)
Financial Aid (p. 63)
Registration (p. 68)

Fees and Refunds

Tuition & Registration Fees

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

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

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

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

The following reflects applicable system wide fees for semester campuses that were authorized by the Board of Trustees at their March 2017 meeting. ***These rates are subject to change.***

Mandatory Resident Tuition Fees and Campus Fees: Fall 2019/Spring 2020

Undergraduates

	0-6 Units	More than 6 Units
Tuition Fees	$1,665	$2,871
Associated Students Inc. Fee	$71.50	$71.50
Intercollegiate Athletics/Spirit Leaders Fee	$150.00	$150.00
Transportation Fee	$22.00	$22.00
Recreational Sports Fee	$15.50	$15.50
University Union/ WELL Fee	$393.00	$393.00
Health Facilities Fee	$24.00	$24.00
Instructional Related Activity Fee	$8.00	$8.00
Student Health and Counseling Services Fee	$126.00	$126.00
Hornet Newspaper Fee	$3.00	$3.00
Total	$2,478.00	$3,684.00

Credential Program

	0-6 Units	More than 6 Units
Tuition Fees	$1,932	$3,330
Associated Students Inc. Fee	$71.50	$71.50
Intercollegiate Athletics/Spirit Leaders Fee	$150.00	$150.00
Transportation Fee	$22.00	$22.00
Recreational Sports Fee	$15.50	$15.50
University Union Fee	$393.00	$393.00
Health Facilities Fee	$24.00	$24.00
Instructional Related Activity Fee	$8.00	$8.00
Student Health and Counseling Services Fee	$126.00	$126.00
Hornet Newspaper Fee	$3.00	$3.00
Total	$2,745.00	$4,143.00

Post-Baccalaureate [1]

	0-6 Units	More than 6 Units
Tuition Fees	$2,082	$3,588
Associated Students Inc. Fee	$71.50	$71.50
Intercollegiate Athletics/Spirit Leaders Fee	$150.00	$150.00
Transportation Fee	$22.00	$22.00
Recreational Sports Fee	$15.50	$15.50
University Union Fee	$393.00	$393.00
Health Facilities Fee	$24.00	$24.00
Instructional Related Activity Fee	$8.00	$8.00
Student Health and Counseling Services Fee	$126.00	$126.00
Hornet Newspaper Fee	$3.00	$3.00
Total	$2,895.00	$4,401.00

[1] Post-Baccalaureate classification includes 2nd Bachelors.

Education Doctorate

	0-21 Units
Tuition Fees	$5,919
Associated Students Inc. Fee	$71.50
Intercollegiate Athletics/Spirit Leaders Fee	$150.00
Transportation Fee	$22.00

Recreational Sports Fee	$15.50
University Union Fee	$393.00
Health Facilities Fee	$24.00
Instructional Related Activity Fee	$8.00
Student Health and Counseling Services Fee	$126.00
Hornet Newspaper Fee	$3.00
Total	$6,732.00

Doctorate of Physical Therapy

	0-21 Units
Tuition Fees	$8,598
Associated Students Inc. Fee	$71.50
Intercollegiate Athletics/Spirit Leaders Fee	$150.00
Transportation Fee	$22.00
Recreational Sports Fee	$15.50
University Union Fee	$393.00
Health Facilities Fee	$24.00
Instructional Related Activity Fee	$8.00
Student Health and Counseling Services Fee	$126.00
Hornet Newspaper Fee	$3.00
Total	$9,411.00

Doctorate of Audiology

	0-21 Units
Tuition Fees	$7371.00
Associated Students Inc. Fee	$71.50
Intercollegiate Athletics/Spirit Leaders Fee	$150.00
Transportation Fee	$22.00
Recreational Sports Fee	$15.50
University Union Fee	$393.00
Health Facilities Fee	$24.00
Instructional Related Activity Fee	$8.00
Student Health and Counseling Services Fee	$126.00
Hornet Newspaper Fee	$3.00
Total	$8184.00

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

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

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

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

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

Definition of Mandatory Campus Fees

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

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

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

Transportation Fee - To provide support for alternative transportation for students including free ridership on Sacramento Regional Transit and its affiliates.

Recreational Sports Fee - To provide support to Recreational Sports Programs. This includes Sports Clubs and Intramural Programs.

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

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

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

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

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

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

- Continuing students registering in the initial registration period will have fees due mid-June for the Fall term, and early January for the Spring term.
- New transfer students will have fees due mid-July for the Fall term, and mid-January for the Spring term in their first semester.

- New freshmen will have fees due mid-August for the Fall term, and mid-January for the Spring term in their first semester.
- Those registering during late registration will have fees due the Friday before the first day of instruction.
- Those registering in the first two weeks of instruction will have fees due by the end of the second week.
- Those registering in the third and fourth weeks should plan to prepay before registering.
- If you will be signing up for the Installment Payment Plan (IPP), your down payment will be due by your original due date.

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

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

PAYMENT METHODS:

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

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

Summer Term

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

Installment Payment Plans

1. Tuition Fees Installment Payment Plan
   - The tuition fees installment plan allows tuition fees and mandatory campus fees to be paid in four installments. The down payment is due on your original due date and represents the campus fees (Instructional Related Activities, Associated Students Inc. Programs, Intercollegiate Athletics/Spirit Leaders, Recreational Sports, Transportation, Health Facilities, University Union/WELL, Student Health and Counseling Services, and Hornet Newspaper Fee) and a one-time $33.00 non-refundable finance charge.
   - The balance of tuition fees are due in three installments – September, October, and November in the Fall; and February, March, and April in the Spring.
   - You may not use the IPP if you have a fee waiver or a third-party sponsor. However, you may request a payment plan for the balance of your fees from the Bursar's Office.
   - If you have registered late, you may owe as much as the first two payments to avoid being dropped from your classes.
   - Late installment payments will incur a fee of $15 each time you are late.
   - Missed payments (or rejected checks) may result in: being dropped from your classes, forfeiture of your down payment, a hold preventing your use of the Installment Payment Plans for all subsequent semesters, and a hold on your records.
   - If you are dropped from your classes, you may still be required to pay a pro-rated portion of your registration fees.
   - If you re-enroll in the same term you may be charged a $100 re-enrollment fee, a $25 late registration fee and a $15 late payment fee. Re-enrollment eligibility after the term begins may be subject to instructor approval, and require payment of tuition fees IN FULL with guaranteed funds (cash, cashier's check or money order), prior to being added back into your courses.
   - Failure to pay may result in additional collection costs, including those associated with referral to a third-party collection agency.
   - Follow the 4-step process below to enroll in the Installment Payment Plan (or view the step-by-step tutorial here IPP Tutorial (http://www.csus.edu/sfsc/gallery/Album1/)):
     i. Log on to the Student Center through your MySacState at www.my.csus.edu (http://www.my.csus.edu).
     ii. Scroll down to the Finances Section and click on the drop down menu arrow.
     iii. Select the Payment Plan option.
     iv. Follow the on-screen instructions to be put on the plan

Undergraduates

	6 or Less Units	6.1 or More Units
Down Payment (Campus Fees + IPP fee)	$846.00	$846.00
2nd Installment	$555.00	$957.00
3rd Installment	$555.00	$957.00
4th Installment	$555.00	$957.00

Credential Program

	6 or Less Units	6.1 or More Units
Down Payment (Campus Fees + IPP fee)	$846.00	$846.00
2nd Installment	$644.00	$1,110.00
3rd Installment	$644.00	$1,110.00
4th Installment	$644.00	$1,110.00

Post-Baccalaureate [1]

	6 or Less Units	6.1 or More Units
Down Payment (Campus Fees + IPP fee)	$846.00	$846.00
2nd Installment	$694.00	$1,196.00
3rd Installment	$694.00	$1,196.00
4th Installment	$694.00	$1,196.00

[1] Post-Baccalaureate classification includes 2nd Bachelors.

Education Doctorate

	6 or Less Units
Down Payment (Campus Fees + IPP fee)	$846.00
2nd Installment	$1,973.00
3rd Installment	$1,973.00
4th Installment	$1,973.00

Doctorate Physical Therapy

	6.1 or More Units
Down Payment (Campus Fees + IPP fee)	$846.00
2nd Installment	$2,866.00
3rd Installment	$2,866.00
4th Installment	$2,866.00

2. Non-resident Tuition Installment Payment Plan
   a. If you are a domestic non-resident or International student, you are eligible for this plan (unless you have previously defaulted). The education code allows a non-resident student to pay the required non-resident tuition on an installment basis; limited to three equal installment payments. A 15% non-refundable administrative fee will be assessed on the total non-resident amount. You are responsible for the due dates of the installment plan as stated on your contract. You will not receive paper bills in the mail.
   b. Non-resident students who wish to use the tuition installment plan **MUST** go to Bursar's Office in Lassen Hall 1001 to sign an agreement. At that time you will be required to pay registration fees. Non-resident students may use both the Tuition Installment Payment Plan, and the Non-resident Tuition Installment Payment Plans.
   c. A $15.00 late fee will be assessed for each late payment.

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

Other Fees and Charges - Cal State Apply

Application Fee	$70.00

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

Parking

Semester Permits

All students, staff, and faculty are eligible to purchase a parking permit. A permit does not guarantee the holder a parking space in any given area at any given time. Sacramento State is not responsible for lost or stolen parking permits.

Student Permit Amounts

Automobiles, per semester	$178.00
Motorcycles, mopeds, per semester	$44.00
Weekly Permits	$12.00
Daily Permits	$7.00
Automobiles, summer	$119.00
Motorcycles, summer	$30.00

Temporary permits are non-refundable.

Residence Hall Student Permits & Carpool Permits

Contact the Transportation and Parking Services Department, (916) 278-7275.

Weekly and semester parking permits are available for purchase by showing a valid Sacramento State OneCard at the Bursar's Office located in Lassen Hall or the University Transportation & Parking Services (UTAPS) office. Daily parking permits are available from a daily parking permit machine or at the UTAPS office.

Purchase parking permits online at www.csus.edu/utaps (http://www.csus.edu/utaps/). As an alternative, parking permits may be purchased in person at the UTAPS Office or the Bursar's Office. Go to www.csus.edu/utaps (http://www.csus.edu/utaps/) for more information.

Other Fees

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

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

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

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

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

Late Registration Fee - This fee applies to those registering during the late registration period. This also applies to those who have been cancelled and are re-registering during this period.	$25.00
Late Add Fee - This fee applies to those who have been cancelled and are reenrolling for the same term as of the 1st day of instruction or later.	$10.00
Transcript of record fee	$8.00

Transcript RUSH fee (in addition to regular fee)	$15.00
All file document request	$15.00
Re-enrollment - This fee applies to those who have been cancelled and are reenrolling for the same term as of the 1st day of instruction or later.	$100.00
Writing Placement for Juniors fee	$25.00
Writing Placement for Graduates fee	$20.00
Course Fees - Campus departments may add additional course fees to your account. Most of these fees are added at the time of registration or shortly thereafter. These departments are, but not limited to: Art, Biology, Chemistry, Geology, Kinesiology, Music, Nursing, Theatre Arts, and Writing Placement for Juniors fee.	

Library Book Fees

1. Non-refundable late return book fees are assessed at $10.00 per item, after 44 days.
2. Lost book fees will include book replacement cost, a $10.00 processing charge and a $10.00 overdue fine.
3. A $10.00 penalty fee will be charged on recalled books which are not returned by due date.

Replacement of books/equipment	Cost of item lost or broken

Graduation and Thesis Fees

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

Caps and Gowns (sold by the ASI Student Store)

Baccalaureate Degree	$35.00
Master's Degree	$57.50

Student Accident and Sickness Insurance (per year)

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

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

Thesis/Project microfilming and binding fee	$60.00

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

Refund Regulations

Bursar's Office
Lassen Hall 1003
(916) 278-6736

Refund of Tuition and Mandatory Registration Fees, Including Nonresident Tuition

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

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

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

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

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

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

- The tuition and fees were assessed or collected in error;
- The course for which the tuition and fees were assessed or collected was cancelled by the university;
- The university makes a delayed decision that the student was not eligible to enroll in the term for which tuition and mandatory fees

were assessed and collected and the delayed decision was not due to incomplete or inaccurate information provided by the student; or
- The student was activated for compulsory military service.

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

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

Elena Larson, Bursar
Student Account Services
6000 J Street, Lassen Hall 1003
Sacramento, CA 95819
Phone (916) 278-6736.

Refunds

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

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

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

Withdrawing from all classes

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

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

To officially withdraw you must complete and file a Withdrawal Form at the Student Services Center in the Lassen Hall 1st floor lobby.

Drop in Units

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

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

Non-Credit/CEU Refund

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

Meetings	Full Refund	65% Refund Less $10	No Refund Less $10
9 or more	Prior to 1st class	Before 3rd class	After 3rd class
5-8	Prior to 1st class	Before 2nd Class	After 2nd class
4 or less	Prior to 1st class	None	None

Special Session Academic Credit Refund

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

Obtaining approval to drop a class does not grant you an automatic refund of course fees.

Refunds are still issued per your program's refund policy. Generally, refunds are allowed according to the following timeline:

- If you drop before the class starts, you will get a full refund minus a $10 processing fee.
- If you drop any time within the first 25% of the course, including the first day of class, you will get a 65% refund minus a $10 processing fee. If you have not paid for your course yet, you will still owe the other 35% of your tuition. This fee will remain due on your account.
- If you drop after the first 25% of the class has elapsed, you will not receive a refund. If you have not paid for your course, all fees will remain due on your account.

If you dropped after the full or partial refund deadline and would like to request a refund, please contact your program coordinator.

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

Parking Refunds

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

Fall/Spring

Time Limit	Amount of Refund
Before first day of class	100% of fee
1-30 calendar days	75% of fee
31-60 calendar days	50% of fee

61-90 calendar days	25% of fee
None thereafter	

All Summer

Time Limit	Amount of Refund
Before first day of class	100% of fee
1-25 calendar days	67% of fee
26-50 calendar days	33% of fee
None thereafter	

Note: Weekly and daily permits are non-refundable.

Fees NOT Refundable

Application Fee, Late Registration Fee, Enrollment Cancellation Fee, State University Installment Payment Plan Administrative Fee, Non-resident Tuition Installment Payment Plan Administrative Fee, Weekly and daily permits

Financial Aid Refunds/Return of Title IV

Student Service Center
Lassen Hall Lobby
(916) 278-6554

A student who receives aid and withdraws, drops units, is expelled, etc., during or after the first day of enrollment will be reviewed in accordance with the Federal Title IV Student Financial Assistance Return of Title IV. The federal regulations require that Sacramento State provides for a refund using the pro-rata calculation if the student withdrew on or before 60 percent of the enrollment period.

Students are required to “officially” withdraw from the University. In the event that the student’s progress does not reflect attendance, the unofficial withdrawal date used will be the mid-point of the term.

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

Fees and Debts Owed to the Institution

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

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

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

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

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

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

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

Cancellation of Registration, Dropping Units or Withdrawal from the Institution

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

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

Financial Aid

Financial Aid Office

Student Service Center Lassen Hall
(916) 278-1000
Financial Aid Website (http://www.csus.edu/faid/)

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

Types of financial aid may include scholarships, federal and state grants, federal work study, student loans and in some cases parent loans. Eligibility for financial aid is based on the Cost of Attendance (COA) minus the Estimated Family Contribution (EFC) determined by the information reported on the FAFSA or CADA application. For more

information on the types of financial aid available please refer to our website (http://www.csus.edu/faid/).

University staff are available to assist students by simply visiting the Student Service Center located in Lassen Hall Room 1000.

Application Process

All students are encouraged to complete the Free Application for Federal Student Aid (FAFSA) or the California Dream Act application before the March 2 priority filing deadline each year to be considered for all aid programs. There are two ways to apply for financial aid.

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

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

When filing the financial aid application, answer all questions accurately. Information reported on the application may need to be verified by the Financial Aid & Scholarships Office; if so, students will be informed through their student portal and provided a link to the required additional documentation. The Financial Aid office will review your file and determine your award eligibility once all documents have been received. Please allow up to 3 weeks for processing after the last document has been submitted.

Student Eligibility Requirements for US Citizens and Eligible Non-Citizens who Filed a FAFSA

To be eligible for financial assistance each applicant must:

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

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

Student Eligibility Requirements for AB540 Students with an Unofficial Immigration Status who Filed a California Dream Act Application

To be eligible for financial assistance each applicant must:

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

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

Priority Dates

- March 2 is the FAFSA and the California Dream Act Application priority filing date for limited available funds. Financial aid is awarded on a first come basis to eligible students who meet the priority filing date and have the greatest need.
- March 2 is also the deadline to file the GPA verification form to the California Student Aid Commission (CSAC) for the Cal Grant programs.
- Those students whose Financial Aid applications are received by the processor **after** March 2 are late applicants and are considered for aid based upon remaining fund availability.

Documents Required

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

Awarding Financial Aid

Eligibility for financial aid is determined by subtracting the estimated family contribution (EFC) amount the student and spouse, (if independent), or the student and parents together, (if dependent), can contribute toward the cost of attending Sacramento State. The EFC is determined by filing the FAFSA or California DREAM Act application.

Financial aid is awarded based on full-time enrollment. Some awards, however, may be prorated for students attending less than full-time. Refer to the Award Notice Guide for more details.

Grants

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

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

Teacher Education Assistance for College and Higher Education (TEACH) grants are available for students who filed a FAFSA and currently

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

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

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

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

Loans

All loans must be repaid after the student graduates, leaves school or drops below half-time enrollment. All student loan borrowers must complete a Federal Direct Loan Master Promissory Note (MPN), Entrance Loan Counseling and Exit Loan Counseling.

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

The Federal Direct Subsidized Loan is a long term, fixed interest rate loan for undergraduate students and is need-based. Interest is deferred until 6 months after the student graduates or ceases to be enrolled. We encourage students to only borrow what you need and understand what your repayment obligations will be after graduation.

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

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

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

Direct Loan Annual Loan Limits By Class Level

Class Level	Dependent	Independent	(Max Subsidized)
Freshman	$5,500	$9,500	($3,500)
Sophomore	$6,500	$10,500	($4,500)
Junior/Senior	$7,500	$12,500	($5,500)
Credential	$5,500	$12,500	($5,500)
Unclassified Grad (Masters)	$5,500	$12,500	($5,500)
Unclassified Grad (Credential)	$2,625	$8,625	($2,625)
Graduate		$20,500	N/A

Lifetime Loan Limits By Degree Objective

Degree Objective	Dependent	Independent	(Max Subsidized)
Undergraduate	$31,000	$57,500	($23,000)
Graduate	NA	$138,500	($65,500)

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

Federal Direct Graduate PLUS Loans is a long term, fixed interest rate loan for eligible graduate students who demonstrate credit worthiness. Repayment begins six months after the student graduates, leaves school, or drops below half-time enrollment.

Employment [1]

Federal Work-Study (FWS) is a federally funded, need-based employment program that provides eligible students the opportunity to earn funds for their educational expenses through job opportunities. Many different types of positions are available, ranging from library attendants to research assistants. A wide range of choices exists in the University as well as in nonprofit agencies in the metropolitan area, including community service opportunities. Recipients may work up to 20 hours per week.

[1] See also Academic Support Resources (p. 24)/Cooperative Education Program.

Scholarships

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

The Institutional Scholarship Program

The Institutional Scholarship Program offers a varied number of scholarships in diversified categories and majors. Scholarship eligibility requirements and award amounts may vary from scholarship to scholarship. Application and award information is available on the

Financial Aid & Scholarships Office website. The application cycle is open from mid-January through mid-March each year.

Other Scholarship Programs

Other various scholarship programs are available from campus departments, community organizations, and private industry. Students should contact their major department as well as their employers, service and religious organizations, and other professional affiliations for possible scholarship opportunities.

Fee Waivers and Exemptions

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

Section 66025.3 –

Military

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

Foster Youth

Current or former foster youth who are 25 years of age or younger; have been in foster care for at least 12 consecutive months after reaching 10 years of age; meet one of the following: is under a current foster care placement order by the juvenile court, was under a foster care placement order by the juvenile court upon reaching 18 years of age, or was adopted, or entered guardianship, from foster care; completes and submits the Free Application for Federal Student Aid (FAFSA); maintains a minimum grade point average and meets the conditions necessary to be in good standing at the campus; and meets the financial need requirements established for Cal Grant A awards. The waiver of mandatory systemwide tuition and fees under this section applies only to a person who is determined to be a resident of California pursuant to Chapter 1 (commencing with Section 68000) of Part 41 of the California Education Code.

Section 66602 – A qualifying student from the California State University who is appointed by the Governor to serve as Trustee of the California State University for the duration of his or her term of office.

Section 68120 – Surviving spouse or child of a deceased resident who was employed by a public agency, or was a contractor or an employee of a contractor, performing services for a public agency, and was killed or died as a result of an industrial injury or illness arising out of and in the course of the performance of his/her principal duties of active law enforcement or active fire suppression and prevention duties (referred to as Alan Pattee Scholarships). Additionally, a person who qualifies for the waiver under this section as a surviving child of a contractor or of an employee of a contractor, who performed services for a public agency, must have enrolled as an undergraduate student at the California State University and meet the applicable income restriction requirement with supporting documentation (i.e. his/her income, including the value of parent support, does not exceed the maximum household income and asset level for an applicant for a Cal Grant B award).

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

Section 69000 – A person who has been exonerated, as that term is defined in Section 3007.05(e) of the Penal Code; complete and submits the FASFA; and meets the financial need requirements established for Cal Grant A awards. The waiver of mandatory systemwide tuition fees under this section applies only to a person who is determined to be a resident of California pursuant to Chapter 1 (commencing with Section 68000) of Part 41 of the California Education Code.

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

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

Section 68075 - A student who is a member of the Armed Forces of the United States stationed in this state, except a member of the Armed Forces assigned for educational purposes to a state-supported institution of higher education, is entitled to resident classification only for the purpose of determining the amount of tuition and fees.

If that member of the Armed Forces of the United States who is in attendance at an institution is thereafter transferred on military orders to a place outside this state where the member continues to serve in the Armed Forces of the United States, he or she shall not lose his or her resident classification so long as he or she remains continuously enrolled at that institution.

Section 68075.7 – A nonresident student is exempt from paying nonresident tuition or any other fee that is exclusively applicable to nonresident students if the student (1) resides in California, (2) meets the definition of 'covered individual' as defined in either: (A) Section 3679(c)(2)(A) or (B)(ii)(I) of Title 38 of the United States Code, as that provision read on January 1, 2017 or (B) Section 3679(c)(2)(B)(i) or (ii)(II) of Title 38 of the United States Code, as that provision read on January 1, 2017, and (3) is eligible for education benefits under either the federal Montgomery GI Bill-Active Duty program (30 U.S.C. § 3001 *et seq.*) or the Post-9/11 GI Bill program (38 U.S.C. § 3301 *et seq*.) as each read on January 1, 2017.

Section 68122 – A student who is a victim of trafficking, domestic violence, and other serious crimes who has been granted T or U visa status (respectively under Section 1101(a)(15)(T)(i) or (ii), or Section 1101(a)(15)(U)(i) or (ii), of Title 8 of the United States Code) shall be exempt from paying nonresident tuition to the same extent as individuals who are admitted to the United States as refugees under Section 1157 of Title 8 of the United States Code.

Section 68130.5 – A student, other than a nonimmigrant alien (8 U.S.C. § 1101(a)(15)), who is not a resident of California is exempt from paying

nonresident tuition if the student meets the requirements of (1) through (4), below:

1. Satisfaction of the requirements of either subparagraph (A) or subparagraph (B):
   a. A total attendance of, or attainment of credits earned while in California equivalent to, three or more years of full-time attendance or attainment of credits at any of the following:
      i. California high schools.
      ii. California high schools established by the State Board of Education.
      iii. California adult schools established by a county office of education, a unified school district or high school district, or the Department of Corrections and Rehabilitation (subject to the class hours' requirement).
      iv. Campuses of the California Community Colleges (subject to the credit requirements).
      v. A combination of those schools set forth in clauses (i) to (iv), inclusive.
   b. Three or more years of full-time high school coursework, and a total of three or more years of attendance in California elementary schools, California secondary schools, or a combination of California elementary and secondary schools.
2. Satisfaction of any of the following:
   a. Graduation from a California high school or attainment of the equivalent thereof.
   b. Attainment of an associate degree from a campus of the California Community Colleges.
   c. Fulfillment of the minimum transfer requirements established for the California State University for students transferring from a campus of the California Community Colleges.
3. Registration as an entering student at, or current enrollment at, an accredited institution of higher education in California not earlier than the fall semester or quarter of the 2001–02 academic year.
4. In the case of a person without lawful immigration status, the filing of an affidavit with the institution of higher education stating that the student has filed an application to legalize his or her immigration status, or will file an application as soon as he or she is eligible to do so.

Satisfactory Academic Progress (SAP)

SAP is measured annually in three areas and all three standards must be met:

1. Minimum Cumulative GPA standard:

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

2. Overall Degree Progress standard:

Students are required to complete their degree/certificate within 150 percent of their program degree objective.

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

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

3. Satisfactory Pace Standard:

The satisfactory pace standard is an overall ratio of Sacramento State units earned to Sacramento State units attempted. Students must pass at least 75 percent of units attempted.

All graded coursework are counted, including repeats, in-progress and withdrawals. SAP review also incorporates all unsuccessful coursework attempted at Sacramento State (i.e. "F", "I", "NC", "W", "WU"). *Transfer units are not included in this calculation.*

Students must meet the following standards to receive financial aid regardless of whether they were prior financial aid recipients. Satisfactory Academic Progress will be reviewed and monitored annually each spring after grades have posted.

These standards comply with federal regulations and University policy, are applicable to all financial aid applicants at Sacramento State, and affect eligibility for all federal and state aid, including grants, loans, and work study.

Financial Aid Disqualification

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

- they fail to meet the GPA requirements;
- they fail to successfully complete fewer than 75% of their attempted units in any academic year;
- they fail to complete their program within 150% of their degree program required units;
- they are pursuing a second or subsequent bachelor's, credential, or master's degree.

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

Appeal Review

Satisfactory academic progress is measured for all students on an annual basis. Students not meeting the requirements will be 'Financial Aid Disqualified' and notified accordingly with instructions of the appeal process.

Appeal Process

Students who become disqualified from receiving financial aid will be notified via My Sac State Student Center and provided instruction on the process. Appeals will be evaluated based on the student's extenuating circumstance and their plan to take corrective measures toward successful degree completion.

Regaining Eligibility

Students who are disqualified due to low GPA or low unit completion will regain eligibility when they achieve the required GPA or unit completion as long as they have not completed more than 150% of their program requirements. Undergraduate students who are disqualified due to exceeding 150% of the required units for their program will regain eligibility after they become a master's or credential student after their bachelor's degree is posted. Students who meet this condition before the spring semester may submit a written request to have their eligibility

reinstated, otherwise progress will be reviewed after spring grades have posted.

Drop in Units

Students who received financial aid funds should consult with the Financial Aid & Scholarships Office prior to dropping a course or withdrawing from the University to determine the impact on the financial aid received. Financial aid regulations requires the Financial Aid & Scholarships Office to determine what percentage of aid is considered earned and any unearned aid must be returned to the appropriate program, resulting in refund or repayment of grant or loan assistance received for that academic term. For drop in units, aid will be adjusted at Census date to reflect the final enrollment status.

Special Categories of Students

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

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

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

Financial Aid Refunds/Return of Title IV [1]

[1] Refer to Fees and Refunds (p. 24)/Return of Title IV.

Cost of Attending Sacramento State

Student budgets, also known as Cost of Attendance (COA), are designed to provide students with a projection of reasonable costs to attend school for a nine month school period. The students COA includes direct costs which are actual tuition and fees charged and, if applicable on campus housing charges. Indirect costs included in the total COA include an allowance for books and supplies, food and housing for those living off-campus or with parents, transportation costs and an allowance for miscellaneous/personal items. The following chart is an estimate of the cost of attendance during the 2018 2019 academic year as a full-time undergraduate student and may not represent your actual expenditures for these items.

Allowance	Live with Parents	Live On-Campus	Live Off-Campus
Fees	$7,310	$7,310	$7,310
Books/Supplies	$1,920	$1,920	$1,920
Food/Housing	$5,418	$14,782	$13,780
Transportation	$1,108	$846	$1,252
Misc. Personal	$1,480	$1,480	$1,480
TOTAL	$17,236	$26,338	$25,742

Education Doctorate students add $4,662 to graduate full-time tuition fees and students of Doctorate of Physical Therapy add $10,020 to the graduate full-time tuition fees. Graduate MBA Fees are an additional $270 per unit. Non-Resident of California add $396 per unit. Budget figures are subject to change without notice. The CSU makes every effort to keep student costs to a minimum. Fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, the CSU must reserve the right, even after initial payments are made, to increase or modify any listed fees, without notice, until the date for a particular semester or quarter has begun. All CSU listed fees should be regarded as estimates that are subject to change upon approval by The Board of Trustees.

Registration

Introduction to My Sac State

www.csus.edu (http://www.csus.edu)

Continuing Sacramento State students and new students who have received notice of admission are eligible to register for classes. Registration is conducted online through the Student Center on My Sac State. Eligible students are assigned a registration appointment by class level priority. The Class Schedule is available online in March for fall semester. In most academic departments, advising begins in early March for fall semesters and in October for spring semesters.

Registration information will be communicated to all eligible students in April for fall semesters and November for Spring semesters. Summer registration begins April. The Academic Advising Center offers advising and registration assistance to newly admitted students during the orientation program prior to each fall and spring semester.

Students who miss their registration appointment may enroll during Open or Late Registration. There is a $25 fee for late registration. Course availability may be limited.

Once students register for classes, all registration fees must be paid by established deadlines. Failure to pay registration fees or make appropriate arrangements for payments will result in enrollment cancellation. Contact the Bursar's Office for payment deadlines.

Adding Courses

Students are expected to add courses by using 'My Sac State' at www.my.csus.edu

- Until the end of the second week of the semester. Course adds that require instructor permission must be completed by using an add permit available from the academic department or at the Registrar's Office website (https://www.csus.edu/student-affairs/centers-programs/student-services-center/forms.html).
- Adds in weeks three and four of the semester are processed through the academic department and require approval by the instructor and department chair.
- Adds are not approved after week four (the census date) unless students present evidence of University error that prevented their timely registration. University error does not include failure to meet all payment deadlines. In addition to completing a Petition to Add/Drop/Withdraw from courses after deadline, students must state their reason for a late add request on a separate page and attach it to the petition, along with verification of the circumstances. Students must then obtain signatures of the instructor, department chair, and college dean. See Petition to Add/Drop/Withdraw for more details.
- After filling out Petition to Add/Drop/Withdraw, students must submit the petition to the Registrar's Office, Lassen Hall 2000, for consideration by the vice president (or designee). **A late fee of $10 will be posted on the student account within two weeks, if approved.** Check back with the Registrar's Office two business days after submitting payment (check/money order only). If approved, the Registrar's Office will add the course to the student's schedule.

- Adds for audits must be noted on the petition, and the petition must be submitted to the Registrar's Office. No adds for audit are permitted after the census date.

Drop and Withdrawal Policy

Definitions

Dropping a course refers to official removal from a course within the first four weeks of the semester (before census date). In this instance, nothing is recorded on the student's permanent record.

Withdrawal from a course is an official removal from a course after census date. A grade of 'W' is recorded on the student's permanent record.

Enrollment Cancellation refers to students being administratively dropped from courses due to non-payment of fees. Enrollment Cancellation is done throughout the registration cycles prior to the census date. No 'W' grades are recorded on the student's permanent record. If a student is *enrollment cancelled* after classes begin, they will be charged fees prorated for each day of enrollment. If student is enrollment cancelled during their first semester prior to the first day of classes, they will be required to reapply for admission.

Unauthorized Withdrawal may result for failure to drop or withdraw properly from a course. In this case, a grade of 'WU' is assigned by the instructor. (See 'Unauthorized Withdrawal Policy' below.)

Limit on Withdrawal. For all units attempted at California State University Sacramento, withdrawals made after the census date and prior to the last three weeks of instruction are limited to a combined total of no more than 18 semester-units during a student's academic career at CSUS.

Dropping Courses

Although instructors may exercise their authority to administratively remove any student who fails to attend during the first two weeks of instruction, students should not assume they will be dropped. Students will receive a final grade of 'F' or 'WU' in courses they fail to drop officially.

- Students wishing to withdraw from **all** courses should fill out the Semester Withdrawal Form.
- Until the end of the second week of instruction of the semester, students are expected to drop courses by using 'My Sac State' (www.my.csus.edu). Students will be charged registration fees for all courses not dropped prior to the first day of instruction. The drop in units refund deadline is the end of the second week of instruction.
- Drops during the third and fourth weeks of instruction are processed in the academic department offering the course and require instructor and department chair approval. Forms are available at academic department offices, or at the Office of the Registrar's website (https://www.csus.edu/student-affairs/centers-programs/student-services-center/forms.html).

Withdrawal from a Course

Drops *after the fourth week* of the semester (census date) are called withdrawals. The approved Petition to Add/Drop/Withdrawal form must be submitted to the Registrar's Office (Lassen Hall) after the fourth week. The petition is available through academic department offices, or at the Office of the Registrar's web site (https://www.csus.edu/student-affairs/centers-programs/student-services-center/forms.html).

- Students may withdraw from no more than 18 units in their undergraduate career, unless an exception is granted (any 'W' grades received prior to the Fall 2010 semester do not count towards the 18 unit maximum).
- If students are seeking to drop or withdraw from an individual course or courses after the fourth week of the semester, and have reached the University maximum of 18 units of 'W' grades allowable, they must submit an approved Petition to Add/Drop/Withdraw as a supplement to their Petition for Exception: Withdrawal in Excess of 18 units. This form is available at the Office of the Registrar's website (https://www.csus.edu/student-affairs/centers-programs/student-services-center/forms.html).
- Withdrawals after the fourth week of the semester are granted only for 'serious and compelling' reasons:
  a. Withdrawal during the 5th and 6th week of the semester requires the signature of the course instructor and the department chair. Reasons for dropping in during this period include medical circumstances, carrying an excessive course load, student's inadequate academic preparation for the course, or the student having significant job or career changes.
  b. Withdrawal during the 7th through the 12th week requires the signature of the course instructor, the department chair, and the college dean. Reasons for withdrawal during this period include only medical or work related circumstances clearly beyond the control of the student; a student initiated job change, carrying an excessive course load, or inadequate preparation do not qualify. Withdrawal is allowed after the 12th week of instruction only in exceptional cases, such as in cases of accident or serious illness due to circumstances beyond the student's control. All signatures are required and the student must meet with an Academic Advisor in the Academic Advising Center. Withdrawals approved during the last three weeks of the semester will not count towards the 18 unit maximum; however, a grade of "W" is still recorded on the transcript.

Attendance

Classroom attendance is generally necessary for academic success; therefore, regular attendance at class is expected. In some courses (for example, laboratories or seminars), attendance is absolutely critical to the work of the course. Students are advised that individual faculty may establish attendance policies in their courses and may link absences to their evaluation of students' performance in the course. Such policies must be stated in the course syllabus made available at the beginning of the semester. Excessive absences may lead a faculty member to assign a "WU" or "F" grade.

Instructors have the right to administratively remove any student who, during the first two weeks of instruction, fails to attend any two class meetings (for courses that meet two or more times a week), or one class meeting (for courses that meet once a week). It is therefore especially important that students contact instructors in advance regarding absences during the add/drop period. However, do not assume instructors will turn in official drops. It is the responsibility of each student to officially drop any scheduled courses he or she is not attending. Failure to do so will result in penalty grades ('WU' or 'F').

Cancellation of Registration or Withdrawal from the University

Student Service Center

Lassen Hall Lobby

(916) 278-1000

Students who find it necessary to cancel their registration or to withdraw completely from Sacramento State after enrolling for any academic term ***are required*** to follow the university's official withdrawal procedures (see below). Failure to follow formal university procedures may result in an obligation to pay fees, the assignment of failing grades in all courses, and the need to apply for readmission before being permitted to enroll in another academic term. Information on canceling registration and withdrawal procedures is available from the Registrar's Office at (916) 278-1000.

Students who receive financial aid funds ***must consult*** with the Student Services Center prior to withdrawing from the university regarding required return or repayment of grant or loan assistance received for that academic term or payment period. Students who have received financial aid and withdraw from the institution during the academic term or payment period may need to return or repay some or all of the funds received, which may result in a debt owed to the institution[1]

Sacramento State students withdrawing from all classes in a given semester must receive approval from the Student Services Counselor before leaving the university. Students withdrawing from one or some of the classes, but not all, after the sixth week of the semester for academic reasons must receive approval from the college dean of the class being dropped.

Students withdrawing after the fourth week of instruction will receive a grade of “W” in each class.

Students who are withdrawing because they are incapacitated and are unable to obtain approvals in person must contact the Student Services Center to discuss processing procedures. Verification of illness or accident should accompany a student’s request.

Withdrawals from the University *during the final three weeks* of the semester shall not be permitted except in cases such as accident or serious illness, where the cause of withdrawal is/are clearly beyond the student's control, occurred after the 12th week of the semester, and the assignment of ’Incomplete’ grades each course is impractical. Medical documentation will be required.

A student who pays registration fees and subsequently withdraws after the first day of the semester usually is considered a continuing student for the next semester and need not reapply for admission.

For information regarding refund of registration fees upon withdrawal, refer to Fees page: https://www.csus.edu/apply/enrollment-costs-fees/refunds/.

[1] See Fees and Refunds/Financial Aid Refunds/Title IV.

Immunization Requirements

Student Health and Counseling Services

(916) 278-6461

https://www.csus.edu/student-life/health-counseling/

CSU Immunization Requirements

Entering CSU students are required to present proof of the following immunizations to the CSU campus they will be attending before the beginning of their first term of enrollment.

Measles, Mumps, and Rubella (MMR): Two (2) doses with first dose on or after 1st birthday; OR positive titer (laboratory evidence of immunity to disease).

Hepatitis B (Hep B): All new students who will be 18 years of age or younger at the start of their first term at a CSU campus must provide proof of full immunization against Hepatitis B before enrolling. Full immunization against Hepatitis B consists of three timed doses of vaccine over a minimum 4 to 6 months period. If you need further details, please consult Student Health and Counseling Services.

Varicella (Chickenpox): Two (2) doses with first dose on or after 1st birthday; OR positive titer (laboratory evidence of immunity to disease) prior to enrollment.

Tetanus, Diphtheria, Pertussis (Tdap): One (1) dose after age 7.

Meningococcal conjugate (Serogroups A, C, Y, & W-135): One (1) dose on or after 16 for all students and age 21 or younger.

Tuberculosis Screening/Risk Assessment: All incoming students must complete a Tuberculosis risk questionnaire. Incoming students who are at higher risk* for TB infection, as indicated by answering ’yes’ to any of the screening questions, should undergo either skin of blood testing for TB infection within one year of CSU entry.
*Higher risk include travel or living in South or Central America, Africa, Asia, Eastern Europe, and the Middle East; prior positive TB test; or exposure to someone with active TB disease.

The above are **not** admission requirements, but are required of students as conditions of enrollment in CSU.

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

Immigration Requirements for Licensure

Office of the University Registrar

Office of the University Registrar
Student Service Center
Lassen Hall Lobby

The Personal Responsibility and Work Opportunity Reconciliation Act of 1996 (P.L. 104-193), also known as the Welfare Reform Act, includes provisions to eliminate eligibility for federal and state public benefits for certain categories of lawful immigrants as well as benefits for all illegal immigrants.

Students who will require a professional or commercial license provided by a local, state, or federal government agency in order to engage in an occupation for which the CSU may be training them must meet the immigration requirements of the Personal Responsibility and Work Opportunity Reconciliation Act to achieve licensure. Information concerning the regulation these requirements are available from the Office of the University Registrar.

Maximum Course Load

Because of the preparation required to do quality work, a normal course load is considered to be 15 to 17 units, depending on the curriculum in which the student is enrolled. Students who want to accelerate their programs may enroll for a maximum of 18 units in a semester by

adding courses during the change-of-program period, known as Open Registration.

Students whose University record justifies a course load in excess of 21 units may petition to be allowed to carry extra units. The petition must be recommended by their advisor and approved by their major department chair and college dean. Only students with superior academic records are allowed to enroll for more than the maximum unit load. An overall grade point average of at least 3.25 is normally required, and the need to carry an overload must be established. Factors such as time spent in employment or commuting, nature of the program, and the student's health should be considered in planning a student load. Students who are employed full time are advised not to carry a load in excess of 6 units.

Intrasystem and Intersystem Enrollment Programs

Office of the University Registrar
Lassen Hall 2000

Fully matriculated students enrolled at any CSU campus have access to courses at other CSU campuses on a space available basis unless those campuses/programs are impacted. This access is offered without students being required to be formally admitted to the host campus and in most cases without paying additional fees. Students should consult their home campus academic advisors to determine how such courses may apply to their specific degree programs before enrolling at the host campus.

There are two programs for enrollment within the CSU and one for enrollment between CSU and the University of California or California Community Colleges. Please contact the Office of the University Registrar for additional information.

Students are not required to notify the University of their intention to discontinue enrollment unless applying for a Leave of Absence or one of the special statuses explained below.[1]

[1] Refer to Application to Sacramento State (p. 24)/Returning Student.

CSU Fully Online Courses

Matriculated students in good standing may request enrollment in one course per term, offered by a CSU host campus. Enrollment requests will be granted based on available space, as well as completion of any stated pre-requisites. Credit earned at the host campus is electronically reported to the student's home campus to be included on the student's transcript at the home campus.

CSU Visitor Enrollment

Matriculated students in good standing enrolled at one CSU campus may enroll at another CSU campus for one term. Credit earned at the host campus is reported at the student's request to the home campus to be included on the student's transcript at the home campus. Students should consult Sacramento State advisors to determine how host campus courses may apply to their degree programs before enrolling.

Visitor transfers are approved for one term only and are subject to space availability and enrollment priority policies at the host campus. Enrollment as a visitor transfer may be repeated after re-enrollment at the home campus. Concurrent enrollment (see below) is not permitted during visitor status. Visitor applications may be obtained from the Admissions Office or the Office of the University Registrar.

Concurrent Enrollment Within CSU

Matriculated students in good standing enrolled at any CSU campus may enroll on a space available basis at both their home CSU campus and a host CSU campus during the same term. Credit earned at the host campus is reported at the student's request to the home campus to be included on the student's transcript at the home campus. Many online courses at CSU campus are available for concurrent enrollment. Because of overlap in academic terms of campuses on semester and quarter calendars, concurrent enrollment is subject to combinations and conditions described in the concurrent enrollment application forms available from the Office of the University Registrar.

Intersystem Cross Enrollment

Matriculated CSU, UC, or community college students may enroll on a "space available" basis for one course per term at another CSU, UC, or community college and request that a transcript of record be sent to the home campus.

Cross enrollment is available to students who:

1. are California residents;
2. have completed at least one regular term at their home campus as a matriculated student;
3. have paid appropriate enrollment fees at the home campus for the current term;
4. have earned a grade point average of 2.0 ("C" average) for all college work completed; and
5. have completed appropriate academic preparation for the course they intend to take, as determined by the host campus.

Details on enrollment conditions and procedures are available from the Registrar's Office at the home campus. Students must request a transcript of record be sent to the home campus upon completion of the term.

Concurrent Enrollment Outside CSU

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

Students may enroll at another institution outside the CSU system while enrolled at Sacramento State without prior approval if the total course load does not exceed 21 units. Students must arrange to have an official transcript mailed to Sacramento State, Transfer Credit Evaluations, Office of the University Registrar, upon completion of the term. It is advisable to confirm that courses attempted elsewhere will be transferable and meet Sacramento State requirements.

Concurrent Enrollment Within Sacramento State

Concurrent registration, also known as Open University, is enrollment in on-campus courses through the College of Continuing Education. The formal application for admission, application fee, and supporting documents are not required for concurrent registration.[1] Open University registration is not available to matriculated degree seeking students.

[1] Refer to Research, Graduate and Extended Programs (p. 24)/College of Continuing Education.

Leaves of Absence

The leave policy allows enrolled Sacramento State undergraduate and second baccalaureate students to maintain enrollment eligibility and rights to specified degree requirement options.[1] Unclassified postbaccalaureate students are allowed to maintain enrollment status while exploring goals away from the University. The policy also allows classified graduates (those enrolled in master's degree programs) to maintain status in their programs during an absence. Sacramento State students who will not be enrolled at Sacramento State may file for a Leave of Absence to receive these benefits. Forms to apply for a Leave of Absence for Undergraduate students are available in the Office of the University Registrar, for Graduate level students the form is located on the Graduate Studies website.

Sacramento State students studying abroad through independent programs should contact the International Programs and Global Engagement Office for information.

As required by law, regulations regarding admission eligibility, established by the California State University Board of Trustees, will apply to re-admission. Students dismissed due to academic deficiencies or disciplinary action are not eligible for Leaves of Absence. (However, students readmitted to Sacramento State after only one semester of non-enrollment maintain catalog rights.) Students enrolled only in Extension courses or as Auditors are not eligible for Leaves of Absence.

Leaves approved for graduate students do not extend the seven year time limit for completion of graduate degree requirements established by Title 5, California Code of Regulations, Section 40510. Graduate students anticipating absence beyond such time limits must first seek approval through the Office of Graduate Studies, (916) 278-6470.

Enrolled Sacramento State students requesting leaves during a semester must follow withdrawal procedures. All contractual agreements (housing, financial aid, etc.) must be satisfactorily terminated.

[1] Refer to Baccalaureate Degree Requirements (p. 24)/Catalog Rights.

Types of Leaves

Medical

Requests must be accompanied by a statement from a medical doctor explaining why the student must interrupt enrollment. No limit exists on the number of semesters of absence allowed, except leaves for pregnancy, which are restricted to the semester of delivery and the one following. An application and fee are required at readmission following a leave of two or more semesters.

Military

Requests must be accompanied by a copy of military orders indicating induction or transfer date. Eight semesters absence is the maximum that can be approved. An application and fee are required at readmission for a leave of two or more semesters.

Planned Educational Leave

Students may petition for planned educational leaves to pursue educationally related activities that will enhance the prospect of successful completion of their academic programs but which may not require enrollment at Sacramento State or any other institution of higher education. A planned educational leave may be granted for a period of up to two years to students who apply while enrolled in a degree program at Sacramento State. If the leave is approved, the student retains degree catalog rights and may enroll as a continuing student provided the student notifies the Office of the University Registrar of her/his return and registers in the same semester indicated on the petition.

Personal

Students who for personal reasons are temporarily unable to continue their program of studies may request a leave of absence for a specific period of time not to exceed two semesters. After reaching the two semester limit, students who are requesting to extend their leave of absence status must file a request to extend on the Leave of Absence petition for no more than an additional two semesters. Four semesters of absence is the maximum that can be approved for personal reasons. If the leave is approved, the student retains degree catalog rights. The student may enroll as a continuing student provided the student notifies the Office of the University Registrar of her/his return and registers in the same semester as indicated on the petition. However, an application and fee are required for formal readmission for a leave of two or more semesters.

One Semester Only

Sacramento State students who are not enrolled for one semester at Sacramento State are considered as on a leave of absence. Students who return after being absent for one semester do not have to file for readmission or pay the application fee, keep their catalog rights for undergraduate students and maintain classified status for graduate students. (Exception: graduate students who have completed all coursework and have received an 'RP' in their culminating experience are required to enroll in Continuous Enrollment. Further information is available at the Office of Graduate Studies.) Students who do not enroll for two consecutive semesters without filing for a Leave of Absence are not considered as continuing students. Students must reapply for admission and pay the application fee. All application deadlines must be followed for consideration for readmission.

Enrollment at Regionally Accredited Colleges

Once catalog rights are established by enrollment at a California State University or California Community College (CCC), enrollment at a regionally accredited college maintains these catalog rights if two conditions are met:

1. enrollment takes place at the regionally accredited college for one semester or two quarters of each calendar year after leaving a CCC or Sacramento State; and
2. enrollment or re-enrollment at Sacramento State occurs within or at the end of a four-semester maximum absence.

Students attending regionally accredited colleges while absent from Sacramento State do not qualify for a Leave of Absence.

Definition of Key Terms

Academic Action — When a student's academic performance does not meet the University's minimum scholastic standards, he/she will be subject to academic action that will affect eligibility to register.

Academic Program — A pattern of specialized courses designed to provide students with the skills and knowledge necessary to pursue a specific career or advanced study. See list of academic programs (or majors).

Career — There are three designated academic careers for which transcripts are maintained: Undergraduate, Graduate, and College of Continuing Education (extension).

My Sac State — The access portal for student, faculty, and staff specific information and services. Students access specific information in the Student Center. Faculty access specific information in the Faculty Center.

Class Level — A student's class level based on units completed or academic program objective. Undergraduate class levels are:

Freshman	less than 30 units
Sophomores	30 to 59.9 units completed
Juniors	60 to 89.9 units completed
Seniors	90 or more units completed

Graduate students are those who have graduated with a baccalaureate degree from an accredited college or university.

Computer Proficiency — Courses using the various forms of computers and labeled as such will include a notice within the catalog description identifying the specific knowledge requirement as listed below:

- MAC-OS: start-up procedures, icon usage, file management, mouse input, print, backup, formatting, and copying.
- PC-DOS: start-up procedures, disk formatting and copying, print, directory listing, and program access.
- UNIX: log-in procedures, directory navigation, print, copy, run programs, and file management.
- VMS: log-in procedures, directory navigation, print, copy, run programs, and file management.

Corequisite — A corequisite is a course or other preparation which must be taken simultaneously. Corequisites are listed in the course description.

Course Number System

1-99	Lower Division
100-199	Upper Division
200-299	Graduate
300-499	Professional Education
500-599	Master's or Doctoral Thesis or Project
600-699	Doctoral

Double Major — Students may obtain a baccalaureate degree with two majors by completing the requirements for both majors. Multiple majors will be recorded on the student's permanent record and if the student has completed the requirements for two or more majors leading to different baccalaureate degrees, those degrees and completed major(s) shall be acknowledged on the diploma and official transcript.

Earned Hours — The number of academic units completed that may apply toward degree requirements.

Electives — Courses which may be selected by the student to complete total-unit requirements. In some cases, major requirements include electives, i.e., a given number of courses in the major to be selected by the student.

Full-Time Status — Undergraduate students enrolled in 12 or more units are considered full-time. Graduate students enrolled in 8 or more units are considered full-time. **Note:** off-campus agencies may use different definitions for determining full-time status.

Minor — The minor is a pattern of courses similar to the major, but less comprehensive. Only a few majors at Sacramento State require a minor, but students who have a substantial number of elective units in their degree program should consider applying them to a minor. The number of units required for a minor varies with the department; most minors require approximately 21 units. Requirements are listed in each department's section of this catalog. A minor is posted to the official transcript but does not appear on the diploma. Minor requirements completed after graduation are not posted to the official transcript.

OneCard — Sacramento State's digital-image identification card for students. It allows students to access campus services and also functions as a debit card.

Part-Time Status — Undergraduate students enrolled in 6-11 units are considered part-time. Enrollment in less than 6 units is considered less than part-time. Graduate students enrolled in 4-7 units are considered part-time. Enrollment in less than 4 units is considered less than part-time.

Prerequisite — A prerequisite is a course or other preparation which must be completed before enrollment in an advanced course. When applicable, prerequisites are included in catalog course descriptions.

Unit — A unit represents approximately one hour of class instruction each week for one semester. Semesters usually have 15 weeks of instruction with final examinations held on the 16th week. For example, HIST 17A, having a value of three units, would meet three hours each week for a total of 45 hours of instruction. The terms "unit" and "credit hour" are used interchangeably.

BACCALAUREATE DEGREE REQUIREMENTS

Baccalaureate Degree

All baccalaureate degrees at Sacramento State require completion of the requirements listed below. Degree requirements fall into three categories: General Education requirements; major/minor requirements; and other Graduation requirements, which are subject to catalog rights policy. These requirements are derived from Title 5 of the California Code of Regulations, action of the California State University system, and University policy.

Total Units

A minimum of 120 semester units is required. Some majors require additional units. No more than 70 units taken at a community college or other two-year college may be applied to this total.

Upper Division Units

Completion of at least 39 of the total units must be in junior and senior level courses numbered 100-199 at Sacramento State. At least 9 units must be upper division General Education.

Major

Completion of a specific number and pattern of courses in one or more academic departments is defined as a major and is required for graduation. Major requirements vary from a minimum of 24 units to a maximum of 105 units, with majors for the Bachelor of Arts requiring a minimum of 12 upper division units and majors for the Bachelor of Science requiring a minimum of 18 upper division units. Students may complete the requirements for two or more majors leading to the same baccalaureate degrees concurrently. Some Sacramento State majors require an academic minor or approved area of concentration (see requirement listings by major in Academic Programs).

General Education and Graduation Requirements

All undergraduate students must complete a minimum of 48 units of General Education requirements. Approved General Education courses are listed on the online Schedule of Classes each year.

History and Government

Demonstrated competency in 'American Institutions': U.S. History, U.S. Constitution, and California state and local government is required for graduation. These requirements may be satisfied through appropriate courses in GE Area D or through examinations given each semester by the History and Government departments.

English Composition

Two semesters of college-level English Composition courses, with a grade of "C-" or higher, are required for graduation.

Code	Title	Units
Select one of the following:		
ENGL 5	Accelerated Academic Literacies	
ENGL 5M	Accelerated Academic Literacies - Multilingual	
ENGL 11	Academic Literacies II	
ENGL 11M	Academic Literacies II-Multilingual	
Select one of the following:		
ENGL 20	College Composition II	
ENGL 20M	College Composition II for Multilingual Students	
Courses articulated with ENGL 20		

Graduation Requirement in Writing Proficiency

Writing Programs Office
Calaveras Hall 101
(916) 278-6409
English Department Email (English@csus.edu)
GWAR Website (http://www.csus.edu/gwar/)

All undergraduate students must satisfy the Graduation Writing Assessment Requirement (GWAR) in order to graduate. To do so, students will follow two steps. First, they will obtain their GWAR Placement. Students must choose how to obtain their GWAR Placement, which is determined by either the Writing Placement for Juniors (WPJ) timed exam or by taking a writing course, ENGL 109W or ENGL 109M. Second, students will complete the upper-division coursework required by their GWAR Placement, including the General Education writing-intensive course, which certifies the GWAR.

Students having satisfied the Graduation Writing Requirement at other CSU campuses may be considered to have satisfied the requirement at Sacramento State. Evidence of successful completion must be provided to the Writing Programs Office.

Foreign Language

Undergraduate students are required to meet a foreign language requirement for the baccalaureate degree[1]. The policy requires proficiency to be demonstrated at a level comparable to the second semester of college level language, including American Sign Language (ASL). However, some Bachelor of Science high unit majors have been given an exemption from the Foreign Language Requirement. Those programs will be so noted in their catalog section. Students who change majors and are no longer in an exempt program will be subject to the University's Foreign Language Graduation Requirement.

Before Sacramento State Enrollment

The foreign language graduation requirement[1] may be met by any one of the following:

1. completion of the third year of a foreign language in high school (grade of "C-" or better);
2. graduation from a secondary school where the language of instruction was not English;
3. advanced Placement Foreign Language Examination scores of 3, 4, or 5; or
4. completion of two semesters of a foreign language at a community college or university, with a grade of "C-" or better.

Students will be required to submit official high school or college transcripts or other admissions documents to verify the completion of this requirement.

[1] **Note:** Students with language disabilities due to a specific learning disability, or are deaf, hearing or speech impaired, or who have sustained brain injury may, on the recommendation of the Director of Services for Students with Disabilities, satisfy the requirement in one of several alternative ways

After Sacramento State Enrollment

If the language requirement has not been completed through one of the above options, students must meet the Sacramento State foreign language graduation requirement by completing one of the following options:

1. passing intermediate-level tests in two of four skills: reading, writing, listening, and speaking. One of the tests passed must be in reading or writing;
2. passing an advanced-level proficiency test in reading. Contact the Department of World Languages and Literatures (Mariposa 2051, (916) 278-6333) for more information; or
3. completing the second semester or equivalent (1B) of a college-level language (including ASL) course with a grade of "C-" or better.

Race and Ethnicity in American Society

All students must complete a three-unit course designated as meeting the Race and Ethnicity in American Society requirement. Courses meeting this requirement may also be used to satisfy the University's G.E. Area requirements. Transfer students may satisfy this requirement at a community college, upon completion of an appropriate course. Courses meeting this requirement taken at Sac State by G.E.-certified students may be used to satisfy portions of the G.E. residence requirement and, in the case of approved upper division courses, the G.E. upper division unit requirement.

Residence

At least 30 of the total units must be taken on the Sacramento State campus. A minimum of 24 of these units must be upper division, including at least 12 upper division units in the major (except for Business Administration, English, and Psychology which require 15 units). Sacramento State units earned by extension and/or challenge examination do not count toward the Sacramento State residence credit requirement.

Grade Point Average

An overall grade point average (GPA) of 2.0 is required in five areas:

1. total courses (cumulative GPA);
2. Sacramento State courses ;
3. upper division courses applied to the major;
4. courses applied to the minor, and
5. courses used to complete General Education requirements.

Departments may impose additional grade and GPA requirements (e.g., a department may require a "C-" or better in every course which is applied to the major).

General Education Program

Sacramento Hall 234
(916) 278-5344
Office of Undergraduate Studies Website (http://www.csus.edu/acaf/ge/)

One of the principles on which a modern university rests is the assumption that there is an important difference between learning to make a living and building the foundation for a life. While the first goal is important, the second is fundamental.

In focusing on the students' development as whole or "educated" people, a university distinguishes itself from a trade school. The goal of a university education is not simply the acquisition and application of knowledge, but the creation of people who firmly grasp the worth of clear thinking and know how to do it; who understand and appreciate the differences between peoples and cultures as well as their similarities; who have a sense of history and social forces; who can express thought clearly and have quantitative ability; who know something about the arts as well as how to enjoy them; who can talk and think intelligently about the physical and life sciences, the humanities, and literature; and, above all, who have the desire and capability for learning. This goal is why a university degree is so highly valued by individuals, employers, and the community at large.

The Sacramento State General Education Program is designed to educate in this holistic sense. Thus, it is not simply a series of courses to complete or hoops for students to jump through as they complete the courses in their major. Rather, general education lies at the heart of what a university education is all about.

Therefore students should carefully select courses and actively seek subject areas that are new and may challenge their world-views or cherished assumptions and offer new experiences, such as inquiry-based or community-based learning. In short, students shouldn't take the easy way out. This is their opportunity to lay the foundation for the rest of their lives, and to define themselves as educated members of the human community. Their time at the university is precious and the General Education Program has been designed to help them begin the process of becoming truly educated people. In deciding to pursue a university degree, they have chosen well and should make the best use of the opportunities open to them.

Objectives

Upon completion of the General Education Program requirements, students will be expected to:

- read, write, and understand relatively complex and sophisticated English prose;
- construct a non-fallacious verbal argument, recognize fallacious arguments, and follow the verbal arguments of others;
- find and use common information resources, engage in specialized library research, use computers and seek out appropriate expert opinion and advice;
- use mathematical ideas to accomplish a variety of tasks;
- gain a general understanding of current theory, concepts, knowledge, and scientific methods pertaining to the nature of the physical universe, ecosystems, and life on this planet;
- develop an acquaintance and understanding of cultures and major dynamic social institutions which affect one's life; and
- possess a significant and useful understanding of peoples from a diversity of cultures and backgrounds, including women and ethnic and other minority groups who have been the objects of prejudice and adverse discrimination within our society.

In addition to these basic skills, courses in the sciences, arts, humanities, and social sciences have been selected to help students attain the university's baccalaureate learning goals and to satisfy particular GE Area Learning Outcomes. The Baccalaureate Learning Goals include:

- **Competence in the Disciplines**: The ability to demonstrate the competencies and values listed below in at least one major field of study and to demonstrate informed understandings of other fields, drawing on the knowledge and skills of disciplines outside the major.
- **Knowledge of Human Cultures and the Physical and Natural World** through study in the sciences and mathematics, social

sciences, humanities, histories, languages, and the arts. Focused by engagement with big questions, contemporary and enduring.

- **Intellectual and Practical Skills, Including**: inquiry and analysis, critical, philosophical, and creative thinking, written and oral communication, quantitative literacy, information literacy, teamwork and problem solving, practiced extensively across the curriculum, in the context of progressively more challenging problems, projects, and standards for performance.
- **Personal and Social Responsibility, Including**: civic knowledge and engagement—local and global, intercultural knowledge and competence[1], ethical reasoning and action, foundations and skills for lifelong learning anchored through active involvement with diverse communities and real-world challenges.
- **Integrative Learning[2], Including**: synthesis and advanced accomplishment across general and specialized studies.

[1] Understanding of and respect for those who are different from oneself and the ability to work collaboratively with those who come from diverse cultural backgrounds.

[2] Interdisciplinary learning, learning communities, capstone or senior studies in the General Education program and/or in the major connecting learning goals with the content and practices of the educational programs including GE, departmental majors, the co-curriculum and assessments.

Sacramento State General Education courses are designed, selected, and approved by the faculty to meet these program objectives. Students will benefit from consultation with the Academic Advising Center or advisors in their major departments in planning their General Education course choices. Students may search the online Schedule of Classes by Area or other specification(s) for currently available GE courses.

Course Requirements

Courses have been approved to meet the 48-unit General Education pattern required of Sacramento State students. In addition, a second semester composition course and demonstration of proficiency in a foreign language are required for graduation. (See GE requirements for a description of these requirements.) Students must choose their General Education classes from the Areas and classes listed in the catalog.

General Education Policies

- All upper division GE courses require at least second semester sophomore standing (45 units) and completion of all GE Area A courses as prerequisites.
- At least 9 units must be chosen from upper division GE courses (100-199) and at least 9 units must be taken in residence at Sacramento State (these units may overlap).
- The Writing Intensive course may be counted as upper division GE if it is listed as a GE course. Students must complete the course with a C- or higher to certify the GWAR.
- Each course taken to satisfy the Area A Basic Subjects and Area B4 Quantitative Reasoning must be completed with a grade of "C-" or higher.
- A 2.0 cumulative GPA is required in General Education.

Overlap Between General Education and Majors/Minors

General education requirements include five areas (A-E) in which you must take courses (area requirements), a nine-unit upper division requirement, a Race and Ethnicity requirement, and a Writing Intensive requirement. The overlap possibilities among these four aspects of General Education are outlined below. Students needing help applying these overlap policies are encouraged to see an advisor in the Academic Advising and Career Center, Lassen Hall 1013.

1. The Race and Ethnicity requirement can be met with an upper or lower division course from a student's major or major department. Example: A Social Work major can use SWRK 102 to meet the Race and Ethnicity requirement.
2. The Writing Intensive requirement can be met with a course from the major or major department in specified majors, but not in all majors.
3. There is no restriction on the overlap of courses between GE and minor requirements.
4. There is no restriction on the overlap of courses between GE and major courses.

Transfer Students

Transfer students who have completed lower division General Education requirements at a California community college, including those certified under the Intersegmental General Education Transfer Core Curriculum (IGETC), and/or those in receipt of an Associate Degree for Transfer (ADT), are required to complete 9 units of upper division GE at Sacramento State, meet the foreign language proficiency graduation requirement, meet the state "code" requirements in U.S. History, American and California Government, and the writing intensive requirement. These 9 units may or may not include the writing intensive requirement, depending on the policy of the student's major department. Students who have not completed an approved course for the "Race and Ethnicity in American Society" category at a community college must take a course in this category at Sacramento State. In addition, all transfer students, except those fully certified as having completed the IGETC or ADT core curriculum, must complete the required second semester composition course or an approved course at a community college.

For more information about IGETC requirements and/or Associate Degrees for Transfer, contact your community college counselor.

Second Bachelor's Degree Requirements

Students who hold a bachelor's degree from regionally accredited institutions of higher education may be admitted to a second bachelor's degree program. Students admitted are considered postbaccalaureate students.

Admissions criteria are:

1. Have a minimum 2.5 grade point average on the last 60 semester units of baccalaureate and/or graduate level courses.

Graduation requirements are:

1. An overall grade point average of 2.5 is required in **four** areas:
   a. total courses
   b. Sacramento State courses as a second bachelor's student;
   c. upper division courses applied to the major, and
   d. courses applied to the minor.
2. Complete the content requirements for the second degree as specified by the department. Units from the first degree may be counted, but a minimum of 24 upper division residence units (Sacramento State courses) in the major subsequent to earning the first bachelor's degree are required.
3. Complete a minimum of 30 units in residence at Sacramento State beyond the first bachelor's degree. Of the 30 units, 24 must be upper division in the major. **Note:** Former Sacramento State students who have completed 6 or more residence units will be held to 24 upper

division units in the major and in residence. Extension and credit by examination units do not meet the residence requirement.

4. If you have not already completed the Graduate Writing Assessment Requirement (GWAR) at Sacramento State or at another approved campus as part of the first bachelor's degree, then you must take the Writing Placement for Juniors (WPJ) timed essay examination in which a passing score certifies the GWAR. If you fail the WPJ, you will need to take ENGL 109M or ENGL 109W: a passing grade in the class certifies the GWAR. If completed elsewhere, written verification is required.
5. Submit a graduation application with approval from the department chair of the major in which they seek the degree. Advising for the major takes place within the department.

Registration priority is that of an unclassified graduate student.

Scholarship

Second bachelor's degree candidates are expected to achieve a minimum Sacramento State and overall cumulative grade point average of 2.5 each semester to maintain good academic standing, the same as unclassified graduate students. Students are subject to academic probation the first term the student's term and overall grade point average is below 2.5. While on academic probation, if the student's subsequent term and overall grade point remain below a 2.5, the student will be academically disqualified. A student will be academically disqualified immediately if the overall cumulative grade point average is below 2.0.

Students who meet grade point average requirements stated above will be placed on Academic Warning if they earn a 'NC', No Credit, grade in a semester. Grades of 'NC' earned in subsequent consecutive semesters will result in Academic Probation, Continued Probation or Disqualification, depending upon the number of 'NC' grades earned and the semester grade point average.

Candidates must file for graduation **TWO SEMESTERS** prior to the date of graduation. Graduation Application forms are available at the Office of the University Registrar, Lassen Hall.

Note: A second bachelor's degree cannot be awarded in the same major nor in any closely-related field.

Catalog Rights

Undergraduate students maintaining attendance in any combination of California community colleges and campuses of the California State University receive "catalog rights" in the election of regulations determining graduation requirements. Students may elect the requirements in effect at

1. the year they began their study at a California community college or CSU campus OR
2. the year they entered Sacramento State OR
3. the year they graduate from Sacramento State

Attendance is defined as enrollment in at least one semester or two quarters in each calendar year. Once catalog rights are established, absence related to an approved educational leave or for attendance at another accredited[1] institution is not to be considered an interruption, providing the above attendance criteria are met and the absence does not exceed two years.[2]

While catalog rights hold degree requirements, they do not shield students from changes in prerequisites required in a given course. Prerequisite requirements, which all students must follow, are those stated in course descriptions in the current catalog. The only exceptions to this are in cases in which the addition of course prerequisites also increases the number of units required in the major and minor. In these cases, students are encouraged to meet current course prerequisites, but are not required to do so.

1 **Note:** Regional Accrediting Associations: the Associations of Colleges and Schools of the Middle States, North Central, Northwest, Southern and Western regions.

2 See also Registration/Leaves of Absence.

Overlapping Credit

Undergraduate

The University allows course credit to overlap in completing major and minor requirements, provided that minimum University policy has been met with regard to content requirements and total units.[1] For the Bachelor of Arts degree, a major requires a minimum of 24 non-overlapping units of which 12 must be upper division.

For the Bachelor of Science degree, a major requires a minimum of 36 non-overlapping units of which 18 must be upper division. Any remaining units may be used for a second major or a minor.

1 See also Baccalaureate Degree Requirements/Overlap between General Education and Majors/minors.

Postbaccalaureate Credit Earned as an Undergraduate

The University will allow Sacramento State undergraduate students to petition to receive postbaccalaureate credit for courses in excess of all undergraduate degree requirements (major, minor, general education, total units, residence) if they are taken in the semester of graduation and students have a cumulative GPA of 2.75 or better. No more than six units can be applied towards a master's degree. If approved, credit will be designated as "graduate credit" toward a master's degree or credential and is discounted from undergraduate statistics and honors calculations. Sacramento State students seeking approval to use excess units toward a master's degree must submit a "Petition for Exception" to the Office of Graduate Studies during the last semester of undergraduate enrollment. Petitions must be filed with the Graduate Studies Office prior to graduation.

Application for Graduation

Degree Evaluations Office
Office of the University Registrar
Lassen Hall, Room 2000
(916) 278-1000

Students must apply for graduation. **Academic degrees are not granted automatically when students complete their degree requirements.**

Students are eligible to file a bachelor's degree application one semester prior to graduation once they have completed a minimum of 85 units. Refer to the Evaluations Office Graduation Website (http://www.csus.edu/registrar/graduation/), for filing procedures and timelines. Notification via email is sent when the graduation evaluation is completed by the Degree Evaluations Office. Graduating seniors may contact the Degree advisors in the Office of the University Registrar to discuss their Graduation Evaluation and any remaining degree requirements.

Posting of Degrees

After grades become available for the semester of requested graduation, the Degree Evaluations Office will review the Graduation Evaluation for completion of all degree requirements. Those completing all requirements will have their degree major/minor and date of completion posted to their official academic transcript of record. Diplomas are mailed to students approximately two months after grades become available. Students attending graduation ceremonies do so as candidates for the degree. The degree is conferred only after all degree requirements have been completed, and the diploma and transcript of record reflect that semester's graduation date. Students who have not completed all requirements will be notified by email and should contact the Degree Evaluations Office for assistance in developing plans for degree completion. Degree Advisors are available for assistance at all stages of the graduation process.

Notes:

- A student may not register for the semester following his/her intended graduation unless the intended degree date is canceled or changed, or the student has applied for and has been admitted to Sacramento State as a graduate student. Students may change their graduation date on their graduation application via their Student Center or by filing a Bachelor's Degree Date Change form with the Degree Evaluations Office in Lassen Hall.
- Participation in the commencement ceremony does not constitute graduation. Degrees are conferred only after all requirements have officially been cleared.

Graduating in Absentia

Students who have fulfilled the degree residence requirements may be permitted to complete final requirements at other regionally accredited colleges or universities by petitioning to graduate "in-absentia." Approval to graduate in absentia must be requested in advance. Major or minor course substitutions are to be approved by the appropriate academic departments, and general education courses must be approved through the Degree Evaluations Office. Approval for graduation in-absentia will hold catalog requirements and degree candidacy for one year.

GRADUATE DEGREE REQUIREMENTS

Office of Graduate Studies

River Front Center 215
(916) 278-6470
www.csus.edu/graduate-studies (http://www.csus.edu/gradstudies/)

Institutional Graduate Learning Goals

The campus has articulated minimum learning requirements for recipients of graduate degrees. For each Institutional Graduate Learning Goal, students are expected to achieve a level of competency associated with an advanced degree, as appropriate to the discipline. In addition, each program may set Program Learning Goals and Outcomes that are mapped onto the curriculum and assessed.

Institutional Graduate Learning Goals for Masters Programs

1. **Disciplinary knowledge**: Master, integrate, and apply disciplinary knowledge and skills to current, practical, and important contexts and situations.

2. **Communication**: Communicate key knowledge with clarity and purpose both within the discipline and in broader contexts.

3. **Critical thinking/analysis**: Demonstrate the ability to be creative, analytical, and critical thinkers.

4. **Information literacy**: Demonstrate the ability to obtain, assess, and analyze information from a myriad of sources.

5. **Professionalism**: Demonstrate an understanding of professional integrity.

6. **Intercultural/Global Perspectives**: Demonstrate relevant knowledge and application of intercultural and/or global perspectives.

Institutional Graduate Learning Goals for Doctoral Programs

All of the above Institutional Graduate Learning Goals for Masters Programs, with the addition of:

7. **Research**: Conduct independent research resulting in an original contribution to knowledge in the focused areas of their graduate program.

General Program Requirements

Master's Degree Unit Requirements

Each master's degree program must include a minimum of 20 approved units in the major subject area. These shall normally include a minimum of 18 units in a 30-40 unit degree program and 36 units in a 60 unit degree program of regularly scheduled 200-level courses requiring student participation as the primary instructional method and seminar courses requiring formal presentations by students. Units earned for thesis or project may contribute toward establishing the major, but they are not permitted in the required units in 200 level seminar courses. No more than 6 units of 295, 299, or non-seminar courses may be counted towards the degree.

The total number of units required for master's degrees vary depending on the field and the degree sought. Master of Arts and Master of Science degrees require a minimum of 30 semester units of approved graduate credit. However, the minimum units for some master's programs may be higher, for example:

- Master of Science in Counseling requires minimum of 60 semester units
- Master of Business Administration degree requires from 31 to 52 semester units of approved graduate credit depending upon the student's background in business administration at the time of admission
- Master of Social Work degree requires minimum of 60 semester units

Doctoral Degree Unit Requirements

The Doctor of Education degree requires a minimum of 60 semester units of approved graduate coursework. This must include a minimum of 48 units of regularly scheduled doctoral courses organized primarily for doctoral students. Units earned for the qualifying examination, or dissertation should not exceed 12 units and may contribute toward the major, but they are not permitted in the required 48 unit minimum. An oral defense of the dissertation is required.

The Doctor of Physical Therapy degree requires at least 90 semester units earned in graduate standing. At least 72 semester units required for the degree shall be in courses organized primarily for doctoral students, and the remaining units required for the degree shall be in courses organized primarily for doctoral students or courses organized primarily for master's and doctoral students. No more than eight semester units shall be allowed for the doctoral project and an oral defense of the doctoral project shall be required.

Graduate Transfer Credit

Graduate transfer credit (with a grade of "B" or better) toward a doctoral or master's degree at Sacramento State may be considered only if the coursework has not been used previously to complete another degree and the coursework must be current (within the time limit to complete the master or doctoral degree)[1] A maximum of 6 units may be transferred as determined by appropriate campus authorities.

[1] See Time Limit for more information.

Master's Degree Academic Residence Requirements

A minimum of 21 approved semester units in 100-, 200-, and 500-series offerings in a 30-unit Master's program must be earned in residence at Sacramento State. Three-hundred- level (methods) courses, student teaching, extension courses offered by Sacramento State, or work completed at other accredited institutions do not meet residence requirements.

Doctoral Degree Academic Residence Requirements

A minimum of 42 approved semester units in the 600 series in a 60 unit Education Doctoral program must be earned in residence at Sacramento State. For the Doctor of Physical Therapy program, No fewer than 60 semester units shall be completed in residence at Sacramento State. At the discretion of the appropriate campus authority, courses required for the DPT that are completed at another CSU campus may apply toward the residency requirement.

Graduate Writing Assessment Requirement (GWAR)

All students must demonstrate competency in writing skills as a requirement for graduation. Writing proficiency at the graduate level will be demonstrated by successful completion of the graduate program requirements. Students' preparedness for graduate level writing may be demonstrated by meeting one of the standards specified on the Writing

Placement for Graduates Waiver Form (www.csus.edu/graduate-studies (http://www.csus.edu/gradstudies/)). Students who do not meet one or more of these standards must either take the Writing Placement for Graduates (WPG) timed essay examination or take a Graduate Writing Intensive (GWI) course in their discipline within their first two semesters of coursework at California State University, Sacramento. Students whose performance on the WPG exam indicates that they do not need additional writing preparation may advance to candidacy when appropriate. Students whose WPG exam performance indicates they need additional preparation may elect to either take a GWI course within their discipline (if available) or enroll in ENGL 220W Writing in Your Discipline via the College of Continuing Education; students must earn a grade of 'B' or above in either course in order to advance to candidacy. Failure to demonstrate proficiency in a timely fashion may result in a student's declassification from a degree program and require an application for readmission to the University.

Foreign Language

A reading knowledge of a foreign language may be required in some liberal arts areas. Students should consult their Graduate Coordinator to determine if foreign language requirements apply in the particular field in which they plan to take the doctoral or master's degree.

Advancement to Candidacy

Advancement to Master's Candidacy

Each student who plans to become a candidate for a master's degree is required to do the following:

1. be admitted to classified graduate standing in the graduate degree curriculum for which candidacy is sought;
2. complete at least 40 percent of the graduate degree coursework and meet any special departmental requirements in the field in which they propose to take the degree; and
3. file an application for advancement to candidacy for the master's degree.
   a. Must be submitted to the Office of Graduate Studies by October 1 for the spring semester and February 1 for the fall semester in order to register for Culminating Experience during priority registration.
   b. The Office of Graduate Studies will review the petition and process results within six to eight weeks.

Eligibility for advancement to candidacy is based upon the following:

1. Scholarship in undergraduate and graduate work taken prior to advancement as follows:
   a. A satisfactory undergraduate preparation for admission to classified graduate standing in the graduate degree program.
   b. A minimum cumulative grade point average of 3.0. No grade below a "B" may be counted toward the degree requirement unless expressly permitted by a campus-approved graduate programs' written policies.
   c. A total of 18 units of 200-level seminar courses must be listed.
   d. No more than a total of six units of 295, 296, or 299 may be counted toward the degree.
2. Evidence of a plan of graduate study acceptable to the institution and the faculty concerned.
3. Fulfilled Writing Placement for Graduates (WPG) requirement.

Advancement to Doctoral Candidacy

Initiation of advancement to candidacy procedures is the responsibility of the student. Each student who plans to become a candidate for the doctoral degree is required to do the following:

1. be admitted to classified standing in the doctoral degree program in which candidacy is sought;
2. have completed all coursework to qualify for the Qualifying Examination with a B or better in each course and a minimum cumulative grade point average of 3.0 in all courses taken;
3. successfully passed the written and oral Qualifying Examination by Unanimous agreement of the qualifying examination committee;
4. file an application for advancement to candidacy for the doctoral degree at the Office of Graduate Studies.
   a. Must be submitted to the Office of Graduate Studies by February 1 for eligibility to enroll in dissertation units for the Summer term.
   b. The Office of Graduate Studies will process within four to six weeks.

Eligibility for advancement to doctoral candidacy is based upon the following:

1. Scholarship in doctoral work taken prior to advancement as follows:
   a. Satisfactory completion of any preparation coursework required for admission to classified graduate standing in the doctoral degree program.
   b. A minimum cumulative grade point average of 3.0. No grade of less than "B" can be counted toward the minimum number of units needed to advance to candidacy.
   c. A total of 48 units of 600-level seminar courses must be listed.
2. Evidence of a plan of graduate study acceptable to the institution and the faculty concerned.
3. Successfully fulfilled the Qualifying Examination requirement.
4. Fulfilled Writing Placement for Graduates (WPG) requirement.

Culminating Experience Requirement

Master's Culminating Requirement

A thesis is required under Plan A, a project is required under Plan B, and a comprehensive examination is required under Plan C. Students are eligible to enroll for full or partial credit for their theses or projects at any time after being advanced to candidacy, subject to approval by their faculty advisors. Credit is granted upon completion.

Each department offers one or more or a combination of the following plans:

Plan A: Thesis

A thesis is the written product of the systematic study of a significant problem. It clearly identifies the problem; states the major assumptions; explains the significance of the undertaking; sets forth the sources for, and methods of gathering information; analyzes the data; and offers a conclusion or recommendation. The finished product must evidence originality, critical and independent thinking, appropriate organization and format, clarity of purpose, and accurate and thorough documentation. Normally an oral defense of the thesis will be required.

Plan B: Project

A project is a significant undertaking of a pursuit appropriate to the fine and applied arts or to professional fields. It must evidence originality and independent thinking, appropriate form and organization, and a rationale.

It must be described and summarized in a written abstract that includes the project's significance, objectives, methodology, and a conclusion or recommendation. An oral defense of the project may be required. Some samples of types of projects are outlined below:

1. A Creative Project in the Arts: an original contribution to the verbal, visual, or performing arts. Examples include a music recital; a musical composition; a completed novel or play; a completed collection of short stories or poems; direction of a theatrical production; a gallery showing of works of art.
2. A Curriculum Project: a project that contributes to a field of teaching by enhancing communication of a subject matter. Examples include a course of study; a teacher's guide; an instructional manual; a design for a new teaching method; the development of new teaching materials.
3. A Research Project: a project which contributes to the physical sciences, natural sciences, social sciences, humanities, or the professions, by adding to technical/professional knowledge in the professional field. Examples include building a device; designing an experiment; a field study; a case study; a documentary report; a professional article of publishable quality.

The fulfillment of any of the above culminating requirements must conform to the appropriate requirements of the Sacramento State Thesis and Project Format Requirement Guides.

Plan C: Comprehensive Examination

A comprehensive examination should test the range of subject matter covered in the student's graduate program. The department may opt for an examination that is written, oral, or a combination of written and oral. Ordinarily the examination will be given in the student's last semester before the student plans to receive the degree, and in no instance can a student who has not been advanced to candidacy take the examination.

At least three examiners must certify to the success or failure of the student in the examination. A simple majority determines whether the student has passed or failed. The results of the examination must be submitted to the Office of Graduate Studies on the "Report of Comprehensive Examination' form. A student may repeat the examination once after a failure, provided that at least four calendar months have lapsed since the previous examination. A third trial is not allowed unless extreme extenuating circumstances are demonstrated by the department and approved by the Dean of Graduate Studies.

This culminating experience option cannot be changed once the initial examination has been administered.

Doctoral Culminating Requirement

A qualifying examination, proposal examination, dissertation (Ed.D.) or doctoral project (DPT), and oral defense are required for the doctoral degree at Sacramento State.

Qualifying Examination

The qualifying examination is designed to provide evidence toward validation of the candidate's advanced training in educational leadership. The student must unanimously pass the qualifying examination prior to advancing to doctoral candidacy and enrolling in dissertation units.

At least three examiners must certify to the success or failure of the student in the examination, and the results of the examination must be submitted to the Office of Graduate Studies on the "Report of Qualifying Examination' form. A unanimous decision on passing is required. A student may repeat the examination once after a failure, provided that at least four calendar months have lapsed since the previous examination. A third trial is not allowed unless extreme extenuating circumstances are demonstrated by the department to the Dean of Graduate Studies.

Proposal Examination

The dissertation (Ed.D.) proposal will normally contain a description of the problem, a review of the relevant literature, a statement of the research question, and a description of the research methodology. The proposal must contain either (i) materials already submitted to the Institutional Review Board regarding the proposed dissertation research or (ii) materials completed for submission to the Institutional Review Board to meet human subjects' requirement.

1. The dissertation proposal examination is normally conducted by a three faculty member committee. A written report will be provided by the committee members to communicate: (1) approval; (2) approval with modifications, or (3) lack of approval.
2. The results of the dissertation proposal examination will be communicated to the Office of Graduate Studies on the 'Report of Dissertation Proposal Examination' form. The form shall be accompanied by a copy of the dissertation proposal.

The Doctoral Project Proposal (DPT) must demonstrate students' understanding of the application of current evidence-based practice in a multicultural and complex health care environment. The proposal must be of sufficient rigor to ensure students' demonstrations of critical and independent thinking and abilities to interpret the research literature and apply to current physical therapist practice. The proposal includes a written document with the following chapters; General Background, Case Background Data, Examination Tests and Measurements, Evaluation, Plan of Care-Goals and Interventions, Outcomes, and Discussion. An oral defense before a three member doctoral proposal committee is also required.

Dissertation (Ed.D)

A dissertation shall be the written product of systematic, rigorous research on a significant professional issue. The dissertation is expected to contribute to an improvement in professional practices or policy. It shall evidence originality, critical and independent thinking, appropriate form and organization, and a rationale.

The dissertation shall identify the research problem and questions(s), state the major theoretical perspectives, explain the significance of the undertaking, relate it to the relevant scholarly and professional literature, set forth the appropriate sources for and methods of gathering and analyzing data, and offer a substantiated conclusion or recommendation(s). It shall include a written abstract that summarizes the significance of the work, objectives, methodology, and a conclusion or recommendation(s). All members of the dissertation committee must approve the written work.

Project (DPT)

The Doctoral Project/Culminating Experience may include evidence-based practice projects, clinical research projects, or case reports consistent with the Chancellor's Office Executive Order. Culminating events must demonstrate students' understanding of the application of current evidence-based practice in a multicultural and complex health care environment. They must be of sufficient rigor to ensure students' demonstrations of critical and independent thinking and abilities to interpret the research literature and apply to current physical therapist practice. The doctoral project includes a written document with the following chapters; General Background, Case Background Data,

Examination Tests and Measurements, Evaluation, Plan of Care-Goals and Interventions, Outcomes, and Discussion

Oral Defense

An oral defense of the dissertation or project is required. The student must notify the Office of Graduate Studies of his/her intent to defend the dissertation/project 30 days prior to the defense. A notice of the date, time, and place of the defense must be posted in a public place for 14 calendar days prior to the dissertation oral defense. The notice should include the title of the dissertation/project and a brief 150 word abstract.

Graduate and Post-Baccalaureate [1] Academic Action Categories

[1] *Graduate and Post-baccalaureate Academic Action Categories listed below do not apply to post-baccalaureate students pursuing a second bachelor's degree*

Good Standing

Graduate, credential, certificate and unclassified students whose Sacramento State and cumulative grade point average (GPA) is 3.0 or above are considered in good academic standing.

Academic Probation

Students whose cumulative Sacramento State grade point average or overall grade point average falls below 3.0 will be placed on academic probation. Students on probation are eligible to enroll in the subsequent semester.

Continued Probation

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

- earn a 3.0 in the semester, but have a Sacramento State GPA and/or overall GPA below 3.0.

Students placed on Continued Probation will be limited to a maximum course load of 9 units per semester until they return to academic good standing.

Academic Disqualification

If a graduate, credential, certificate, or unclassified student is on academic probation and the Sacramento State or cumulative grade point average is below 3.0 for the active term, the student will be academically disqualified.

Students not on probation will be disqualified if the Sacramento State or cumulative GPA is 2.0 or less.

Disqualified students will not be allowed to register unless they are formally reinstated and/or readmitted to the University.

Administrative Probation and Administrative Disqualification

Graduate, credential, certificate, and unclassified students are subject to Administrative Probation for the following reasons:

1. Withdrawal from all or a substantial portion of their courses in two successive terms or in any three terms.
2. Repeated failure to progress toward a degree or other program objective, when such failure is due to circumstances within the control of the student.
3. Failure to comply, after due notice, with an academic requirement or regulation.

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

Notification

The Office of the University Registrar will notify students of their academic status (academic probation, continued probation, or academic disqualification) by letter, My SacState message, and/or email at the end of each semester. Graduate, credential, certificate, and unclassified students on Probation or Continued Probation are required to meet with an advisor in their major department, the credential office or the Office of Graduate Studies. Academic departments and units may block registration of students who fail to meet advising appointments. Students receiving veterans' educational benefits may be ruled ineligible for continued benefits if, after one semester of unsatisfactory achievement (probation or disqualification), they do not return to academic Good Standing at the completion of the next semester.

Reinstatement of Disqualified Students

Students who have been academically disqualified may petition for reinstatement. The Petition for Reinstatement is obtained from the Office of Graduate Studies. If reinstated, students will be placed on an academic contract that may stipulate maximum units, specific courses and achievement levels. Failure to meet the conditions of the reinstatement contract and/or failure to achieve a subsequent semester GPA of 3.0 or higher will result in academic disqualification.

Students who are administratively disqualified or not recommended by their academic department for continuation in the graduate degree, credential, or certificate program must formally apply to the University as well as a graduate degree, credential, or certificate program and submit a petition for reinstatement. Reinstated unclassified students will not be allowed to enroll in graduate level courses during the period of the reinstatement contract without the permission of the department chair or designee for that major.

Deadlines to petition for immediate reinstatement are as follows:

- Third week of January for Spring Semester
- End of June for Fall Semester

NOTE: Please check the Office of Graduate Studies Web site www.csus.edu/gradstudies (http://www.csus.edu/gradstudies/) for specific dates and forms.

Students whose petitions are approved are subject to review each semester until the Sacramento State GPA and overall cumulative GPA reach the minimum standard of 3.0. Students may not earn the degree, credential, or certificate unless they are in good academic standing and their Sacramento State GPA and overall cumulative GPA reach the minimum standard of 3.0.

Continuous Enrollment

Classified graduate, post-baccalaureate, credential, or certificate students normally retain rights to the catalog and/or degree program requirement under which they were classified, providing they remain continuously enrolled. Students who do not stay continuously enrolled lose classified graduate standing or post-baccalaureate standing and will be required to apply for readmission. Such students may be required to fulfill additional

program and/or university degree requirements that are current at the time of readmission.

Continuous Enrollment (599) During the Culminating Experience through the College of Continuing Education (CCE)

Graduate students who have been advanced to candidacy and who have completed all coursework can maintain the required active degree program status without additional University registration by enrolling in "599 Continuous Enrollment" through CCE. There are no units associated with this enrollment, but a CCE fee equal to one unit is required. Such enrollment is valid as long as the student is within the time period allowed for the completion of the culminating experience requirement.

Continuous Enrollment (599) for the Master's Degree

If not otherwise actively registered at the University, students completing a thesis, project, or comprehensive exam who did not complete the culminating work in the semester of original enrollment must enroll in "599 Continuous Enrollment" and pay the associated 599 enrollment fee. Students may be allowed up to a maximum of three semesters of 599 enrollment beyond the semester of original enrollment to complete the culminating requirement according to the requirements of the graduate program.

Students who do not finish the master's thesis/project/comprehensive exam within the semester of original enrollment will receive a grade of "RP" provided that satisfactory progress has been made toward completion of the culminating experience. The "RP" grade will remain as long as progress is made toward completion and "599 Continuous Enrollment" is maintained in the subsequent semester(s) as allowable by the graduate program.

If the student does not complete the culminating experience within the total allowable semesters, a No Credit ("NC") grade will be assigned for the original units. The 'NC' remains as part of the academic record. If the seven-year deadline for the Master's degree program has not expired, the student must re-enroll in the culminating experience units within the next semester and pay University fees before continuing the program. Failure to maintain continuous enrollment will result in the need to file an admission application and all related fees during the next available open admission cycle.

Continuous Enrollment (599) for Ed.S. and Doctoral Degrees

If not otherwise actively registered, students completing an Education Specialist in School Psychology (Ed.S.), Education Doctorate (Ed.D.), or Doctor of Physical Therapy (DPT) who do not complete the culminating work in the semester of original enrollment in their culminating requirement must enroll in "599 Continuous Enrollment" and pay the associated 599 enrollment fee. Students are allowed up to a maximum of two semesters of 599 enrollment beyond the semester of first registration to complete the culminating work.

Students who do not finish the Ed.S., Ed.D. or DPT culminating work within the semester of original enrollment will receive a grade of "RP" provided satisfactory progress has been made toward completion of the culminating experience. The "RP" grade will remain as long as progress is made toward completion and "599 Continuous Enrollment" is maintained the subsequent semester(s).

If the student does not complete the culminating experience within the total allowable semesters (a maximum of two semesters), a No Credit ("NC") grade will be assigned for the original units. The 'NC' remains as part of the academic record. If the five-year deadline for the Ed.S. or Doctoral degree program has not expired, the student must re-enroll in the culminating experience units within the next semester and pay University fees before continuing the program. Failure to maintain continuous enrollment will result in the need to file an admission application and all related fees during the next available open admission cycle.

Time Limit

All requirements for the master's degree must be completed within seven (7) years immediately prior to graduation.

All requirements for the doctoral degree must be completed within five (5) years immediately prior to graduation.

ACADEMIC SUPPORT SERVICES

Advising

General Education Advising
Lassen Hall 1013
(916) 278-1000
www.csus.edu/acad (http://www.csus.edu/acad/)

Effective intentional academic advising is essential to accomplishing the University's instructional mission. **Through collaboration and academic guidance, the Academic Advising Center fosters a developmental process of assisting undergraduate students in clarifying and achieving their personal, professional, and educational goals.** Students are encouraged, and in some circumstances, required to meet with a professional or faculty advisor at least once a semester.

Advisors help students:

- Understand the value of the University's General Education program, and the relationship of this program to individual interests and career objectives;
- Interpret and apply University policies;
- Ensure they are taking the courses for timely progress to degree; and
- Explore educational and career objectives compatible with their interests and abilities.

The ultimate responsibility for academic success rests with the student, who is expected to:

- Be aware of and comply with the University's academic policies, procedures, and deadlines;
- Be familiar with the My Sac State Student Center including the KEYS to Degree toolbox;
- Meet regularly, at least once each semester, with an advisor in the major and an advisor in the Academic Advising Center; and
- Declare/Change their **major** when appropriate. The form is available online at http://www.csus.edu/registrar/forms/.

Because of the relationship between proactive advising and academic success, first year and transfer students are required to attend New Student Orientation. In addition, first year students are required to complete advising during their first two semesters at Sacramento State. It is recommended that students also meet with advisors in their major. All students on academic probation are required to meet with an advisor in their department and all second year students on probation are required to meet with the Academic Advising Center. Undeclared and Expressed Interest majors must officially declare a major before earning 60 **units**.

A complete list of the Academic Advising Center's programs and services can be found at www.csus.edu/acad **(**http://www.csus.edu/acad/**)**

Faculty Advisor

Advisors in the academic departments help students select appropriate major courses each semester and are also helpful in exploring career options specific to their major or concentration.

New Student Orientation

csus.edu/orientation (http://www.csus.edu/orientation/)

Orientation is required for all new first year and transfer students. The program is designed to help students make a successful transition from their previous college or high school to Sac State. During Orientation, student orientation leaders meet with small groups of new students to discuss academic requirements, advising tools and offer helpful tips regarding campus resources and student life. In addition, new students meet with their major department advisors and register for courses. New fall students attend Orientation during the summer, while new spring students attend Orientation in January. Program details (including the Parent/Guest program) are located on the New Student Orientation website.

Specific Advisors

Student-Athlete Resource Center

Lassen Hall 3002
www.csus.edu/sarc (http://www.csus.edu/sarc/)
(916) 278-5431; (916) 278-7796

The Student-Athlete Resource Center (SARC) is designed to enhance the academic and overall life development experience for NCAA Division I student athletes at Sacramento State. The SARC assists student-athletes in pursuing and successfully completing a college degree while also preparing them for challenges and experiences after college. The Center provides Sacramento State student-athletes with a very comprehensive academic support system.

The SARC provides student-athletes with a variety of academic support and services from the outset of their academic careers at Sacramento State. It provides the student-athletes with opportunities to develop and improve their academic skills, as well as to receive exceptional advising on University policies and procedures, coursework, and career choices. In addition, the Center's staff monitors the progress of each student-athlete towards completion of their degree in compliance with the academic bylaws mandated by the National Collegiate Athletic Association (NCAA). The SARC provides student-athletes with additional academic support in the forms of computer labs, individual tutoring, and specialized retention advising for student-athletes with additional academic needs. The Center also coordinates all of the activities associated with the NCAA/CHAMPS Life Skills Program. This nationwide program focuses on helping student athletes achieve in all areas of personal, academic, community, career, and athletic development.

The SARC Office and academic computer lab is open Monday through Friday from 7:30 a.m. - 4:30 p.m.

Undergraduate Business Advising Center

Tahoe Hall 1030
(916) 278-BIZZ (2499)
www.csus.edu/cba/ubac (http://www.csus.edu/cba/ubac/)

The Undergraduate Business Advising Center (UBAC) is part of the Office of Student Engagement in the College of Business Administration. UBAC assists undergraduate business administration majors, expressed interest in business, and minors with program advising, graduation evaluations, and petitions relating to the major and/or minor.

Teaching Credentials Advising

Eureka Hall 437
(916) 278-6403

www.csus.edu/coe/offices-services/aero/advising (http://www.csus.edu/coe/offices-services/aero/advising.html)

The Advising, Recruitment, Retention, and Outreach (AERO) Services assists students who are interested in pursuing a career as an elementary, middle/junior high, high school, or special education teacher. The AERO advisors work with students on issues related to state and university requirements for credential programs, support for taking required exams, and information about scholarships and other sources of financial support available to teacher candidates. Students considering teaching as a career should visit this office during their first semester.

Student Service Center

Lassen Hall 1000
(916) 278-1000
www.csus.edu/ssc (http://www.csus.edu/ssc/)

The Student Service Center (SSC) at Sacramento State is a student's one stop toward success. The Center provides multi-faceted assistance to students, alumni, faculty and staff. SSC staff are able to provide assistance in a variety of areas including financial aid, scholarships, tuition payment options, major and graduation requirements, and registering for courses. The Center also helps students access a myriad of other campus resources.

Our mission is to provide a welcoming and accessible environment that is dedicated to educating, supporting and developing student success by providing accurate, efficient and holistic information to the Sacramento State campus community.

The Student Service Center is open Monday – Friday from 8:00 AM – 5:00 PM.

Admission and Academic Support Programs

First Year Experience Programs

ARC 4002
(916) 278-2804
www.csus.edu/fye (http://www.csus.edu/fye/)

The First Year Experience Program

The mission of the First Year Experience Program (FYE) at Sacramento State is to improve the retention and graduation rates of native students, a goal that is directly aligned with the CSU system wide Graduation Initiative. FYE consists of:

1. the ***First Year Seminar course*** and ***University Learning Community course*** 'clusters'
2. ***co-curricular activities*** embedded in the courses, that are designed to increase student engagement with the campus, community, faculty, and peers
3. ***Peer Mentors*** who attend courses with first year students, and provide personal, academic, and advising support
4. ***The FYE Space*** - #LIB3520 provides a space for first year college students to study, work in groups, meet their peer mentor, and find support. Students get support from peer mentors called the Go To Crew in the FYE Space

Enrollment in the **University Learning Community Program (LCOM)** and/or **First Year Seminar Courses (FYS)** occurs during New Student Orientation (http://www.csus.edu/orientation/First%20Year%20Orientation/) and during spring registration.

First Year Seminars

First Year Seminars provide students with an introduction to the nature and meaning of higher education and to the functions and resources of the University. Students in the class gain insights and develop tools that allow them to get the most out of their university education at Sacramento State. The seminars also provide students with the opportunity to interact with fellow students and the seminar leader, building a community of academic and personal support. Students who have taken the course do better academically than the general student population.

This introductory course satisfies the Area E General Education requirement. The course is listed under individual department names with the added designation of 21. For example, COMS 21 (Communication Studies) is a First Year Seminar, with specific information relevant to each major covered in more detail. Some of the First Year Seminars are stand-alone courses while others are part of a learning community.

The First Year Seminar is a 3 unit General Education (GE) Area E course where students explore the requirements and responsibilities of becoming a university educated person. Most FYS were paired with another course in the Learning Community, while the rest of FYS were "stand alone" (i.e. not paired with another course in a learning community).

Each First Year Seminar course shares the following characteristics:

- Small class sizes (capped at 30; lower cap for certain sections) to meet the needs of incoming first year students
- Use of the campus One Book for a common intellectual experience, common course description and learning goals, common class activities, assignments, and assessments aligned with Baccalaureate Learning Goals and GE Area E requirement
- Support for faculty to implement effective curricular activities (assignment descriptions, guest speaker lists, assessments, rubrics, all available online on SacCT/Blackboard)
- Opportunities for faculty professional development around teaching, learning and FYE programmatic research through an annual Convocation, annual curriculum workshop, and periodic faculty interest groups
- Support for embedding co-curricular activities (funding, coordination), including High Impact Practices
- Taught by both faculty and student affairs professionals, indicating the collaborative cross-divisional nature of the program
- Students learn how to access academic & personal support resources

The FYE Library Space

A designated academic location in Library 3520 (3rd floor) that is available primarily for first time college students called "The FYE Space." Events are often held in the Space to introduce information to students, as well as celebrate achievements ("May One is Done.") Students visit the Space to study, connect with faculty, meet with the FYE librarian, check-in with a Go To Crew peer mentor, or get support between classes. Workshops on writing, leadership, and major advising are offered throughout the semester. It was established to develop a space where First Year students could always connect with a community on campus.

Learning Communities
The Learning Communities program establishes connections between courses in different subject areas with General Education curricula. Each Learning Community consists of two to three classes, with faculty who try to link course topics, coordinating readings and assignments. Students who join a Learning Community are linked to other students enrolled in the same classes, helping students form connections with professors and other students that strengthen their networks of social and academic support. Learning Communities may also have a peer mentor to help students navigate the transition from high school to college.

Students admitted to Sacramento State do not need to meet any other admission criteria to join a Learning Community. New communities are formed each fall, and information about the semester's Learning Community offerings is shared at summer First Year Student Orientation. More information is available on the First Year Experience website at http://www.csus.edu/fye (http://www.csus.edu/fye/)

Honors Program

ARC 4002
(916) 278-2804

The General Education Honors Program at California State University, Sacramento offers qualified and highly motivated students an opportunity to have a challenging, innovative, and stimulating learning experience. Through small class sizes (around 25 students), students experience intimate classroom settings which promote discussion, integrative learning and a global perspective. The Program is open to incoming freshmen. We do not accept transfer students.

The Honors Program academic experience is composed of 45 units of Honors courses (36 lower division and 9 upper division). Honors students take at least 12 units per semester. During their freshman and sophomore years, Honors students will take three Honors courses per semester and the remaining course(s) can be filled with other courses required in their major or pre-major. Three upper division courses taken during their junior and senior year conclude the Honors experience. Completion of all Honors courses will fulfill Sacramento State General Education requirements for graduation with the exception of the lab science and freshman composition.

The core of the lower division curriculum is a three-semester Honors seminar in which students read some of the great books of world civilizations, analyze the writings of world thinkers and writers, and improve their skills in critical thinking and writing. The three upper division Honors courses are organized around the theme of learning and acting for the public good.

Honors students at Sacramento State experience individualized attention from dedicated professors, special seminars in their academic programs, extracurricular activities in the form of cultural events, various Honors Colloquia and interaction with faculty members and their fellow Honors students in and out of class. Students are strongly encouraged to study abroad through either short term programs developed specifically for the Honors Program, or semester or year long programs created for Sacramento State, and the CSU. They are also encouraged to complete an internship and an undergraduate research experience. A variety of Scholarships are available to support study abroad and other academic pursuits.

For further information and application instructions, visit the Honors Web site at www.csus.edu/honorsprogram (http://www.csus.edu/honorsprogram/).

Graduate Preparation Academy (GPA)

River Front Center 203
(916) 278-3834
E-mail: graddiversity@csus.edu
http://www.csus.edu/graddiv/

The Graduate Preparation Academy (GPA) is designed to prepare undergraduate students for admission and study at the graduate level. The GPA provides undergraduate students interested in pursuing a graduate degree with intensive graduate school preparation. Students selected to participate in the graduate school preparation academy will be provided with information and resources about participating in academic research, engaging with faculty mentors, preparing academically for graduate school, assistance with scholarship and fellowship opportunities, and graduate education entrance examinations through interactive speakers, panels, and workshops.

We offer a rigorous academic program that prepares students for the opportunities and challenges that face them in post-baccalaureate education. Participants are connected with a faculty member who will offer mentoring throughout the graduate school application process, feedback on essays, and other application materials. Participants are encouraged to participate in regional and national academic conferences to present their academic research.

McNair Scholars Program

River Front Center 203
(916) 278-5118
E-mail: Mcnair@csus.edu (mcnair@csus.edu)
www.csus.edu/mcnair (http://www.csus.edu/mcnair/)

The Ronald E. McNair Postbaccalaureate Achievement Program is a federally funded program designed to prepare selected Sacramento State undergraduate students for admission and study at the doctoral level. Each year, 24 McNair Scholars participate in both academic year and summer activities.

Students who have obtained 45 units or more, have a GPA of 2.8 or higher and are low income and first in their family to attend college, or students who are considered underrepresented in their major (as defined by federal regulations) can gain research skills, knowledge, and information needed to complete doctoral degrees in their fields of study.

The academic components include: a three-unit research methodology course, meetings with the McNair Program staff and the faculty mentors to assess personal needs and review academic progress, and preparation for a summer research project. For students who have completed 60 units or more, the summer component includes enrolling in a one unit supervised research course and travel to select McNair Symposiums where students have the opportunity to present their research findings. Scholars receive additional guidance from the McNair Faculty Coordinator and a faculty mentor in completing a published research article. Senior McNair scholars complete a 3-unit senior seminar which provides assistance with selecting, applying, and financing graduate studies.

Stipends for travel to doctoral institutions and research conferences to present research papers are granted to students who complete their research projects. McNair scholars also receive a stipend as part of

their participation in the summer research experience. Scholars are encouraged to participate in statewide and national conferences to present their research findings.

Business Based Educational Equity Program (BEEP)

Tahoe Hall 1006
(916) 278-5875
http://csus.edu/cba/biz/index.html (http://csus.edu/cba/biz/)

The Business Educational Equity Program (BEEP) encourages and supports all students who major in business. BEEP, also known as the Business Tutoring & Study Center, provides peer-assisted tutoring and a place to study where one-on-one and group assistance is available for business students seeking academic support in numerous lower and upper division business courses. Tutoring is provided on a drop-in basis for business students, and at no charge. All business students interested in the program should contact the College of Business Administration, Office of Student Engagement at (916) 278-5875 or visit the office in Tahoe Hall 1030.

Cooper-Woodson College

Enhancement Program (CWC)
Amador Hall 460
Director: Dr. Boatamo Mosupyoe
(916) 278-5363
www.csus.edu/cooper (http://www.csus.edu/cooper/)

Cooper-Woodson College Enhancement Program (CWC) emphasizes scholarship, leadership, and service by creating a supportive and nurturing learning environment that is responsive to the needs of students. Although the program is patterned after traditional relationships between students and faculty at historically Black colleges and universities, it serves students from all backgrounds. Faculty, staff, and community members assume the responsibility for shaping and guiding students through the college experience. Key objectives of CWC are the retention of students and the development of leaders.

CWC scholars, staff, faculty, and members of the community organize and participate in the following activities/events: Faculty/Staff Mentoring Program, African-American History Month rally and lectures, the annual Anna J. Cooper and Carter G. Wood lectures, and the annual African-American graduation celebration ceremony.

MESA Engineering Program (MEP)

Santa Clara Hall 1213
(916) 278-6699

Participation in the MESA Engineering (MEP) increases the probability that students will be successful in their engineering college studies. Focusing on the recruitment, retention, and graduation of highly motivated students from educationally disadvantaged backgrounds, MEP emphasizes participation by students from communities with low rates of enrollment in engineering majors.

The MEP program provides an on-campus home for its members with a large 24 hours-a-day study center that encourages study groups. MEP provides professional development, a freshman orientation course, and personal-academic advising. It assists in the coordination of tutoring services for all students in the College of Engineering.

Science Educational Equity (SEE)

Sequoia Hall 315
(916) 278-6519
www.csus.edu/nsm/see (http://www.csus.edu/nsm/see/)

The Science Educational Equity (SEE) program is a comprehensive academic support program designed for students who face social, economic, or educational barriers that limit access to careers in the sciences and health professions. Students are encouraged to form study groups for both lower and upper division coursework. Science faculty provide academic and pre-professional advising for each student and are available for career guidance and assistance with course material. Students attend professional conferences, participate in academic workshops and seminars, and are encouraged to attend summer enrichment programs at other universities and laboratories. The program provides assistance with applications to graduate programs, health professional schools, and summer enrichment programs. SEE also provides students the opportunity to meet and interact with faculty, community members, and other students.

All students interested in becoming a part of the SEE program are expected to demonstrate a commitment to the community through service to SEE, the University, and/or the Sacramento community. Upon entry to the program, each student is required to meet with an academic/major advisor to develop a comprehensive academic plan; it is the student's responsibility to schedule an advising appointment each semester thereafter to update the academic plan.

Center for College and Career Readiness (CCR)

Joy Salvetti, Director
Library 4023
(916) 278-2603
http://www.csus.edu/ccr (http://www.csus.edu/ccr/)

The Center for College & Career Readiness (CCR), a division of Academic Affairs, is the principle campus resource for everything "College and Career Ready." Our success comes from building and developing intersegmental educational partnerships throughout the greater Sacramento Region. Using a collective impact infrastructure, CCR focuses on establishing a continuous pipeline from preschool to bachelor's degree; ensures that high school graduates enter Sacramento State better academically prepared to succeed at the university level; and, provides readily available resources and timely interventions for current and future students.

Programs within the Center for College and Career Readiness include:

- The **Early Assessment Program (EAP)** serves as an 'early readiness signal' allowing for the placement of students in corresponding K-12 courses to fortify the academic and metacognitive skills needed for transition success. The EAP is responsible for the development of intersegmental curriculum in mathematics and English, as well as teacher professional development.
- The **EAP Senior Year Mathematics (ESM) Course** is the result of a regional partnership involving teams of mathematics faculty from higher education, high school teachers, and county offices of education. This course is designed to strengthen students' mathematical foundation, and deepen their conceptual understanding of mathematical theory, skills and strategies.
- The **Expository Reading and Writing Course (ERWC)** prepares college-bound seniors for the literacy demands of higher education. Students in this yearlong, rhetoric-based course develop advanced proficiencies in expository, analytical, and argumentative reading and writing. Students will be expected to increase their awareness

of the rhetorical strategies employed by authors, and to apply those strategies in their own writing.

The CCR works closely with local middle schools, high schools, and community colleges to create opportunities for students to gain the life and academic skills necessary for college success and future career aspirations. We strive to engage with each of the 215 high schools in our service area. Our programs include:

- **Middle School Outreach:** provides sixth, seventh, and eighth grade students the opportunity for early self-identification as a college student or career professional.
- **CCR Summer Boot Camp:** provides incoming high school juniors the opportunity to explore college and career readiness skill sets from both a metacognitive and academic perspective.
- **CCR High School Outreach:** provides onsite workshops, presentations, and campus visits for high school students, informing them of the importance of using their junior and senior years proactively, tips for choosing a college and a major, and how to avoid remediation.
- **Transition to Success Program (TSP)**: assists incoming freshman in making a smooth transition to Sacramento State by providing customized mentoring, social emotional support, and a 'home base' until graduation.
- **TSP Peer Coaches:** provide current TSP students with the opportunity to serve as peer coaches to high school sophomores; coaches receive a stipend and professional development.

Centers for Student Support

Student Academic Success and Educational Equity Programs (SASEEP)

The Student Academic Success and Educational Equity Programs are committed to fostering diversity and equity while promoting a campus learning environment that encourages and supports all students in persisting toward their educational goal by increasing their retention and graduation rates. This is accomplished through the unified effort of the following programs: the College Based Educational Equity Programs (CBEEP), the Dedicated to Educating, Graduating, and Retaining Educational Equity Students (DEGREES) Project, the Educational Opportunity Program (EOP), the Summer Bridge Academies, the Project HMONG, the Executive Trainers Program (ETP), Faculty Student Mentor Program (FSMP), the Guardian Scholars Program (GSP), the Martin Luther King, Jr. Scholars Program (MLK), the Male Empowerment Collaborative (MEC), the Parents and Families Program (P&F), the Paving Excellence, Retention, and Success in Student Trajectories (PERSIST) Program, the Peer and Academic Resource Center (PARC), the First Generation Student Institute (FGI), U-Mentor, Improve Your Tomorrow (IYT), the Native Scholars Transition Program, and Partnerships for Advancing the Value of Education (PAVE). These programs and services are designed to build upon the dreams and aspirations of our campus community – our students, faculty, and staff, our alumni, and the people of our region.

The Student Academic Success and Educational Equity Programs are guided by the following primary goals:

1. **Access and Equity**
   To provide underrepresented students with access to a higher education and supportive services that are designed to enable them to persist through the college experience.
2. **Recruitment and Transition**
   To aid students in their transition to college life through pre-college equity services and assistance in navigating the higher education experience.
3. **Retention and Graduation**
   To provide a comprehensive range of retention and progress to degree services (e.g., academic advising, tutoring, mentoring, coaching, & counseling, etc.) to underrepresented students in the Unit to facilitate their graduation.

The Parents & Families Program

Lassen 2205
Haley.Myers@csus.edu; parentsfamilies@csus.edu
916-278-4353
Family Helpline: 916-278-3399

The Parents & Families Program supports the ongoing needs of students and their parents and family members, as well as students-with-children, to help students stay in school and graduate. Communications, events and customer service inform and involve students and families, and generate support and goodwill for the campus community and beyond.

Highlights of the program include the Parent Ambassadors, a group of specially-trained parent volunteers; and expanded support services for students-with-children, including advising for student-parents, Hornet Family Study Care Day Camp which offers free Saturday childcare on select dates for Pell-eligible students, and the Hornet Family Study Care Grant, which pays half of Pell-eligible student-parents' out-of-pocket childcare costs. See www.csus.edu/parents (http://www.csus.edu/parents/) for more information.

College Assistance Migrant Program (CAMP)

River Front Center 1
(916) 278-7241
www.csus.edu/camp (http://www.csus.edu/camp/)

Director: Dr. Viridiana Diaz

CAMP is a unique educational program that helps students from migrant and seasonal farmworker backgrounds succeed at Sacramento State. CAMP facilitates the transition from high school to college and offers first-year support services to develop the skills necessary to persist and graduate from college. CAMP strives to be 'a home away from home' for its students.

<u>CAMP offers:</u>

- Early outreach and recruitment services
- Personal, academic and career counseling
- Tutoring and academic skill building instruction and assistance
- Assistance with special admissions
- Health services
- Assistance in obtaining student financial aid
- Housing support for students living in institutional facilities and commuting students
- Exposure to cultural events, academic programs, and other educational/cultural activities not available to migrant youth
- Internships
- A "home away from home" environment
- Follow-up services for students after they have completed their first year of college

To be eligible for CAMP, students must reflect an agricultural background, meaning they or their parent(s) or guardian(s) must have engaged in migrant or seasonal farm work labor for a minimum of 75 days within the last 24 months.

Degrees Project

Lassen 2006
Director: Dr. Marcellene Watson-Derbigny
http://www.csus.edu/degreesproject (http://www.csus.edu/degreesproject/)

The Dedicated to Educating, Graduating, and Retaining Educational Equity Students (DEGREES) Project seeks to provide enhanced services to undergraduate students to make timely progress to their degrees and to reduce the achievement gap. Services provided by the DEGREES Project include: access to DEGREES Project Coaches to ensure students are connected to resources, on campus mentorship made available through the "U" Mentor Program, faculty advising in the Colleges, 24/7 tutoring available through Smarthinking, and an overall comprehensive and integrated menu of academic and student support services designed to foster student success. Targeted interventions reach particular populations to assist high-unit seniors to graduate, boost second-year persistence, promote the writing proficiency exam for juniors, assist with helping students to identify a major, and increase the utilization of high impact practices on campus.

Martin Luther King Jr. Scholars Center

Lassen Hall 2201
(916) 278-2MLK (2655)
http://csus.edu/saseep/mlk/

The Sacramento State Martin Luther King Jr. Scholars Program, which opened in November 2015, is a university-wide effort to promote the cultural and historical legacies of Black and African-American Students. The program is set by the backdrop of a mission to support and ensure the success of Black and African American students and those with an interest in African American heritage in their quest toward a degree at Sacramento State. The vision of the MLK Jr. Center is to foster an ethos of success that permeates the scholarly experience, the community and the world by setting a tone of change and lifelong improvement that inspires and fulfills the dream of Dr. Martin Luther King, Jr.

Serna Center

River Front Center 1022
(916) 278-7241

Dr. Viridiana Diaz

Email: viridiaz@csus.edu
http://www.csus.edu/sernacenter (http://www.csus.edu/sernacenter/)

The mission of the Serna Center is to promote, foster, and enhance leadership, empowerment, self-advocacy, and civic engagement among Chicanx/Latinx students, but also, students from other underrepresented backgrounds at Sacramento State. The Center established a strong foundation that enriches cultural identity and develops a sense of familia within the campus.

Dreamer Resource Center (DRC)

River Front Center 1022
https://www.csus.edu/student-affairs/centers-programs/dreamer-resource-center/

The mission of the Dreamer Resource Center is to make the dream of a college degree a reality for undocumented students and students with mixed-status families at Sacramento State. Services provided by the DRC include free immigration legal consultations, financial aid guidance, scholarship resources, ally trainings, a peer-mentoring program, a support group, and a seminar designed to help undocumented and mixed-status students navigate college. The goals of the DRC are to: (1) provide access to higher education opportunities to undocumented high school, transfer, and graduate students, and those with mixed-status families; (2) provide support to help alleviate the uncertainty that comes from a lack of immigration status; (3) create a campus culture of knowledge and sensitivity to the issues faced by undocumented and mixed-status students; and (4) increase the retention and graduation of undocumented students and students with mixed-status families.

The High School Equivalency Program (HEP)

River Front Center 1022
(916) 278-7241
Director: Andres Enriquez
Email: hep@csus.edu

The High School Equivalency Program (HEP) is a federally funded program that helps migrant and seasonal farmworkers who are 18 years of age or older and not currently enrolled in school to obtain the equivalent to a high school diploma (HSE) and gain employment, go to an institution of higher education, the military, other postsecondary education or vocational training. HEP provides:

- Courses in reading, writing, math, science, and social studies
- Instructors and tutors to help participants make progress in the classroom and prepare them to pass the HSE exam
- Career professionals to assist participants in finding opportunities, post-HSE, to improve their quality of life
- Courses offered in English and Spanish

Migrant Student Leadership Institute (MSLI)

River Front Center 1022
(916) 278-7241
Director: Dr. Viridiana Diaz,

Email: viridiaz@csus.edu

The Migrant Leadership Institute (MSLI) is a residential two-week program for migrant high school students from various regions throughout the state of California. Students are housed on campus providing them an authentic campus life experience; while being mentor by college students, staff, and faculty.

The mission of MSLI is to recruit and prepare students from migrant backgrounds to become college ready, competitive candidates for admission to a four-year institutions and ultimately future leaders in their communities.

The Institute provides students a safe and supportive environment that maximizes learning and allows for self-exploration, reflection, and transformation. Students also earn three-units of college credit upon successfully completing the academic coursework with a grade of C or better.

Male Empowerment Collaborative (MEC)

Lassen Hall 2205

(916) 278-6183

http://www.csus.edu/saseep/mec (http://www.csus.edu/saseep/mec/)

'The Male Empowerment Collaborative' (MEC) is committed to addressing the gap between the academic successes of males compared to females. It is committed to the intellectual, spiritual, and economic development of young men in higher education. Like many other universities across the country, retention and graduation rates of males are significantly lower than females. Sacramento State through the MEC has worked for several years to increase the successful passage of males in higher education.

Using a program of support services including events, workshops, and personal advising, the Male Empowerment Collaborative at Sacramento State provides:

- Academic Advocacy
- Educational Empowerment
- Leadership Cultivation
- Academic Advising
- One-on-One and Group Mentorship
- Generalized support in a variety of contexts

Educational Opportunity Program (EOP)

Lassen Hall 2205
(916) 278-6183
www.csus.edu/eop (http://www.csus.edu/eop/)

The Educational Opportunity Program (EOP) is one of the primary vehicles implemented by the CSU system to increase the access, academic success and retention of educationally and economically disadvantaged students. EOP strives to provide the necessary economic and educational resources to help students realize their academic potential. Students can apply to the EOP Program via the Cal-State Application (*for the fall semester only*).

The EOP program, enacted by law in 1969, is a state-mandated program that serves First-Time Freshmen and Transfer students. EOP students are California residents from low-income, educationally disadvantaged communities who may not have had the opportunity to prepare adequately for admissions to a four-year college. AB-540/Dream Act students are eligible for EOP services.

The EOP Program provides retention services to all Sacramento State students including; academic advising, career counseling, personal counseling, professional development, educational workshops, social/cultural programing, and peer-mentoring advising. Admitted EOP students who have an Expected Family Contribution (EFC) of $1,500 or less and enroll in 15 units per semester may qualify to receive the EOP Grant. The Financial Aid Office will identify and award the EOP Grant to students.

Admitted EOP First-Time Freshmen students are required to attend a mandatory six-week Summer Bridge Academy Program from (early July through early August). Summer Bridge allows students for a smooth transition into the institution, earn college units, network with peers, meet EOP staff, professors and learn leadership skills.

As part of the First-Year Experience (FYE) First-Time Freshmen & Transfer students are required to enroll in an EOP Learning Community. The Learning Communities are cohort-base and student receive support from their professors, EOP counselor and Instructor Student Assistant. The Learning Communities allow students to navigate the campus, learn about other departments, and enhance their leadership and professional development skills.

General and Continuing Services for current & prospective Students:

- Early Outreach to schools, communities and individuals
- Campus Tours & EOP Presentations
- Assistance with the CSU & EOP Application Process
- EOP New Student Orientation (for admitted students)
- Summer Bridge Academy Program (freshmen only)
- Fall Learning Communities (for incoming students)
- Financial Aid Advising
- EOP Grant
- Professional Development & Career Services
- Academic Success Workshops
- Learning and Study Strategies Workshops
- Student Retention Peer-Graduate Advisors
- Strategic Advising and Retention Services to all class levels (Freshmen through Senior)
- Provide Recommendations/Referrals to other Support Services
- EOP Graduation Ceremony

For EOP Admissions Criteria and Application Process, please click on the following link below;

https://www.csus.edu/student-affairs/centers-programs/educational-opportunity-program/_internal/_documents/eligibility-information.pdf

[1] See Admission and General Support Programs/Summer Bridge Academy below.

Guardian Scholars Program (GSP)

Lassen Hall 2302
(916) 278-6680
www.csus.edu/gs (http://www.csus.edu/gs/)

The Guardian Scholars Program (GSP) is a student support service for current and former foster youth. The program office was established in 2006 to assist students in their pursuit of academic and career success. Program components consist of one-unit college strategies courses, one-on-one advising, counseling, financial assistance, workshops, social events, professional mentoring, priority registration, and direct referrals to other programs on-campus.

GSP is open to all Sacramento State students who have been in foster care, kinship care, or homeless situations and are considered “independent” by federal financial aid guidelines. We review applications throughout the year, so there is no deadline to apply. Our staff is committed to helping Guardian Scholars succeed and overcome obstacles to graduating.

All eligible students are encouraged to learn more about and apply to the Guardian Scholars Program by contacting our staff or visiting the Guardian Scholars website at www.csus.edu/gsp (http://www.csus.edu/gsp/).

Summer Bridge Academy (pre-college program)

Lassen Hall 2205
(916) 278-6183

https://www.csus.edu/student-affairs/centers-programs/educational-opportunity-program/

The Summer Bridge Academy is an educational equity project administered through the Educational Opportunity Program. Summer Bridge is a *mandatory* six-week intensive academic preparation and college orientation program designed strictly for incoming EOP first-year student to help them make a smooth transition from high school to college. EOP serves economically disadvantaged, first-generation college students.

College level General Education classes are offered in the Academy. Students may complete up to two college courses, including an in-depth Leadership Development course. Summer Bridge also meets Early Start requirements. There is no cost to students.

Successful completion of the courses students may earn 3-5 units of credit. To be considered for the Summer Bridge Academy, students must be admitted to Sacramento State and to EOP. Prospective students are strongly encouraged to apply to the EOP program, via Cal State Apply, during the CSU Application cycle (Oct. 1st – Nov. 30th). Students must meet all admission deadlines, as established by the Admissions & Outreach Office to gain admission to EOP and Summer Bridge.

Note: EOP also provides Summer Bridge programming for upper-class level including sophomores and transfer students.

To learn more about the Summer Bridge Academy, visit or call the EOP office (916) 278-6183 or visit the Academy website at https://www.csus.edu/student-affairs/centers-programs/educational-opportunity-program/summer-bridge-academy.html

Faculty/Student Mentor Program (FSMP)

Lassen Hall 2205
(916) 278-6183
www.csus.edu/fsmp (http://www.csus.edu/fsmp/)

The Faculty Student Mentor Program (FSMP) is an educational equity program designed to offer academic and personal support to students from traditionally low-income communities and selected students who have requested services due to challenges experienced in their education. The Faculty Student Mentor Program's goals are to increase the retention rates of students by helping them develop the knowledge, skills, and attitudes necessary to complete their academic goals, introduce the students to a discipline, build communities, and promote excellence.

Faculty and Peer Mentors are key elements to goal attainment. Program participants' integration into campus life is facilitated by the development of discipline-based faculty and peer mentor teams. The FSMP matches the faculty peer mentor teams with program participants. These teams may organize study sessions, workshops and tutorials in the seven colleges. In addition, the mentors give personal, career and academic advice, and provide referrals to advisors within the departments and other on-campus resources. The teams also plan activities supportive of the students' interests and needs.

For more information, please call or visit our office.

Peer and Academic Resource Center (PARC)

Lassen Hall 2200
(916) 278-6010
www.csus.edu/parc (http://www.csus.edu/parc/)

The Peer and Academic Resource Center (PARC) is a centralized academic support hub where students are united for common goals of excellence and student success through peer-led and student-driven services. The mission of PARC is to promote the scholastic achievements of students through enriched and supportive academic peer-to-peer learning opportunities that aid students along the pathway to degree attainment. We offer four programs - Supplemental Instruction (SI), Supplemental Instruction (SI) Plus, the Peer-Led Advising for College Experience (PLACE) Program, and the Workshops & Individual Tutorials (WIT) Program.

* Supplemental Instruction (SI) is an international certified academic support program for students who are enrolled in historically-challenging general education (GE) courses. SI provides students credit (1 unit) to learn how to implement transferable academic learning skills and strategies to increase grades in difficult university courses.

* Supplemental Instruction (SI) Plus provides free academic review and test preparation sessions for students enrolled in large lecture courses. These sessions are connected to the SI classes offered by PARC, however, they are open to all students in the class, not just those enrolled in the SI program.

* Peer-Led Advising for College Experience (PLACE) is led by students who are familiar with campus life and resources. This program provides peer-led supplemental advising services for all students on campus. One of the well-known student-advising programs, the Government Odyssey Program, is also housed in the PARC.

* Workshops & Individual Tutorials (WIT) is a free tutoring service (group and individual tutorials) open to all students on campus. The tutorials are taught by trained tutors who are familiar with materials in historically-difficult courses. In addition to helping students develop academic strategies to better understand challenging course materials, WIT has also successfully presented many Academic Support workshops in collaboration with the Academic Advising Center and First Year Experience (FYE). Some workshop topics included Time Management, Study Skills, Self-Care, among other topics. We also offer workshops on culturally inclusive behavior and intercultural communication skills.

All of these programs assist students in collaboratively learning about how to be a successful student and how to successfully navigate the demands of the academic community. Our motto embodies who we are as a Center: Successful students promoting student success!

First-Generation Institute

Lassen Hall 2205
(916) 278-6183
http://csus.edu/saseep/fgi/

The First-Generation Institute (FGI) is an innovative and student centered program designed for first-generation students to integrate their college experiences into the world of work. The curriculum implemented for FGI is developed from collaborative partnerships and utilize a network of regional employers and community organizations to offer a wide variety of vibrant workshops and expert speakers. FGI goal is to bring awareness and foster discussion of workplace etiquette and cultural nuances to develop skills and perspectives needed to progress from first-generation students to first-generation professionals.

Project HMONG (Helping Mentor Our Next Generation)

Lassen Hall 2205
(916) 278-6183

http://csus.edu/saseep/projecthmong/

Project HMONG (Helping Mentor Our Next Generation) is devoted to fostering student health, retention, persistence, and graduation success. Project HMONG's mission is to ensure the academic, career, and life success for Hmong and other underrepresented students. In collaboration with faculty, staff, students and community members, Project HMONG's purpose is to build a positive and supportive community of mentors and peers through mentoring and networking with support, guidance, and encouragement while promoting positive character development.

P.A.V.E. Partnerships for Advancing the Value of Education

Lassen Hall 2205

(916) 278-6183

PAVE is a Service Learning Tutoring Program that partners with local schools to offer tutoring, mentoring, and college preparedness in K-12 classrooms. PAVE student academic tutors and college role models are prepared to provide Common Core State Standards support in English Language Arts, Math and the Sciences. Through PAVE, student academic tutors will engage in an authentic educational experience in which they apply their personal experiences, academic knowledge and skills they gained in their college classroom.

Services to Students with Disabilities (SSWD)

Lassen Hall 1008
(916) 278-6955 (voice) or (916) 278-7239 (TDD only), (916) 278-7825 (fax)
sswd@csus.edu (Email)
www.csus.edu/sswd (http://www.csus.edu/sswd/)

To be eligible for SSWD disability-related academic accommodation services, applicants must be currently enrolled at Sacramento State, submit a completed SSWD application along with current medical documentation verifying disability and functional limitations, and meet with an SSWD Access Coordinator for an Intake meeting. Accommodations are not retroactive. Accommodations are not in effect until an Intake with a SSWD Counselor has been conducted, appropriate academic adjustments approved by the Access Coordinator, and a current accommodation letter has been issued by SSWD. The accommodation letter, to be current, must be requested and issued EACH semester.

SSWD serves all matriculated Sacramento State students, regardless of identity, nationality or other status. All SSWD students are served under the CSU Policy for the Provision of Accommodations and Support Services to Students with Disabilities.

SSWD services are located in three different buildings. The Access Coordinators and TRiO SSSD program are located in Lassen. The Assistive Technology Lab is located in AIRS, the Testing Center is housed in the basement of the Library.

Assistive Technology Lab (ATL)

The Assistive Technology Lab ensures SSWD students, with print disabilities, have equal access to instructional materials. The ATL staff convert books and required course information into accessible formats. SSWD students are encouraged to use the computer lab, where assistive hardware and software is available to qualified students, based on referrals from SSWD Access Coordinators. To learn more about qualification criteria and services, contact sswd@csus.edu.

Testing Center

Lower Level Library, Room 14
(916) 278-6296
www.csus.edu/testing (http://www.csus.edu/testing/)

The Testing Center provides testing accommodations for eligible students registered with SSWD. Students requesting disability related accommodations for placement exams, new student orientation or other exams must be determined to be eligible for this service by first applying to SSWD. Tests are administered in lower-distraction classrooms, have available adjustable height tables, and essential assistive technology.

The Testing Center also administers the Writing Placement for Juniors [WPJ] exam and the Writing Placement for Graduate Students [WPG] exam, as well as state and national standardized tests (such as the California Basic Educational Skills Test [CBEST] and the Graduate Record Exam [GRE] Subject Tests) to current and prospective students.

In addition, the Testing Center also provides proctoring services for make-up tests for a fee. CSUS students, with their instructor's permission, can schedule appointments to take paper-based classroom exams, exams with class conflicts, or exams for distance education courses. And finally, the Testing Center provides proctoring services for a fee, for anyone needing to take a paper-based test for another university, college or agency.

TRIO (SSSD)

The federally funded "TRIO" Student Support Services (SSSD) Project offers supplemental retention services to students with disabilities who require additional academic support and meet the federal TRiO qualifications for eligibility. This program, even though housed with SSWD in Lassen, has specific criteria for eligibility, and is separate from SSWD. The SSSD project offers limited tutoring, grants, financial literacy support, career assistance, peer mentors; as well as sponsored academic, cultural and social activities to strengthen academic and non-cognitive skills, and to increase retention and ultimately graduation. Interested students must submit a TRIO SSSD application, meet federal and program eligibility criteria, be U.S. Citizens or Permanent Residents, and be committed to actively participating in SSSD program requirements at Sacramento State. For more information or an application, contact trio@csus.edu.

Crisis Assistance and Resource Education Support (CARES) Office

CARES Office suite is located in University Union Suite1260 / Business Hours: Monday-Friday 9am-4pm

(916) 278-5138

cares@csus.edu

https://www.csus.edu/student-affairs/crisis-assistance-resource-education-support/

The Sacramento State C.A.R.E.S Office provide assistance to students who are in crisis or experiencing unique challenges to their education.

CARES Case Managers can coordinate referrals to campus and community resources, and offer follow-up support to address a variety of issues including, but not limited to:

- Housing displacement
- Transportation barriers
- Financial Emergencies
- Food insecurity
- Mental health and wellness
- Physical health and wellness
- Transition back to campus following a hospitalization

Additional Services and Support:

- Assistance with CalFresh applications
- Student Emergency Housing on campus
- Student Emergency Fund
- Advocacy (for accessing resources)
- Faculty and staff workshops on working with students in distress

Basic Needs Initiative

Division of Student Affairs
(916) 278-6060
http://csus.edu/basicneeds/

The Basic Needs Initiative provides a variety of resources to meet the housing, food, and financial needs of students. Basic Needs are the minimum necessary elements that people need in order to succeed in their goals; these include food, clothing, shelter, safety. If you are experiencing challenges with food access, housing, or finances, Sacramento State wants to ensure you have resources available to you in your time of need.

We know that Basic Needs security is essential to academic success. We encourage you to leverage your resources and utilize the options on the Basic Needs Website.

Throughout the website, you will see tips on how to use these resources in order to address Basic Needs Challenges. We hope that you leverage all your resources creatively and in a way that works for you, we know that there are many ways to be a student (full-time vs. part-time, students with children, students with disabilities, students without parental support, students without FAFSA aid, etc.) so, creating a plan unique to your needs is important.

If you have any questions or need assistance creating your Basic Needs Support plan, please contact our our CARES Office cares@csus.edu or 916-278-5138.

Project Rebound

Andrew Winn

Division of Student Affairs

Lassen Hall 2140
(916) 278-6794
https://www.csus.edu/student-affairs/centers-programs/project-rebound/

PR is a growing collaboration of college support programs uniquely equipped to help formerly incarcerated people access and navigate higher education at California State Universities. Founded in 1967 at San Francisco University (SFSU) by Dr. John Irwin, who had been incarcerated prior to earning his Ph.D., he became a tenured professor at SFSU for 26 years, and where nurtured PR's philosophy for others to implement. In 2016, Project Rebound moved beyond the confines of SFSU onto seven other California State University (CSU) campuses, including Sacramento State; currently Project Rebound can be found on 11 CSU campuses, with several other campuses developing programs.

Project Rebound is a program to assist formerly incarcerated students to prepare for, apply to, enroll in and graduate with a high-quality degree from Sacramento State. Project Rebound provides support for each student to ensure their optimal success at the University. The program offers academic and financial counseling and referral, peer mentoring and tutoring, and career development. The program addresses the basic needs of students, enabling them to focus on their studies and achieve educational and personal empowerment.

CSU International Programs

International Programs

Developing intercultural communication skills and international understanding among its students is a vital mission of the California State University (CSU). Since its inception in 1963, the CSU International Programs (CSU IP) has contributed to this effort by providing qualified students an affordable opportunity to continue their studies abroad for a full academic year. More than 20,000 CSU students have taken advantage of this unique study option.

International Programs participants earn resident academic credit at their CSU campuses while they pursue full-time study at a host university or study center abroad. CSU IP serves the needs of students in more than 100 designated academic majors. Affiliated with more than 50 recognized universities and institutions of higher education in 18 countries, CSU IP also offers a wide selection of study abroad destinations and learning environments.

Australia
Griffith University
Macquarie University
Queensland University of Technology
University of Queensland
Western Sydney University

Canada
Concordia University

Chile
Pontificia Universidad Católica de Chile

China
Peking University (Beijing)

Denmark
Danish Institute for Study Abroad

France
Institut Catholique de Paris
Institut Supérieur d'Electronique de Paris
Université d'Aix-Marseille (Aix-en-Provence)
Université de Cergy-Pontoise
Universités de Paris I, III, IV, VI, VII, VIII, X, XI, XII, XIII
Université Paris-Est Marne-la-Vallée
Université d' Evry Val d'Essonne
Université de Versailles-Saint-Quentin-en-Yvelines

Germany
University of Tübingen and a number of institutions of higher education in the Federal state of Baden-Württemberg

Ghana
Univeristy of Ghana

Israel
University of Haifa

Italy
CSU Florence Study Center
Accademia di Belle Arti Firenze

Japan
Waseda University
University of Tsukuba

Mexico
Instituto Tecnológico y de Estudios Superiores de Monterrey
Campus Querétaro

South Africa
Nelson Mandela Metropolitan University

South Korea
Yonsei University

Spain
Universidad Complutense de Madrid
Universidad de Granada
Universidad de Jaén

Sweden
Uppsala University

Taiwan
National Taiwan University

United Kingdom
University of Bradford
University of Bristol
University of Hull
Kingston University
Swansea University

Students participating in CSU IP pay CSU tuition and program fees, and are responsible for airfare, accommodations, meals and other personal expenses. Financial aid, with the exception of Federal Work-Study, is available to qualified students and limited scholarship opportunities are also available. All programs require students to maintain good academic and disciplinary standing, many programs are open to sophomores or graduate students. California Community College transfer students are eligible to apply (to select programs) directly from their community colleges. Students must possess a current cumulative grade point average of 2.75 or 3.0, depending on the program, and must fulfill all coursework prerequisites. Additional program information and application instructions can be found on our website at website (http://www.calstate.edu/ip/).

Research and Extended Programs

Office of Research Affairs

Division of Academic Affairs
Hornet Bookstore, Suite 3400
(916) 278-6402
research@csus.edu
www.csus.edu/research (http://www.csus.edu/research/)

The Office of Research Affairs (ORA), as part of Academic Affairs, reports to the Provost and works to expand the research capacity of Sacramento State's faculty, students, and research staff. ORA supports faculty pursuing external funds for research projects (proposal development, submission assistance, contract development, project coordination, and related infrastructure needs) as well as research program development initiatives. On behalf of the University, we submit faculty grant and contract proposals, administer internal research funds and recognition programs, facilitate the Institutional Review Board (IRB) and Institutional Animal Care and Use Committee (IACUC), and coordinate patent and tech transfer activities, as well as provide a full range of research integrity and compliance functions for the research enterprise.

Post-award account administration for sponsored agreements and related accounts is typically handled through the Office of Sponsored Programs Administration (SPA) of University Enterprises, Inc. (UEI). SPA professional staff work in coordination with ORA to support, accept and administer the awards faculty receive from federal, state, and private funding agencies.

International Programs and Global Engagement

Library 1001
(916) 278-6686
www.csus.edu/international-programs-global-engagement/ (https://www.csus.edu/international-programs-global-engagement/)

The mission of the International Programs and Global Engagement (IPGE) (https://www.csus.edu/international-programs-global-engagement/) office is to provide opportunities for Sacramento State students and faculty to increase their global knowledge, expand their international experiences, and gain new global perspectives. The office is comprised of the following functional units:

- International Admissions
- International Student and Scholar Services
- Study Abroad
- Global Initiatives
- Faculty and Staff Immigration Services
- The Passport Place @ Sac State
- The English Language Institute

International Admissions

Sacramento State welcomes students from across the globe. The International Admissions (https://www.csus.edu/international-programs-global-engagement/application-admissions-process/) office serves as the point of contact for all prospective international applicants intending to study at Sacramento State on a F-1 or J-1 student visa. Dedicated international admissions specialists process undergraduate and graduate applications, in addition to providing guidance throughout the application process. For additional information regarding international admission, please e-mail the office at intlinfo@csus.edu.

International Student and Scholar Services

Sacramento State is host to more than 650 students and scholars from 70 different countries. International Student and Scholar Services (https://www.csus.edu/international-programs-global-engagement/international-student-scholar-services/) within IPGE provides immigration support, coordinates International Student Orientation, and offers cultural programming and other services geared towards assisting international students and scholars in becoming more engaged in campus and community life. For additional information, please e-mail the office at intlprg@csus.edu.

Study Abroad

Sacramento State students have a variety of opportunities to study at over 70 universities in more than 20 different countries. Overseas educational opportunities are available in almost every discipline. Financial aid and scholarships are available to qualified students.

While studying abroad, students develop global perspectives related to their field of study that enhance academic knowledge and professional development. Study Abroad is one of the most transformational experiences offered at Sacramento State.

Sacramento State offers a variety of study abroad options:

- California State University International Programs (CSU-IP) is the system wide, year-long study abroad program offered by the California State University
- Sacramento State Exchange Programs include semester and year-long study abroad experiences through exchange programs with partner institutions
- Short-term, Faculty-Led Study Abroad programs
- Short-term non-credit bearing study tours
- Study Abroad opportunities through independent affiliated provider

Students interesting in studying abroad are advised to start the planning process as early as possible. For additional information about Study Abroad opportunities, please e-mail sabroad@csus.edu or visit the Study Abroad Website (https://www.csus.edu/international-programs-global-engagement/study-abroad/).

The Study Abroad office also offers the following services to faculty members interested in leading students groups or conducting research in foreign countries:

- Assistance in making contacts with colleagues at affiliated institutions abroad;
- Advising for faculty exchange opportunities for one semester or one year;
- Providing information about State Department advisories for international travelers;
- Providing information on faculty development seminars abroad; and,
- Providing information and advising regarding the International Research Scholar Program.

For additional information about Faculty-Led Study Abroad programs, please e-mail Alessandra McMorris at mcmorris@csus.edu.

Global Initiatives

The Office of Global Initiatives is responsible for international recruitment and outreach, maintaining and building international partnerships, and developing international agreements. The office also provides resources for Sacramento State faculty and staff interested in learning more about the university's internationalization and global engagement efforts.

Specific inquiries or requests for information can be e-mailed to Kunyi Cheng, Coordinator of Global Initiatives, at kunyi.cheng@csus.edu or Tel: (916) 278-4877.

Faculty and Staff Immigration Services

Sacramento State is committed to the internationalization of the campus by hiring a diverse group of faculty with world-class expertise in a wide range of academic disciplines. Faculty and Staff Immigration Services (https://www.csus.edu/international-programs-global-engagement/global-initiatives/immigration-services.html) provides information on immigration and international employment requirements for faculty and staff at Sacramento State.

Please direct Faculty and Staff Immigration questions to Megan Hambright, International Affairs Analyst. E-mail: meganhambright@csus.edu or Tel: 916-278-4885.

The Passport Place @ Sac State

The Passport Place @ Sac State (https://www.csus.edu/international-programs-global-engagement/the-passport-place.html) accepts U.S. Passport Applications between 8 AM – 4 PM, Monday – Thursday, and 8 AM - 1 PM on Friday. The Passport Place is located in the International Programs and Global Engagement (IPGE) office, Library 1001, next to the Grumpy Mule coffee shop (see campus map (http://www.csus.edu/about/documents/map_small.pdf)).

The English Language Institute

Del Norte Hall, Room 2012

Tel: (916) 278-4811

The English Language Institute (ELI) (https://www.cce.csus.edu/english-language-institute/) offers a year-round Intensive English Program for non-native English speakers who have a desire to improve their language skills. ELI also offers customizable American Language & Culture (ALC), International Professional Training and Development (IPTD) and other non-degree programs for international students. For additional information, e-mail ELI at eli@csus.edu.

Research-Based Centers and Institutes

Centers and institutes contribute significantly to the research, teaching, and service priorities of the University. By attracting external funding, research-based centers and institutes provide opportunities for faculty and students to engage current or emerging problems in a search for new solutions. For more information, please contact the Office of Research Affairs at (916) 278-6402 or visit www.csus.edu/research (http://www.csus.edu/research/).

College of Arts and Letters

- Center for Practical and Professional Ethics
  Director, Russell DiSilvestro
- North Central Information Center
  Director, Patrick Ettinger
- Center for Philosophy and the Natural Science

Director, Michael Epperson/History Department and NSM Dean's Office

College of Business Administration

- Center for Small Business
  Director, Andrey Mikhailitchenko
- Center for Business Analytics
  Director, Min Li
- Center for Entrepreneurship
  Director, Seung Bach

College of Education

- Center for Mathematics and Science Education (MASE) w/College of Natural Sciences and Mathematics
  Director, Judi Kusnick

College of Engineering and Computer Science

- Center for Information Assurance and Security
  Director, Isaac Ghansah
- Office of Water Programs
  Director, Ramzi Mahmood
- Center for Biomedical Device Development
  Director, Warren Smith

College of Health and Human Services

- Center for African Peace and Conflict Resolution
  Director, Ernest Uwazie
- Center for the Study of Criminology and Criminal Justice
  Director, Mary Maguire

College of Natural Sciences and Mathematics

- Center for Interdisciplinary Molecular Education, Research and Advancement (CIMERA)
  Director, Thomas Savage
- Center for Mathematics and Science Education (MASE) (w/College of Education)
  Director, Judi Kusnick
- Center for STEM Excellence
  Director, Dean Jill Trainer
- Center for Philosophy and the Natural Sciences
  Director, Michael Epperson/NSM Dean's Office and History Department

College of Social Sciences and Interdisciplinary Studies

- Archaeological Research Center
  Directors, Michael Delacorte and Mark Basgall
- Asian Pacific Islander American Research Center (APIARC)
  Director, Tim Fong
- Center for California Studies
  Director, Steve Boilard
- Center for Collaborative Policy
  Acting Director, Adam Sutkis
- EdInsight (formerly Institute for Highter Education Leadership and Policy-IHELP)
  Director, Andrea Venezia
- Institute for Social Research
  Director, David Barker

Note: Centers and Institutes are added and removed from the list as funding and programs evolve. Please visit www.csus.edu/research (http://www.csus.edu/research/) for the most current listing.

COMMUNITY CONNECTIONS

MESA Engineering Program (MEP)

Santa Clara Hall 1213
(916) 278-6699

Participation in the MESA Engineering Program (MEP) increases the probability that students will be successful in their engineering or computer science college studies. Focusing on the recruitment, retention, and graduation of highly motivated students from educationally disadvantaged backgrounds, MEP emphasizes participation by students from communities with low rates of enrollment in engineering majors.

The MEP program provides an on-campus home for its members with a large 24 hours-a-day study center that encourages study groups. MEP provides professional development, a freshman orientation course, and personal-academic advising. It assists in the coordination of tutoring services for all students in the College of Engineering and Computer Science.

Community Engagement Center (CEC)

Dr. Dana Kivel, Director

Faculty Associates: Dr. Rachel August, Psychology; Dr. Ann Moylan, Family & Consumer Sciences; and Dr. Casey Knifsend, Psychology

Francine Redada, Senior Partnership Coordinator

Marisa Warnock, Volunteer & Program Specialist

Anthony Fajardo, Volunteers In Service to America (VISTA) Specialist

Isabel Ibarra, Resource Analyst

Library 4028
(916) 278-4610
www.csus.edu/cec (http://www.csus.edu/cec/)

The Community Engagement Center, a program of Academic Affairs, focuses Sacramento State's greatest resource–the knowledge and skills of faculty, staff and students–on making a difference in the various communities throughout the Sacramento region.

Our mission is to engage members of the Sacramento State campus through their educational experiences to become aware of and respond to local and global community concerns through Service Learning, Volunteerism and Academic Internships. Additionally, our vision is to create a campus climate that promotes community awareness and involvement and supports students to become civically minded graduates who are actively engaged in making a difference both locally and globally.

At Sacramento State, community engagement describes the collaboration between institutions of higher education and their larger communities (local, regional/state, national, global) for the mutually beneficial exchange of knowledge and resources in a context of partnership and reciprocity.

The purpose of community engagement is the partnership of college and university knowledge and resources with those of the public and private sectors to enrich scholarship, research, and creative activity; enhance curriculum, teaching and learning, prepare educated, engaged citizens, strengthen democratic values and civic responsibility; address critical societal issues; and contribute to the public good.

Students, faculty, and the CEC collaborate with community partners to create community-engaged learning activities to:

- enhance classroom experience;
- connect scholarly work and community services;
- expand knowledge of civic and social issues;
- network with professionals;
- develop leadership and teamwork skills; and
- act locally, think globally.

The Community Engagement Center programs include:

- Service Learning (SL), which links students in courses with community-based partners for mutual benefit. The community partner gets assistance with various programs and the students gain experience understanding how different organizations operate and function to deliver programs and services. One example of Service Learning is: 'Writing Partners @ Sac State', a program where university students participate in a letter exchange with fifth graders at local elementary schools. Writing Partners helps Sac State students be better writers and it helps fifth graders aspire to become college students;
- Community Service, including Alternative Break @ Sac State and Sac State Volunteers, both of which provide volunteer opportunities with organizations throughout the Sacramento region;
- Civic Engagement, which supports opportunities for students to become 'engaged' citizens in their communities and includes the Constitution and Civic Engagement Program (CCEP) sponsored by CEC and other campus programs; and
- Academic Internships, which are stand-alone courses that formally integrate students' academic study with practical experience in a cooperating organization.

For more information on how to become involved, visit the Community Engagement Center Web site at http://www.csus.edu/cec (http://www.csus.edu/cec/).

Partnerships for Employment Opportunities

Dr. Melissa Repa, Director

Mary Kober, Senior Employer Relations/Workforce Analyst

Stephanie Francis, Internship Coordinator

Kate Lockwood, Employer Relations Coordinator

Voun Sa, Employer Relations Specialist

Emma Wadiak, Career Development Specialist

Career Center
Lassen Hall 1013
(916) 278-6231
www.csus.edu/student-life/career-center/ (https://www.csus.edu/student-life/career-center/)

Through a collaborative career development approach, the Career Center engages, educates and empowers our students and alumni to thrive and

successfully contribute to the community#and the economic workforce of the future. The Career Center offers a proactive comprehensive career development program, fostering partnerships with community and campus businesses to provide hands-on work experience for students and alumni.

Experiential education and internships offer students academic credit or experience for employment opportunities that complement their educational endeavors by matching educational goals with work experiences.The Student Employment program provides job-listing services for students looking for employment while attending college. Handshake (https://app.joinhandshake.com/login/), the online job database, lists thousands of opportunities (part-time, full-time, internship, and volunteer) for students and alumni in the Sacramento and Western region. It is accessible at the Career Center website 24 hours a day.

The On-Campus Interviews (OCI) program provides students and alumni with an opportunity to interview with Fortune 500 companies, top accounting firms, government agencies and other well-known organizations without ever leaving campus. Interviews for full-time and internship opportunities are conducted within our Career Center.

Career Events and Job Fairs offer students and alumni even broader opportunities to meet with prospective employers. Over 500 employers attend Career Center events, annually, each searching specifically for Sacramento State students who have a reputation for professionalism, work ethic and academic preparedness to help companies and organizations excel.

See also Campus Life/Student Resources/Career Center.

The EXCEL Program

Pamela O'Kane: (916) 278-4345
E-mail: okane@csus.edu

In the EXCEL Program, Sacramento State students learn the basics of tutoring elementary school children in reading or mathematics. After training, they work under supervision at local elementary schools helping children who are achieving below grade level. The following classes each offer 3 units of upper division credit:

Code	Title	Units
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	3
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	3
EDUC 126	Assisting the Elementary Classroom Teacher	3

Some paid positions are available with funding through FWS or America Reads/America Counts. This experience is an excellent way for students to find out if a career working with young people is right for them.

Sacramento State Links Project

Dr. Lynda Stone: (916) 278-4326
E-mail: lstone@csus.edu

Modeled on the Fifth Dimension program developed at UC San Diego, the Sacramento State Links Project connects the GE service learning course to a boisterous and lively after-school program. In the after-school program, college students tutor elementary school children, promoting literacy development through a mixture of play and educational activities.

University Outreach Services

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

The Admissions and Outreach Office, is charged with the recruitment of prospective students to the University. This involves recruitment visits and yield events at high school and transfer services, as well as services to students from low income educationally disadvantaged groups. The programs are designed to meet enrollment levels that reflect the richness of diversity in the Sacramento Region and to build a healthy enrollment balance by class level and academic programs.

Additional services provided include:

- Pre-admission advising and presentations;
- California Residency review;
- Western Undergraduate Exchange (WUE) program;
- Undergraduate application review and processing;
- Prospective and new student event planning;
- Customer Relationship Management;
- Outreach and marketing services;
- Campus tours;
- Tele-counseling services;
- Distribution of complimentary copies of CSU/Sacramento State materials to schools, colleges, and related agencies;
- Consult and Liaison between University academic departments and partner institutions for course articulation

High School Outreach Programs

High School Outreach programs provide information and guidance on higher education opportunities in general, and Sacramento State opportunities in particular, to prospective students, parents, guidance personnel, and other interested persons. High School Liaisons provide extensive outreach visits and activities at high schools in the Sacramento State service region and throughout the state. The Outreach staff also assists students in completion of the matriculation process and articulates University programs, policies, and procedures to other educational institutions and agencies.

Transfer Outreach Programs

Community College Outreach Programs work closely with community colleges in California to facilitate a smooth transition for students transferring to Sacramento State. In addition to the following list, the programs and services of the Community College Outreach mirror the High School Outreach program.

- Memoranda of Understanding, established with the Los Rios, Sierra, and Yuba Community College Districts, are partnerships emphasizing and promoting a seamless transition to Sacramento State.
- Development and distribution via www.assist.org (http://www.assist.org) of official articulation agreements between Sacramento State and other campuses specify the acceptability of transfer courses toward meeting lower-division major preparation.
- Visits to community colleges enable staff to meet with prospective students, providing instant, on-site admission for eligible applicants at major feeder community colleges.

Community Outreach

Project PLAY

Dr. Scott Modell
E-mail: modells@csus.edu
(916) 278-5041

Project PLAY (Play-Oriented Lifetime Activities for Youth) is a fitness and leisure program for individuals with disabilities ages 3-25, that also trains parents, legal guardians, and other family members to provide follow-up instructions and support for program participants in the home. Project PLAY combines activities in the areas of motor fitness, physical fitness, development of leisure time skills, opportunities in adapted aquatics, training for Special Olympics, wheelchair games, and other organized competition for individuals with disabilities.

Project PLAY is an opportunity for students to participate in community engagement in the Department of Kinesiology and Health Science.

Capital Public Radio KXPR, FM 88.9 and KXJZ, FM 90.9

(916) 278-8900
E-mail: info@capradio.org
http://www.capradio.org

Capital Public Radio is the NPR affiliate serving the Central Valley and Sierra Nevada. Seven frequencies, hundreds of thousands of listeners, and one mission: to build stronger communities by listening deeper. The seven listener-supported, non-commercial frequencies:

NEWS 90.9 FM Sacramento # 90.5 FM Tahoe/Reno # 91.3 FM Stockton/Modesto # 88.1 FM Quincy

MUSIC 88.9 FM Sacramento # 91.7 FM Groveland/Sonora # 88.7 FM Sutter/Yuba City

The radio station sits on the Sacramento State campus and offers internship opportunities for qualified students who wish to gain experience by working in a professional broadcasting environment.

Sacramento State Alumni Association

Alumni Association

(916) 278-6295
E-mail: alumni@csus.edu
www.csus.edu/alum/students/ (http://www.csus.edu/alum/students/)

The Alumni Association, open to all current students and friends of the University, was founded July 20, 1950 to encourage alumni involvement with their alma mater and to support the campus community. Governed by a 27-member Board of Directors, the Association offers its members various opportunities to volunteer and participate in social and fund-raising activities.

Current students are encouraged to join the Student Alumni Association (SAA). SAA is a student volunteer group that works on behalf of the Alumni Association to enhance the student experience by connecting students to one another, alumni, and the University. SAA volunteers plan and participate in social, career-oriented, and school unifying events. SAA membership for current students is only $20/year and, in addition to the full privileges and benefits of membership in the Alumni Association, members receive a t-shirt and keychain.

The Alumni Association also provides the opportunity to network with alumni who share your professional or social interests through chapters including: Art; ASI; Basketball Alumni and Friends; Black Alumni; Business Administration; Capitol Fellows Affiliate; Construction Management; Criminal Justice; Education; Engineering/Computer Science; Government; Hong Kong; Football/Spirit Alumni and Friends; Latino; MPPA; Nursing; Recreation, Parks and Tourism; Speech Pathology and Audiology; Theatre/Dance; and Urban Collective. All groups welcome student member (SAA) participation as well.

Events are another way the Alumni Association keeps alumni active in the life of the University. Annual events include “Alumni Month” every April, the Causeway Classic, Homecoming, pre-game parties, and the prestigious Distinguished Service Awards. Members of the Alumni Association also support students through donations to the Alumni Scholarship Fund. Each year 12-15 scholarships ranging from $1,000-$2,000 are awarded to deserving Sacramento State students.

When you think of your alumni home on campus, think of the Alumni Center. Maintained and operated by the Alumni Association, it is an outstanding venue that may be rented for meetings, conferences, weddings, receptions, and other social events. It truly provides a “home” on campus for alumni and a place for activities that help alumni strengthen ties to the students, the campus, and the community.

Current Alumni Association membership information can be found online at www.csus.edu/alum/students/ (http://www.csus.edu/alum/students/). We hope you will get involved and consider showing your Hornet Pride by joining for life!

CAMPUS LIFE

University Housing Services

North Village - On Campus

(916) 278-6655
www.csus.edu/student-life/housing (http://www.csus.edu/student-life/housing/)

Living on campus can be a very special and rewarding part of the Sacramento State experience. On-campus living is convenient and offers opportunities for students to make new friends and be a part of an active and engaged community. Additionally, research shows that students who live on campus feel more connected and have a higher persistence rate toward graduation as compared to students who live off campus. The residence halls are staffed by full-time post masters live-in professionals along with trained Resident Advisors. The residential staff organize educational programs, engage in academic advising, and serve as mentors and sources of campus information for residents.

The on-campus housing community consists of approximately 2100 residents living in seven residence halls offering a variety of living options including single and double rooms, and apartment style suites. Each residence hall provides furnished living accommodations along with Wi-Fi access, computer lab/print stations, cable TV and XfinityOnCampus with 120+ Digital and HD online channels with DVR service, study rooms, recreation rooms, lounges, kitchenettes, and laundry facilities. Additionally, the Servery at the Dining Commons and the Courtyard Market provide a variety of freshly prepared dining options.

Submitting an on-line application for on-campus housing is easy and convenient. Housing applications for the following academic year are available in early February. Students attending for spring semester only can apply for housing in early November. Please visit the Housing Web site at https://www.csus.edu/student-life/housing/ or contact University Housing Services at housing@csus.edu for specific application time-lines and housing costs. Space fills up quickly, so interested students should submit an on-line application including any necessary payments as soon as charges are posted to the student's account.

Upper Eastside Lofts - Off Campus

A popular off-campus option is the Upper Eastside Lofts (UEL) located only a short walk from campus. As with on-campus, UEL also has trained staff available to assist students with concerns and referrals to campus resources. They also provide educational programs, advising and mentoring. Information about the Upper Eastside Lofts may be obtained by calling (916) 739-0900 or viewing the Web site at www.uelsacramento.com (http://www.uelsacramento.com/).

Campus Dining

University Enterprises, Inc., Dining Services

(916) 278-6376
www.dining.csus.edu (http://www.dining.csus.edu)

Sac State Campus Dining, operated by University Enterprises, Inc., is proud to offer the campus community a wide variety of diverse, healthy, and great tasting dining choices throughout the campus. From snacks, food trucks, and fine dining, to everything in between, including vegan and vegetarian options, students will find dining options to fit their schedules and their tastes.

The University Union features classic American fare and ethnic cuisine, as well as coffee, smoothies, and vending.

The River Front Center on the north side of campus houses the well-known favorite, Togo's, as well as Baja Fresh Express, Starbucks, vegetarian and vegan eateries, Mediterranean cuisine, and sushi.

Other food and coffee locations are located throughout campus near Lassen Hall, the Library, the Hornet Bookstore, and at Modoc and Folsom Halls.

Sac State Campus Dining also manages a Starbucks truck, which serves hot and cold beverages, pastries, breakfast sandwiches, bistro boxes, fruit, and bottled water.

Epicure Catering at Sacramento State offers a variety of fresh, healthy foods prepared by the chef at Epicure Restaurant at Sacramento State. The professional and experienced staff is available for a full range of events and activities, both on and off campus. To request information and a catering menu, please call (916) 278-6786. Visit the Sac State Campus Dining website at http://www.dining.csus.edu for a current list of eateries, hours of operation, map with dining locations, and complete information about the services Sac State Campus Dining provides.

Dining Commons

Dining Commons
(916) 278-6971
www.dining.csus.edu/dining-commons/ (http://www.dining.csus.edu/dining-commons/)

For the convenience of students living in the residence halls at Sacramento State, the Dining Commons offers an "All You Care to Eat" meal service in a relaxed setting. Students living off campus may also eat at the Dining Commons, and off-campus meal plans are available for purchase. The serving area in the Dining Commons recently underwent a significant renovation, which changed the way food was prepared and served. The new, state-of-the-art servery includes 10 cooking exhibition stations with a different cuisine at each, where diners can see chefs prepare their meals. The Courtyard Market, a popular convenience store located in the American River Courtyard Residence Hall near the Dining Commons, offers healthy snacks and freshly made foods, including vegan and vegetarian options.

Campus Services

Bookstore

State University Drive East
(916) 278-6446
www.hornetbookstore.com (http://www.bkstr.com/csuscaramentostore/home/en/)

The Hornet Bookstore carries all textbooks required in campus curricula. Textbooks are available for purchase in-store during store business hours or ordered online anytime at hornetbookstore.com (http://www.bkstr.com/csuscaramentostore/home/en/). Please review the website for shipping options, store hours and pricing. The Bookstore offers a variety of textbook options, including new, used, rental and digital. All special program participants are advised to contact the Customer Service department before making purchases. The textbook department is located on the 2nd floor of the Hornet Bookstore.

The Bookstore offers merchandise to make life on campus more convenient. These items include school supplies, sportswear, backpacks, art supplies, calendars, greeting cards, sundries, snacks, and cold

beverages. The Bookstore offers a selection of laptop and personal computers at academic pricing. The bookstore is an Apple Authorized Campus Store. Repairs are available on Apple laptops and computers. Printers and technology related supplies are also available. The Bookstore also offers a selection of general interest books, reference books, best sellers, study aids, children's books, and magazines. Special orders are accepted for items not in stock. The Bookstore Cafe offers coffee, tea, specialty drinks and pastries.

The Bookstore is located on State University Drive East, across from the University and adjacent to Parking Structure II. VISA, MasterCard, Discover, American Express, and the Sacramento State One-Card are accepted.

The Store in the University Union

(916) 278-7906

The Store, located in the University Union, offers school supplies, test materials, snacks, cold beverages, logo apparel, gift merchandise, and sundries.

Children's Center (Child Care)

Atlas Cedar Way/State University Drive
(916) 278-6216
www.asi.csus.edu/children (http://www.asi.csus.edu/children/)

Built with student-raised funds, the Associated Students' Children's Center was carefully designed to provide support for Sac State students who are raising young children. A qualified staff of certificated, experienced teachers welcomes families with children six months of age through kindergarten. Student employees round out the rest of the adult-child ratio, adding a wealth of experience, knowledge, and cultural diversity. In addition to student employees, the Center provides internships for fieldwork courses and observation opportunities to students enrolled in a variety of courses. The Children's Center earned National Accreditation through the National Association for the Education of Young Children (NAEYC) in 2006 and was re-accredited in 2011and again in 2016.

Children of students, faculty, and staff may attend this program, although priority admission is given to children of enrolled Sacramento State students.

Students may apply directly to the Center for financial assistance if they meet income eligibility guidelines.

Student Health and Counseling Services

(916) 278-6461
www.csus.edu/shcs (http://www.csus.edu/shcs/)

The WELL is home to Student Health & Counseling Services (SHCS). We are staffed by a team of multi-disciplinary health care professionals who utilize an integrated treatment approach and work collaboratively to optimize student wellness. We offer urgent care, primary care, preventative services, wellness education, violence support services, athletic training, and mental health and counseling services. SHCS also offers the Peer Health Educator internship program. SHCS staff includes board certified physicians, physician assistants, nurse practitioners, registered nurses, health educators, registered dietician, certified athletic trainer, pharmacists, an x-ray technologist, psychologists, social workers, marriage & family counselors, and other health care professionals. SHCS provides the following health and counseling services:

Health Services

- Acute illness and injury care
- Athletic Training
- Birth control methods/supplies
- Health & Wellness Promotion
- Immunizations
- Pharmacy
- Reproductive Health Services
- STD/STI testing & treatment
- PEP/PrEP
- Transgender Care
- Violence & sexual assault support services
- Comprehensive eye exams
- Well Woman exams
- Wellness Workshops
- X-ray and lab services

Counseling & Psychological Services

- Urgent Care Counseling Services
- Individual & Group Counseling
- Faculty/Staff Consultation
- Outreach programs
- Support groups
- Relaxation and mindfulness training

Cost & Eligibility

All currently enrolled students who pay health fees are eligible to access services. Additional fees may apply to specialty services, procedures, pharmaceuticals, vaccines and supplies. *Any services received off campus are the financial responsibility of the student.*

Location & Hours
SHCS is located at The WELL, and open Monday – Thursday from 8am to 6pm, and on Fridays from 9:30 am – 4:30pm. Summer and intersession hours may vary.[1]

Online Medical Appointment Scheduling
Students seeking care for routine medical services can make appointments online at www.csus.edu/shcs (http://www.csus.edu/shcs/) by clicking the Patient Portal link, or by calling 916-278-6461. Please see the SHCS website for more information.

Urgent/Immediate Care – (916) 278-6461
Patients who require immediate medical attention or crisis counseling can be seen on a walk-in basis at the Urgent Care clinic located on the 1st floor of The WELL. All walk-in patients are medically evaluated and seen or scheduled for further evaluation and treatment as appropriate. An after-hours Nurse Advice Line is available by calling 916-278-6461 or 1-888-840-5169. A list of off-campus urgent care facilities and emergency resources are listed on the SHCS website at http://www.csus.edu/shcs (http://www.csus.edu/shcs/).

Counseling Appointment Scheduling
Students seeking counseling services can call SHCS during regular business hours to schedule a consultation or consultation appointments can be made online up to 16 hours ahead of the appointment by using the

Patient Portal link. Please see the SHCS website for more information at www.csus.edu/shcs (http://www.csus.edu/shcs/).

Nurse Advice
Nurse Advice is available 24 hours a day to enrolled students. Students have the option of calling to speak with a registered nurse who can assist with medical concerns when Student Health & Counseling Services is closed by calling 916-278-6461 or 1-888-840-5169.

Red Folder

- The CSU Red Folder App is available for in both Android and iOS versions. This resource contains safety tips and contact information for a wide variety of emergency campus resources to immediately help any student in distress. Also, it provides guidance on responding to incidents in which students are having thoughts of harming themselves or others.

Peer Health Educator Internship Program

- SHCS offers the Peer Health Educator (PHE) internship program, a year-long academic and hands-on learning program. PHEs actively promote health and wellness at Sac State in the areas of mental wellness; nutrition; alcohol, tobacco, and other drugs; and healthy relationships. For more information, visit http://www.csus.edu/shcs/wellness-education/internship.html.

Student Health Advisory Committee (SHAC)
SHAC is a student-based organization that advises the Vice President for Student Affairs and the Associate Vice President of Student Health & Counseling Services on student health issues from a student's perspective, covering such topics as accessibility, hours of operation, scope of services, student fees, quality of care and satisfaction.

Confidentiality
Privacy and confidentiality are fundamental rights to all who use SHCS services. In both Health Services and Mental Health Services, students' right to privacy is respected and no information is released without student consent, except where disclosure is required by law.

For more information on Student Health and Counseling Services visit www.csus.edu/shcs (http://www.csus.edu/shcs/) ***or call (916) 278-6461.***

Sacramento State Police Department

Personal Safety and Protection of Public Property
Police Department Building
Police Emergency: (916) 278-6900 or dial 911 from any campus phone
www.csus.edu/police (http://www.csus.edu/police/)
www.facebook.com/sacstatepolice (https://www.facebook.com/sacstatepolice/)
www.twitter.com/sacstatepolice (https://twitter.com/sacstatepolice/)

The University and the Sacramento State Police Department (formerly known as the Department of Public Safety) encourage the prompt reporting of any incident that compromises the safety, health or rights of Sacramento State community members. The Sacramento State Police Department is the primary respondent for campus emergencies and reports of criminal activity on campus. The Department is open 24-hours-a-day, seven days a week.

Sacramento State Police Officers are fully certified by the State of California with full arrest powers and cooperate with State and local police agencies including the Sacramento City Police and Sacramento County Sheriff's Departments, resulting in the University's awareness of criminal activity perpetrated beyond the campus. Reports of criminal activity will be fully investigated, and the appropriate referrals will be made with respect to subsequent action by the courts, the University, or both.

For more information on the Sacramento State Police Department's policies and procedures, refer to Appendix K. For The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act and the Campus Fire Safety Right-To-Know Act, please access our website, www.csus.edu/police/cleryact.htm (http://www.csus.edu/police/cleryact.htm).

Student Resources

University Library

(916) 278-5679
www.library.csus.edu (http://www.library.csus.edu)

The University Library holds approximately 1.6 million books (including over 200,000 ebooks), provides access to over 100 databases, in excess of 30,000 media items, and thousands of maps, slides and pamphlets, and several million pieces of microforms and non-print media as well as subscriptions to thousands of print and online magazines, technical and scholarly journals, and newspapers. The Library is a depository for California State publications and for selected United States government materials.

OneSearch (the Library catalog and other databases) is searchable via Library computers or the Internet. Your SacLink login gives access to library resources both on and off campus.

You can ask questions, find course materials, and borrow equipment like laptops and anatomy models at the service desk located on the first floor. Items not owned by the Library can be obtained through an Interlibrary loan and document delivery service, usually provided without fee to Sacramento State students, faculty, and staff.

The second floor houses the Reference Collection and Research Help meeting spaces, as well as the Curriculum Collection that contains materials related to elementary and secondary school instruction. The California Department of Education has designated the University Library as a Learning Resources Display Center for all State adopted textbooks. Periodicals are located on the third floor, and the main circulating collection is on floors 2, 3, 4, and lower level.

The Department of Special Collections and University Archives collects materials from California State University, Sacramento as well as items documenting the social, cultural, economic, and political history of the Sacramento region. Other special Library facilities and services include group and individual study rooms, a Family Study Room, and hundreds of computers for student use. Self-service copiers and PrintSmart stations are available on each floor. The Tsakopoulos Hellenic Collection is an extensive collection of books, journals, pamphlets, non-book materials, rare books, and manuscript materials as well as art and artifacts related to all aspects of Greek, Byzantine, and Ottoman history and culture.

Reference librarians offer subject-oriented research help and other forms of library instruction. Hands-on sessions are scheduled in the Library Instruction classrooms.

Consult the Library homepage for additional information about Library collections and services, hours, staff, maps, exhibits, instructional opportunities, subject guides, and other materials.

Career Center

Lassen Hall 1013
(916) 278-6231

www.csus.edu/student-life/career-center (https://www.csus.edu/student-life/career-center/)

Through a collaborative career development approach, the Career Center engages, educates and empowers our students and alumni to thrive and successfully contribute to the community#and today's economic workforce. The Career Center utilizes a variety of programs and services to assist students in identifying and obtaining their educational and career objectives.

Career Counseling & Support Services:

- Career and major exploration
- Internship search strategies
- Part and full-time job search strategies
- Resume and cover letter writing tips and feedback
- Interview preparation
- Career readiness skills
- Graduate school planning
- And more!

Programs, Events & Workshops:

- Career fairs
- Employer information sessions
- On-campus interviews
- Career development workshops

Online Resources:

- Handshake: The Career Center's all majors' job board for part-time, full-time, and internship opportunities and career event information
- Big Interview: The virtual interview preparation platform
- FOCUS 2 CAREER: online assessments to identify personality and work interests to help determine major and career paths
- Sac State Career Network: A platform designed for students and alumni to give and receive career advice
- What Can I Do With This Major (https://whatcanidowiththismajor.com/major/)?: Information about common career paths, employers, and strategies for building experience in different career fields

The Career Center welcomes students and alumni Monday through Friday 8:00 a.m. - 5:00 p.m. with drop in and career counseling appointments available Monday through Friday 10:00 a.m. - 4:00 p.m.

Note: All Sacramento State alumni are eligible to use designated Career Center services at no cost. See the Career Center (https://www.csus.edu/student-life/career-center/) website for details.

University Reading and Writing Center

Calaveras Hall 128
(916) 278-6356
www.csus.edu/writingcenter (http://www.csus.edu/writingcenter/)

The University Reading and Writing Center (URWC) is a place for all Sacramento State students to get help with reading and writing for any course or project. Trained undergraduate and graduate student tutors offer support at any stage of the writing process, including helping writers to begin an assignment and generate ideas, identify a focus for a paper, work on developing ideas, refining organization, citing sources, or clarifying language. The URWC can also help students learn how to proofread and edit their papers better. The URWC emphasizes nonjudgmental and encouraging feedback to help a student not only with a particular assignment but also with becoming a more confident college writer.

If a student is working on a writing assignment in any undergraduate major, in a writing course, or in a graduate course, it is appropriate to come to the URWC. Tutors are experienced in working with the diverse population of Sacramento State students including multilingual and multidialectal writers. Along with guidance on writing assignments, the URWC also provides help for students who are preparing to take the WPJ or other writing tests and for graduate students working on theses or projects. We also offer one unit of academic credit for regular tutoring, ENGL 121.

Appointments can be made in person in CLV 128 beginning the second week of classes each semester. Students interested in becoming a University Reading and Writing Center tutor should contact the Director.

Accessible Technology Initiative (ATI)

Sacramento State is committed to providing equal access to educational and information resources for every campus community member, including those with disabilities. Managed by Information Resources & Technology (IRT), the mission of the Accessible Technology Initiative (ATI) is to "make information technology resources and services accessible to all CSU students, faculty, staff, and the general public regardless of disability." This encompasses the delivery of comprehensive services to students and faculty for web accessibility, instructional materials accessibility, and the accessibility of any campus-procured technology. A dedicated team of three ATI specialists in the areas of instructional materials, web development, and procurement partner with and provide consultation to campus groups including Services to Students with Disabilities, the Student Technology Center, the High Tech Center, the Office of Equal Employment Opportunity, the Hornet Bookstore, and academic departments, among others, to ensure equal access to education for our students. Learn more at http://www.csus.edu/accessibility (http://www.csus.edu/accessibility/) or contact ati@csus.edu.

Information Resources & Technology (IRT)

Academic Information Resources Center 3010
(916) 278-6606
www.csus.edu/irt (http://www.csus.edu/irt/)

Information Resources & Technology (IRT) partners with faculty, staff, and students to provide essential information technology services that support mission critical activities and strategic campus goals. We actively engage our campus community to deliver high-quality services and innovative solutions that meet current and future technology needs. The IRT team is committed to communicating clearly, operating transparently, and taking a data-driven approach to continuous improvement. From log on to log off, we are a trusted partner in the shared vision to redefine the possible at Sacramento State. Faculty, staff, and students can request all IRT services online at ServiceNow (http://servicenow.csus.edu) or in person at the Service Desk.

IRT Service Desk

AIRC 2005
Hours: 7 days a week – visit http://csus.edu/irt/servicedesk (http://csus.edu/irt/servicedesk/) for hours
916.278.7337
servicedesk@csus.edu
csus.edu/irt/servicedesk (http://www.csus.edu/irt/servicedesk/)

ServiceNow – 24/7 Online Self-Service
Visit http://servicenow.csus.edu to research an IT issue through our extensive Knowledge Base, submit a request for service, check on the status of a service ticket, and more.

Student Technology Services

IRT provides extensive technology services to help students succeed, including:

Student Technology Center (STC): Drop-in training and workshops to teach students the technology needed to complete their coursework and collaborate with faculty.

AIRC 3007
(916) 278-2364
stc@csus.edu
http://csus.edu/irt/stc (http://csus.edu/irt/stc/)

Poster Printing (STC): www.csus.edu/irt/stc/printing (http://www.csus.edu/irt/stc/printing/)/
PrintSmart: www.csus.edu/irt/printsmart (http://www.csus.edu/irt/printsmart/)/

AirPrint **(**https://csus.service-now.com/service/kb?kb=KB0011157/**)**: https://csus.service-now.com/service/kb?kb=KB0011157 (https://csus.service-now.com/service/kb?kb=KB0011157/)

Apple users can print wirelessly (no drivers to install) from iPhone, iPad, or laptop to any PrintSmart device

Wireless Networking: www.csus.edu/irt/wireless/ (http://www.csus.edu/irt/wireless/)

APPLICATIONS

- MySacState: my.csus.edu (http://my.csus.edu/)
- Office 365 Applications: www.csus.edu/irt/servicedesk/support/officeinstall/landing.html (http://www.csus.edu/irt/servicedesk/support/officeinstall/landing.html)
- SacCT/Blackboard: sacct.csus.edu (http://sacct.csus.edu/)

LAPTOP CHECKOUT

AIRC 2004

- Windows/Mac Laptops
- Tablets
- Video Cables
- Whiteboard Markers

Library – User Services

- Windows/Mac Laptops
- Tablets
- Video Cables

ASI Business Office

- Windows Laptops

IRT COMPUTER LABS
Operating hours at www.csus.edu/irt/learningspaceservices/computer_labs.html#location (http://www.csus.edu/irt/learningspaceservices/computer_labs.html#location)

- AIRC 1016 and 2004
- LIB 2000
- MND 2004 and 2008
- FLS 1048

24/7 VIRTUAL LAB
mycloud.csus.edu
Access Lab Software
Save to SacFiles (U Drive)

PROJECT ROOMS
Need a project room for group work? Visit AIRC 2004 to sign up.

- Collaboration Tables
- Laptop Cables
- PCs
- Large Displays
- Whiteboards

Academic Technology and Creative Services (ATCS)

Online Teaching and Learning, SacCT support, Materials Development and Creative Services Support
ARC 3005
(916) 278-3370

ATCS utilizes an integrated service approach to provide technology-based consultation, technical assistance and creative expertise in support of the teaching/learning, research, service and outreach missions of the University. Support is provided on both an individualized and global (University) basis. ATCS technology-related services include: consultation, online learning support, curricular and other materials development, event support, hybrid/online course development, SacCT administration, and faculty & staff training. For a more in-depth description of ATCS's services, visit http://www.csus.edu/atcs/.

The Sacramento State Online Teaching & Learning Program provides expanded learning opportunities using technology-mediated instructional options. Our services allow students, both regionally and globally, to access classes when they are unable to attend classes on campus. ATCS supports academic departments and programs in the development, and facilitation of matriculated courses through synchronous and asynchronous delivery systems. These systems include: online teaching and learning systems, video conferencing, and support services. ATCS also assists faculty individually and small groups in adapting their curriculum, teaching methodologies, and pedagogy for online/hybrid course delivery.

Veterans Success Center

Lassen Hall 3003
(916) 278-6733
www.csus.edu/vets (http://www.csus.edu/vets/)

Sacramento State's Veterans Success Center (VSC) provides multi-faceted assistance to prospective and enrolled student veterans and dependents. Most notably, the center assists students in accessing their GI benefits, completing the admission application process, and registering for courses. The center also helps student's access campus resources, get involved in leadership activities, and transition into the civilian work world.

The VSC provides a lounge, where student veterans may study, socialize, network, and meet other student veterans and dependents. The VSC additionally offers many opportunities for veterans to get involved in co-curricular leadership activities - please stop by or visit the VSC Web site (http://www.csus.edu/vets (http://www.csus.edu/vets/)) for more information.

The Veterans Success Center is open Monday – Friday from 8:00 AM – 5:00 PM.

Student Organizations & Leadership

University Union, Second Floor
(916) 278-6595
www.csus.edu/soal (http://www.csus.edu/soal/)

Active participation in recognized student organizations, leadership development programs, and community service enriches and improves student's learning experience at Sacramento State. Student Organization & Leadership (SO&L) is committed to encouraging and supporting students to become involved in campus life through a variety of co-curricular and extracurricular programs.

Getting involved on campus is a great way to meet people, learn about campus resources, make lifelong friends, and enrich the total education experience on the road to graduation. Involvement also helps to make a large university such as Sacramento State seem more personal, as well as provides students with opportunities to develop the skills needed to be successful in the workplace.

Student Organizations & Leadership advises more than 300 student-led clubs and organizations that are social, religious, political, recreational, academic, cultural, fraternal, and professional. Through participation in organizations, students learn democratic processes, respect for others, develop concern for community issues, gain appreciation for aesthetics and culture, and participate in healthy recreational activities.

Student Organizations & Leadership coordinates the Leadership Initiative (LI), a co-curricular leadership certificate program open to all students that allows students an opportunity to earn certificates that show their commitment and involvement at Sacramento State. The LI is also a great way for students to build up their resumes with activities outside the classroom. In addition, Student Organizations & Leadership organizes workshops, conferences, and events to help students develop cultural competence, communication skills, and have fun.

SO&L staff members are happy to connect interested students with any of the organizations registered on campus or help them start new clubs and organizations. Get involved today by visiting http://www.csus.edu/soal (http://www.csus.edu/soal/) online or come to our office on the second floor of the University Union.

Associated Students, Inc.

University Union, 3rd Floor
(916) 278-6784
www.asi.csus.edu (http://www.asi.csus.edu)

Associated Students, Inc. (ASI), a $10 million nonprofit corporation that serves as the student government at Sacramento State. Programs created and operated by ASI benefit the entire campus community. A student Board of Directors governs ASI. Elected each spring, this Board meets regularly through the fall and spring semesters. Students are encouraged to attend Board meetings, bringing their questions and concerns. With numerous committees and work teams, ASI offers students an assortment of ways to get involved in campus life and student representation. Participation as an ASI employee or volunteer provides students valuable experience and important future career contacts. ASI services to Sacramento State students range from free legal services to discount movie tickets. Programs include a variety of business and student services, a Children's Center, the Sacramento State Aquatic Center, ASI Peak Adventures, KSSU Radio, ASI Food Pantry, and Safe Rides. ASI also maintains the Hot Spot, which coordinates ASI campus life engagement and outreach. Located on the main floor of the University Union, the Hot Spot is a great place to learn about ASI. Through various grants and scholarships, ASI contributes financial support to student clubs and organizations, other University programs, and individual students. To get involved in ASI activities, stop by the main office, call (916) 278-6784, or visit www.asi.csus.edu (http://www.asi.csus.edu/).

The Centers for Diversity and Inclusion

(916) 278-6370
http://www.csus.edu/cdi (http://www.csus.edu/cdi/)

The Centers for Diversity and Inclusion are a family of Centers (Women's Resource Center, Multi-Cultural Center and PRIDE Center) that provide students with validation and support, while also engaging the larger Hornet community in coordinated efforts to interrogate and explore identity, promote cultural pluralism, and contribute to social justice.

The Women's Resource Center (WRC) promotes gender equity through four distinct pillars: Allyship, Feminism, Leadership, and Empowerment. The WRC develops various programs and events aimed to increase the awareness and understanding of the contributions, opportunities, and barriers facing women in our society in the past and present. Contact information: 2nd Floor, University Union, (916) 278-7388 http://www.csus.edu/wrc (http://www.csus.edu/wrc/)

The Multi-Cultural Center at Sacramento State supports the needs of diverse communities by providing educational programs and a welcoming space that helps students learn about themselves and others. Partnering with multiple campus and community entities to co-create diversity and social justice initiatives, the MCC is committed to responding to student needs, building bridges for fostering social awareness and cultural understanding, and taking action on important issues and concerns of our communities. Contact information: University Library Room 1010 (916) 278-6101 http://www.csus.edu/mcc (http://www.csus.edu/mcc/)

The PRIDE Center is committed to enriching the campus experience and developing students as individuals and as members of communities. We exist to create and maintain a campus environment that is open, safe, and supportive of student diversity in the areas of sexual orientation and gender identity/expression. Our work is accomplished through student-centered education, outreach, advocacy and support. Contact information: 1st Floor, University Union (916) 278-8720 http://www.csus.edu/pride (http://www.csus.edu/pride/)

CDI programs and services include, but are not limited to:

•Leadership development opportunities: internships, volunteer positions, and other opportunities for personal development.

•Collaborative projects with student organizations to encourage students to engage their social and intellectual skills through campus networks.

•Affirming and nurturing environments where students can study, rest, and mingle with other students interested in culture, identity, intersectionality and academic success.

•Workshops and community-building events aimed at connecting students, staff, and faculty.

Student Literary Journal

Calaveras Hall 117
(916) 278-6492
www.csus.edu/org/litjrnl (http://www.csus.edu/org/litjrnl/)

An annual student run publication, Calaveras Station Literary Journal solicits submissions of student writing in the fall semester, accepting approximately 10 percent for inclusion in its spring issue. Perfect bound and professionally designed, this journal offers its readers poetry, short fiction, essays, and literary criticism from a campus-wide selection of authors. Its website provides a glimpse into the current edition as well as past issues, with lists of student editors and submission details. English Department professors serve as faculty advisors.

The State Hornet Newspaper

State Hornet Newsroom, Del Norte Hall
(916) 278-6583
www.statehornet.com (http://www.statehornet.com/)
Twitter.com/TheStateHornet (https://twitter.com/TheStateHornet/)
Facebook.com/statehornet (https://www.facebook.com/statehornet/)
Instagram:@statehornet (https://www.instagram.com/statehornet/)

An award-winning campus newspaper that began more than 65 years ago, *The State Hornet* has evolved from a four-page mimeographed publication into a weekly tabloid on Thursdays and daily publication online during the fall and spring semesters.

Students working on *The State Hornet* garner experience in reporting, editing, graphic design, photography, advertising, Web design, marketing, and management. As a working laboratory, *The Hornet* provides students with academic credits as well as opportunities for academic scholarships.

Buoyed by the paper's strong alumni support, recent graduates have gone on to positions with the Associated Press, the *Los Angeles Times*, *Newsday*, *The Sacramento Bee*, *Sactown* magazine, and many other print and digital news publications. *The State Hornet* boasts a state-of-the-art newsroom stocked with Macintosh computers and Canon cameras. Numerous awards over the years include the General Excellence Award from the California Newspaper Publishers Association, and Best in Show and the Online Pacemaker from Associated Collegiate Press.

University Union

(916) 278-6997
theuniversityunion.com (https://theuniversityunion.com/)

The University Union is a welcoming environment and central gathering place where students, faculty, staff, and alumni participate in campus life and events; it features a host of support services and facilities to meet the ever-changing needs of the Sacramento State community.

Services

The Union houses the Hornet's Nest Food Court, which features Buzz Burger Bar, Gordito Burrito, Panda Express, Good Eats, and The Roost. The Union is also home to Starbucks, Round Table Pizza, Jamba Juice, and Ace Sushi. In addition, Epicure restaurant offers full service dining with indoor and outdoor seating.

The Union has amenities such as an information desk, games room, meditation room, art gallery, computers and printers, various open lounge spaces and dining seating, mother's rooms, a convenience store, and a music/video on-demand area for students.

Facilities

The University Union provides a large ballroom, a 175 fixed-seat auditorium, and approximately 14 other rooms and suites, several of which that can sub-divide to accommodate almost any size meeting or event. The Union houses many offices and programs, including Student Organizations and Leadership, Union Event Services, PRIDE Center, Women's Resource Center, CARES Office, ASI Student Engagement and Outreach, ASI Food Pantry, ASI Government, ASI Business & Student Shop, KSSU Radio, ASI Peak Adventures, Dean of Students Office, Epicure Catering, and the Police Service Center.

UNIQUE Programs

University Union, Third Floor
(916) 278-3928
uniqueprograms@sacstateunique.com
www.sacstateunique.com (http://www.sacstateunique.com/)

University Union UNIQUE Programs is a student volunteer program that brings a wide variety of cultural, educational, and entertainment programs to Sac State. These activities include a Cultural Affairs Series, performing arts, lectures, and a weekly Wednesday "Nooner" event series, as well as an array of special films, concerts, and comedy showcases, typically on Thursdays.

Students interested in participating in the planning, promotion and production of innovative, quality campus programs should contact UNIQUE to learn more.

Aquatic Center

Lake Natoma
(916) 278-2842, (916) 278-1105
www.sacstateaquaticcenter.com (http://www.sacstateaquaticcenter.com)

The Sacramento State Aquatic Center is Northern California's most comprehensive aquatic boating safety center and is celebrating 39 years of service to the students, faculty, staff, and alumni of Sacramento State and the Sacramento community. Located on beautiful Lake Natoma, (only 20 minutes from campus) the center provides high quality boating instruction and safety programs through education, recreation, and competition.

Established in 1981, the Center is a program of Associated Students, Inc. and also supported by the University Union of California State University, Sacramento. The program has successful partnerships with: California Department of Parks and Recreation, the U.S. Bureau of Reclamation and the California Division of Boating and Waterways.

The Aquatic Center's programs include classes for academic credit; leisure classes open to the community in: sailing, windsurfing, rowing, kayaking, stand-up paddling, canoeing, outrigger canoe, water ski, wakeboard, and "jet ski". The Sacramento State Aquatic Center is also the home of the Sacramento State Rowing Club and Women's Rowing Team and Sacramento State Wakeboard and Water Ski Clubs. The Aquatic Center prides itself on hiring Sacramento State Students.

The Center is open to the general public as well as to Sacramento State students, faculty, staff, and alumni, who can receive a discount on boat rentals and leisure classes by showing their OneCard or Sac State Alumni Affiliation card.

Located next to Nimbus Dam at Highway 50 and Hazel Avenue, the Aquatic Center offers, Beach Reservations, Facility Reservations, Team Building Activities, Private Lessons, Summer Youth Camps and Youth Groups; additionally, there is an abundance of aquatic equipment available to rent: canoes, kayaks, stand up paddle boards, hydro bikes, rowing shells, sailboats, and windsurfing boards.

The Aquatic Center has hosted the NCAA Women's National Championships, Intercollegiate Rowing Association Championships, US Rowing Youth National Championships, Pac 12 Conference Championships, West Coast Conference Championships, American Athletic Association Championships, Western Intercollegiate Rowing Association Championships and US Rowing Southwest District Rowing Championships. Hosting annual regional and national rowing regattas, water ski tournaments, and special events attracting local, national, and international athletes, the Aquatic Center is a benchmark aquatic and boating safety facility that brings national and international visitors to Sacramento State and Lake Natoma.

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Intercollegiate Athletics

Department of Intercollegiate Athletics
Athletics Center
(916) 278-6481
www.hornetsports.com (http://www.hornetsports.com/)

Sacramento State is committed to providing equal opportunities to male and female students in intercollegiate athletics. Nearly 500 student-athletes participate in the athletics program with athletic scholarships awarded to student-athletes in every sport.

The A.G. Spanos Sports Complex provides excellent facilities for football and a superior track and field facility that was selected to host the U.S. Olympic Track and Field Trials in 2000 and 2004, the NCAA Division I Outdoor Championships in 2003, 2005, 2006 and 2007, the USATF National Championships in 2014 and 2017, the Junior Olympics in 2016, and the 2018 and 2019 NCAA West Regionals.

Sacramento State was also the host institution for the 2017 NCAA Men's Basketball Tournament first and second rounds at the Golden 1 Center, and will host again in 2020.

The Nest serves as the home for women's volleyball, men's and women's basketball, and women's gymnastics. Both the baseball and softball teams had their on-campus stadiums recently renovated with the baseball field receiving permanent lights in 2016. The men's and women's soccer teams also compete in a renovated facility. The women's rowing team trains and competes at the Sacramento State Aquatic Center on Lake Natoma, rated as one of the nation's top aquatics facilities. The venue has hosted the NCAA Women's Rowing Championships 10 times since 1997.

The Eli and Edythe Broad Fieldhouse, a 25,000 square-foot structure at the south end of the Spanos Sports Complex, was opened in 2008. The state-of-the-art facility houses football and track and field locker rooms, offices, and meeting rooms as well as an athletic performance center, athletic training center, and equipment room.

Student-athletes benefit from quality athletic training and strength & conditioning facilities. There are six full-time athletic trainers, consulting and treating student-athletes daily. In addition, each sport has a designated strength and conditioning coach for its student-athletes.

Sacramento State competes at the Division I level of the National Collegiate Athletic Association (NCAA) and is a member of the Big Sky Conference in football (FCS), men's and women's basketball, men's and women's cross country, men's and women's indoor and outdoor track, men's and women's tennis, men's and women's golf, softball, volleyball and women's soccer. The University's baseball team competes in the Western Athletic Conference (WAC) and the gymnastics program is a member of the Mountain Pacific Sports Federation. The men's soccer and beach volleyball teams compete in the Big West Conference and the rowing team resides in the American Athletic Conference. Beach volleyball was added as Sacramento State's 21st intercollegiate sport in 2013.

Since 2006, Sacramento State athletics has combined to win 61 conference championships. In addition, Hornet student-athletes have achieved at least a 3.00 overall grade point average 10 consecutive semesters. Prior to that, Hornet Athletics had never achieved a grade point average higher than a 2.99.

All registered Sacramento State students with a valid One Card are admitted free of charge to regular season on-campus home athletic events.

ASI Peak Adventures

The University Union, First Floor
(916) 278-6321
www.peakadventures.org (http://www.peakadventures.org)

ASI Peak Adventures is the outdoor adventure program of Associated Students, Inc. at Sacramento State. ASI Peak Adventures provides outdoor trips, team building, a full service bike shop, and equipment rentals. They are dedicated to providing adventure education and leadership development opportunities to the campus and the community. They have been guiding people on outdoor adventures since 1989 and have become the most unique, diverse, and affordable outdoor recreation provider in Northern California.

The Outdoor Trips Program is all about increasing participants' outdoor confidence and helping them feel at ease while daring to adventure away from home. All trips are beginner friendly and everyone is welcome. Outdoor trip offerings include urban adventures, backpacking, day hiking, camping, mountain biking, rock climbing, snow trips, white water rafting and more! Outdoor rental gear is also available for those looking to venture out on their own!

The Challenge Center empowers individuals and teams to achieve greater results through a personalized learning experience they won't forget! Their skilled facilitators engage participants in interactive games that build relationships, challenging problem-solving activities that strengthen

teamwork, and exciting climbing opportunities to inspire personal growth. Over 8,000 participants from Sacramento area visit this on-campus ropes course per year.

The Bike Shop is conveniently located on the Sacramento State Campus and right off the American River Bike Trail. They proudly provide friendly and professional service at reasonable prices. Highly skilled bike technicians perform repairs, sell parts and accessories, teach bike maintenance classes and offer free clinics. The Bike Shop is open to the general public; however, Sacramento State students and staff receive special discounted pricing. The Bike Shop gets cyclists and their bikes rolling for commuting and recreating.

During the summer months ASI Peak Adventures offers week-long outdoor youth camps for campers ages 8-17. For the younger kids, activities include campus tours, arts and crafts, games, water activities and lots more! Older kids have the chance to experience new activities each day including the Challenge Center ropes course, outdoor rock climbing, caving, hiking and white water rafting.

“Adventure Begins Here”

The WELL

(916) 278-9355
www.thewellatsacstate.com (http://www.thewellatsacstate.com)

The WELL is a 151,000 square foot facility with over 120,000 feet of recreational space, including six volleyball courts, five basketball courts, four racquetball courts, three fitness studios, an indoor track, approximately 16,000 square feet of cardio machine and free weights, as well as the largest climbing wall in the CSU system. The WELL is also the home of Student Health & Counseling Services.

Located in The WELL, the Sacramento State Campus Recreation program provides opportunities for all students, faculty and staff to participate in intramural sports, informal recreation, fitness classes, personal training, and special events. In addition to structured activities, the WELL features open recreation hours for members who would like to shoot some hoops or run on our indoor track, as well as rock climbing for all skill levels, racquetball courts, and much more.

Students at The WELL may work toward reaching their fitness goals by utilizing the wide variety of cardio and strength equipment, participating in group fitness classes, or working with one of the WELL's nationally-certified personal trainers. Whether students are a beginning, intermediate or advanced exerciser, the WELL has options for everyone. The diverse schedule of group fitness classes includes yoga, zumba, pilates, cycling, and strength training among many others. Cardio machines, free weights, and strength equipment are available for open use during the building operation hours. The WELL also offers various wellness workshops and fitness assessments opportunities to help you reach your wellness goals.

Students may sign up as a team or as individuals for intramural sports such as flag football, tennis, basketball, volleyball and indoor and outdoor soccer. One day tournaments include dodgeball, golf, bowling, racquetball and badminton just to name a few, and the WELL offers men's, women's and co-recreational divisions in most sports and encourages everyone to join the fun - regardless of previous experience or skill level.

COLLEGES

Arts and Letters (p. 109)
Business Administration (p. 325)
Education (p. 394)
Engineering and Computer Science (p. 548)
Health and Human Services (p. 630)
Natural Sciences and Mathematics (p. 766)
Social Sciences and Interdisciplinary Studies (p. 890)

College of Arts and Letters

College Overview

The programs within the College of Arts and Letters present a diverse array of disciplines, from art and music to history and communication studies, yet they share the common mission of teaching students to elucidate the human condition and the rich variety of human expression. The College is committed to:

- enhancing students' awareness and aesthetic sensitivity through the study of literary and/or symbolic texts and engagement with the visual and performing arts;
- using literature and the arts in order to promote understanding of cultures and historical movements; and
- fostering critical thinking and effective oral and written communication skills.

The College includes the departments of Art, Communication Studies, Design, English, History, Humanities and Religious Studies, Music, Philosophy, Theatre and Dance, and World Languages and Literatures. The College offers 30 baccalaureate degrees, 24 minors, and 15 master's degrees, and one joint doctorate.

Students in the College of Arts and Letters develop skills in reasoning, problem solving, finding information, and communicating in both oral and written form, as well as developing an understanding of creative accomplishment in many cultures, past and present. Students also have access to a variety of opportunities to perfect their skills outside of the classroom, including service learning connections to the community; internships; producing or performing in plays, concerts, readings, and recitals; and exhibiting their art and design works on and off campus.

The College offers many courses in the University's General Education program as well as approved single-subject pre-credential preparation programs for students interested in the teaching profession in art, English, history, and music.

Faculty members in the College are dedicated to creating a learning environment that is student-centered and that encourages inquiry into the development of concepts and the exploration of ideas. Many of the faculty are nationally known scholars and artists.

For more information about the College of Arts and Letters, please click here (http://www.csus.edu/al/).

Program Descriptions

Art

The Department of Art has a long-standing reputation for its quality and diversity. Courses in art education, art history, and art studio promote creativity, visual literacy, and critical thinking. Graduate and undergraduate artists have the opportunity to exhibit their work in the Else and Witt Galleries. Exhibitions of work by nationally and internationally-significant artists take place in the University Library Gallery. The department offers lectures and symposia featuring presentations by renowned art educators, art historians, and artists.

Communication Studies

One of the larger departments in the University, the Department of Communication Studies offers degrees in general communication, organizational communication, public relations, media communications, digital media, journalism, and government journalism. The department provides a television studio, dedicated computer labs, an audio-editing suite, and a high-end video editing lab. The Department supports a variety of student activities including a nationally respected debate program, Public Relations Student Society of America chapter and the University's weekly newspaper, the *State Hornet*. Five of the faculty have won the College Outstanding Teacher Award in the past ten years, and key faculty are leaders in the Film program.

Design

The Department of Design prepares its students for a wide range of career opportunities in the fields of Graphic Design, Interior Design, and Photography. Our graduates are trained to work creatively and to explore new possibilities in their respective media while at the same time providing the highest quality of professional services to their clients.

The Department of Design recognizes that the environments in which we live and work are shaped by an ever-increasing quantity of visual information. This information, in the form of two and three dimensional images, comes to us from a variety of sources that utilize both traditional and technologically advanced modes of visual communication. To a greater extent than at any other point in our history, artists and designers are dissolving the boundaries between two and three dimensional visualization.

The Department of Design is well positioned to respond to the multifaceted nature of today's visual arts. By offering degree programs in Graphic Design, Interior Design, and Photography we are able to train our students in a wide range of visual and design practices that play a part in creating our built environment. Students in the Department typically take a group of core courses that introduces them to a vocabulary of shared visual concepts and techniques before moving on to advanced study in their selected field.

The Department of Design offers Bachelor of Arts in Photography and Interior Design, and a Bachelor of Science in Graphic Design. Programs in the Department are accredited by NASAD; the Interior Design Program is also accredited by CIDA, the professional organization that establishes standards for the practice of interior design.

English

The Department of English offers a wide variety of courses in composition, creative writing, film studies, language arts, literary studies, teacher preparation, and teaching English to speakers of other languages (TESOL). The faculty are dedicated to classroom excellence, and several of our faculty have received the College Outstanding Teacher Award and the Outstanding Service Award. The Department offers student assistantships, graduate teaching associateships, internships with companies like Intel, and a variety of endowed scholarships and writing contests. Many of the M.A. graduates teach in California community colleges, while others have been accepted into some of the country's top Ph.D. programs. Its undergraduate alumni work in a multitude of professional fields, including teaching, editing, journalism, law, literary agencies, and government.

History

The Department of History is a dynamic program, with over 500 undergraduate majors and graduate students. The department has a master's program with options in standard and public history and offers a Ph.D. in public history in cooperation with the University of California, Santa Barbara.

Humanities and Religious Studies

The Department of Humanities and Religious Studies offers the Bachelor of Arts with two concentration options. The Humanities concentration explores cultural eras and themes through study of literature, philosophy, the visual arts, music, drama, and film. The Religious Studies concentration focuses on beliefs and practices of the world's religions in their historical and cultural contexts. The department's Humanities M.A. program offers graduate-level studies with areas of concentration in ancient, modern, and global humanities.

Learning Skills

The Educational Opportunity Program offer courses, workshops, and individual assistance to students at all university levels. Program areas include composition, reading, study skills, mathematics, English for multilingual speakers, and special services for students with learning disabilities.

Courses numbered Learning Skills (LS) 1 through 49 are precollege level courses. These courses carry workload credit and may be counted only toward establishing full-time enrollment status. Precollege level course units are not applicable to the bachelor's degree. Course MLSK 199 carry regular bachelor's degree credits.

The following are specifically for Educational Opportunity Program students and are taught by Educational Opportunity Program faculty:

Code	Title	Units
ALS 39A	Special Problems for EOP Students	1 - 3
ALS 70A	Strategies of Learning for EOP Students	1
ALS 79A	Developing Student Leadership EOP	1 - 3

Course Repeat Policy

A student may only repeat one time the following Learning Skills Center courses (These courses may be taken a total of two times; a student enrolling in one of these a third time may be disenrolled.):

Code	Title	Units
ENGL 15	College Language Skills	4
ENGL 86	College Language Skills for Multilingual Students	4
ENGL 87	Basic Writing Skills for Multilingual Students	3

Music

The School of Music has a long and impressive history of preparing students for careers in music and for assuming a leadership role in the artistic life of Northern California. The School presents over two hundred concerts each year, including many student and faculty performances as well as outstanding guest artists programs in the Festival of New American Music, the New Millennium Series, the Piano Series, and the World Music Series. The School of Music offers a major for liberal arts students as well as professional degrees at the undergraduate and graduate level.

Philosophy

The Department of Philosophy offers four concentrations within its Bachelor of Arts in Philosophy. The General Major presents the broadest choice of electives. The concentration in Ethics, Politics,and Law is a pre-law program designed to develop analytic and argumentative abilities as well as skill in applying principles to cases, which will be needed by those preparing for a career in law. The concentration in Logic and Philosophy of Science offers preparation for graduate study in those areas. The Honors Concentration builds on one of the other concentrations. The Department maintains the Center for Practical and Professional Ethics, which provides a forum for exchange of ideas as well as a consultative resource in the community.

Theatre and Dance

The Department of Theatre and Dance actors, designers, technicians, directors, dancers, and choreographers as well as individuals with an interest in the history, theory, and criticism of theatre and dance. In addition, the Department maintains a strong commitment to multicultural performance and puppetry. A rigorous production season that involves students in every step of the creative process complements the formal curriculum.

World Languages and Literatures

The Department of World Languages and Literatures provides coursework in many languages including many traditional European languages as well as other worldwide strategic languages. The exposure to foreign language enhances cultural and linguistic understanding of peoples near and far. Department faculty teach language in a cultural context that expands the learner's worldview and increases job marketability in the ever-changing global society.

Students taking classes that meet the University's foreign language requirement build life-changing linguistic and cultural affinities that add value to their futures; while those who complete a degree in World Languages and Literatures also develop linguistic and cultural fluency. Additionally, all students are encouraged to participate in the various exchange opportunities overseas offered by CSUS exchange partnerships and the CSU System International Program.

The University Library Gallery features exhibitions of significant works of art by international, national and regional artists. In addition, the Gallery is a favorite campus venue for many artistic gatherings, such as poetry readings sponsored by the English Department, recitals and performances by the Music Department, and film showings associated

with the Film program. Special guided tours of current students and community groups are offered on a regular basis.

Contact Information

Sheree Meyer, Dean
Christina Bellon, Associate Dean
John Williams, Interim Associate Dean
Amanda Hadden, Administrative Support Coordinator

For more information, visit the Web site for the College of Arts and Letters at csus.edu/al (http://csus.edu/al/)
Mariposa Hall 5000

Art

College of Arts and Letters

Program Description

Through our courses, exhibitions, lectures and public programs, the Department of Art at Sacramento State introduces students and members of the local community to the expressive world of the fine arts. The Department also promotes an appreciation and understanding of the fine arts in the general student population. A wide variety of approaches based on both Western and Non-Western cultures are integrated into courses that are oriented toward creativity, imagination, and critical thinking. Students can explore art through courses in art education, art history, ceramics, new media art, painting, printmaking, and interdisciplinary sculpture.

The Department of Art serves as a significant cultural resource in the region through the sponsorship of art exhibits, workshops, lectures, and symposia each academic year. The department extends its influence out into the community through the involvement of its faculty, staff, and students in projects, activities, and events off campus. Courses, programs, and exhibitions sponsored by the Department serve to engage students in the visual arts within a liberal arts context and to promote appreciation of the fine arts in the general student population. Fieldwork experiences can be arranged with the Crocker Art Museum, Sacramento Metropolitan Arts Commission, and other public and private art institutions and galleries in the Capital region. Opportunities to study art and art history abroad are available through the Office of International Programs and Global Engagement at Sacramento State and the California State University International Program. University credit can be obtained for a semester to a year of study at college and international centers in Britain, Europe, Latin America, Asia, Africa, and Australia.

California State University, Sacramento is an accredited institutional member of the National Association of Schools of Art and Design (NASAD).

Visit us at http://www.csus.edu/art/.

Degree Programs

The Department of Art offers a wide range of courses in Art Education (https://www.csus.edu/art/Programs/Undergraduate/Art%20Education/), Art History (https://www.csus.edu/art/Programs/Undergraduate/Art%20History/) and Studio Art (https://www.csus.edu/art/Programs/Undergraduate/Art%20Studio/). Studio experiences develop the creative and artistic skills necessary for mastery of established styles and for exploration of new ones. Art history classes provide an appreciation for and an understanding of our visual cultural heritage within a historical context. Courses in art education provide an understanding of the behavioral aspects of art, with regard to the creator, the viewer and the developing person.

BA in Art (Art History) (p. 124)

BA in Art (Studio Arts Methods) (p. 126)

BFA in Studio Art (p. 128)

Art Education (Single Subject Pre-Credential Preparation) (p. 123)

Minor in Art Education (p. 132)

Minor in Art History (p. 132)

Minor in Art Studio (p. 133)

MA in Art (p. 131)

Special Features

- The Department's main facility consists of two buildings, Kadema Hall and the Art Sculpture Lab. Some Art Studio and Art History courses also are taught in Mariposa Hall.
- Two art exhibition spaces, the Robert Else Gallery and the R.W. & Joyce Witt Student Art Gallery, are located in Kadema Hall. Graduate, undergraduate, and shows featuring regionally and nationally known artists are held here throughout the academic year.
- Four types of Art Department awards are available. The Raymond W. and Joyce Witt Awards and the Peyser Prize in Painting are awarded annually during a juried exhibition of artwork by undergraduate students. There also is a Witt Award in Art History. The Robinson Memorial Fellowships are open to all classified graduate art students.
- Four Art Department scholarships also are offered. The Peggy Saunders Hall Memorial Scholarship, the Juanita and José Montoya Memorial Art Scholarship and the Marla Chicconi Memorial Endowed Art Scholarship are all intended to support outstanding undergraduate art students who have chosen teaching as a future goal. The Ruth Rippon Ceramics Scholarship is awarded to an outstanding undergraduate or graduate Art student who shows promise in making ceramic art a career. The Jeanette B. Yuppa Scholarship is available to all art majors.
- Faculty members have national reputations as artists and scholars. Works by Art Studio faculty can be found in major collections, including the Museum of Modern Art, the Whitney Museum of American Art, and the American Craft Museum in New York; the Minneapolis Art Institute; the San Francisco Museum of Modern Art; the Di Rosa Art and Nature Preserve in Sonoma; the Art Institute of Chicago; Yale University; the Rockefeller Institute; and the Museum of Modern Art in Tokyo. Publications by Art Education and Art History faculty are available through the University Library.

Career Possibilities

Art Conservator · Art Consultant · Art Critic · Art Dealer · Art Historian · Art Librarian · Artist · Artist Representative · Art Teacher · Arts Administrator · Art Therapist · Ceramicist · Gallery Director · Jewelry Designer · Metalsmith · Museum Work · New Media Artist · Painter · Photographer · Printmaker · Sculptor · Visual Resource Curator

Contact Information

Carolyn Gibbs, Department Chair
Kadema Hall 185
(916) 278-6166

Department of Art Website (http://www.csus.edu/art/)

Faculty

CHIRAPRAVATI, PATTARATORN

CLARKE, RACHEL

CONNELLY, ANDREW

DOSCH, MYA

FLOHR, SARAH

GIBBS, CAROLYN

HARVEY, IAN

HITCHCOCK, PHILIP S.

MILLER, RACHEL

MONTEITH, TOM

O'BRIEN, ELAINE

ORTBAL, ROBERT

PARADY, SCOTT

VENTIS, SUMMER

WILLAMS, PETER

ART 1A. Art, Religions, and Power before 1400. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

An introduction to art and visual culture from across the ancient world, including Africa, the Americas, Asia, and Europe. Students will analyze and compare art from a variety of cultures, exploring themes such as ¿Gender, Race, and The Body,¿ ¿Sacred Art/Sacred Space,¿ and ¿Art and Power.¿

ART 1B. Art in the Western World: From Renaissance to Baroque. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Survey of architecture, crafts, painting, and sculpture of the Eastern Mediterranean and European cultures.
Note: Recommended for freshman or sophomore years. It is recommended that ART 1A be taken before ART 1B.

ART 1C. Global Modern and Contemporary Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

A 3-unit lecture based survey of the history of world art from the late 18th century to the present, from the European Rococo, Enlightenment, age of science and revolution, through Neo-Classicism, Romanticism and the rise of the international avant-garde, Realism, Impression, Symbolism, photography and film. In the 20th century, Fauvism, Cubism, the Bauhaus, Expressionism, Pop, Minimal art, Postmodernism, conceptualism, performance, video and new media are considered from global perspectives and artistic production. Part of the art history foundation sequence.
Note: Recommended for freshman or sophomore years; It is also recommended that ART 1A and/or ART 1B be taken before ART 1C.

ART 2. History of Islamic Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Introduces students to the art and architecture of major Islamic cultures and offers a background in the religion and philosophy of Islam. Works of art from Muslim countries and regions are studied in comparison to those of other major Asian and European cultures. Lecture. 3 units

ART 3A. Traditional Asian Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Introduces students to the art and architecture of Asia from the pre-historic through pre-modern periods (approximately 1600). The styles, subjects, and significance of the art of India, Sri Lanka, Indonesia, Thailand, Burma, Cambodia, Tibet, China, Japan and Korea will be presented in a broad context including the history, geography, ethnic populations, languages, and religions of these countries (i.e., Buddhism, Hinduism, Jainism, Islam, Daoism, and Shinto).

ART 3B. Modern and Contemporary Asian Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

Covers the art and architecture of Asia from the modern period to the present day. Attention will be given to the impact of outside influences upon the development of art in several Asian countries, including India, Thailand, Vietnam, Indonesia, Philippines, China, Korea, and Japan. Contacts between those countries, their exposure to western visual culture through new or increased contact with the west, and the spread of Christianity all had an impact on Asian art during the period under consideration.

ART 4. European Visual Traditions. 3 Units
Term Typically Offered: Fall only

An introduction to European art and visual culture created from ca. 800 to 1800, from the age of Charlemagne to the French Revolution and the reign of Napoleon. This course will cover painting, architecture, sculpture, and the decorative arts and will analyze creative work in the context of religious, political, and social change.

ART 5. Art of the Americas. 3 Units
Term Typically Offered: Spring only

An introduction to art and visual culture from across the Americas, from ancient civilizations to the present, with an emphasis on indigenous cultural production. Students will analyze and compare creative work from a variety of cultures and time periods, exploring themes such as ¿Expressing Identities,¿ ¿Humans in the Natural World,¿ ¿Death, the Afterlife, and Living on,¿ and ¿Colonization and Resistance.¿

ART 7. Introduction to Art and Visual Culture. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

For the general education student who wants to explore the world of art and visual culture. A wide range of multicultural, historical, and contemporary art works, art media, art history, art ideas, and art practices are presented through illustrated lectures, discussions, field trips, guest lectures, studio visits, and beginning-level art projects.
Field trip(s) may be required.

ART 20A. Beginning Drawing. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring, Summer

Introduction to various techniques of and approaches to drawing, using still lifes, landscapes, and figures.
Note: fee course.

Fee course.

ART 20B. Intermediate Drawing. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall, Spring

Extension of drawing experiences initiated in ART 20A, with emphasis on surveying materials and concepts pertinent to contemporary and historical drawing.
Note: fee course.

Fee course.

ART 22. Beginning Painting. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall, Spring

Introduction to the methods and problems of painting in oil or acrylic medium.
Note: May be taken twice for credit. Fee course.

Fee course.

ART 24. Beginning Watercolor. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Not offered

Introduction to both transparent and opaque watercolor.
Note: May be taken twice for credit. Fee course.

Fee course.

ART 27. Beginning Color. 3 Units
Term Typically Offered: Fall, Spring

Investigation of the interactions of color based on the laws of perception, color composition, space, and design. An empirical study of the phenomena of color as developed by Josef Albers and Johannes Itten, and the use of color as a visual experience with acrylic paints.

ART 40. Beginning Printmaking. 3 Units
Prerequisite(s): ART 20A or ART 60
Term Typically Offered: Fall, Spring

Introduction to printmaking processes, their history, and their contemporary applications. Students will learn a combination of basic relief, intaglio, lithography, monotype, and/or screen print techniques, along with their historical and contemporary context.
Note: Fee course. This course will carry a fee of $75 to cover ink, plates, and other supplies.

Fee course.

ART 40B. Basic Printmaking: Etching. 3 Units
Term Typically Offered: Fall, Spring

Introduction to intaglio techniques, including etching, drypoint, and aquatint. Fee course.
Fee course.

ART 40D. Basic Printmaking: Relief. 3 Units
Term Typically Offered: Fall, Spring

Introduction to wood and linoleum cutting and printing. Fee course.
Fee course.

ART 40E. Basic Printmaking: Silkscreen. 3 Units
Term Typically Offered: Fall, Spring

Introduction to silkscreen processes and printing. Includes the construction of the equipment necessary to print direct drawing materials, and photo-established imagery. Fee course.
Fee course.

ART 50. Beginning Ceramics. 3 Units
Term Typically Offered: Fall, Spring

Projects in basic techniques and approaches to the potter's wheel. Fee course.
Note: May be taken twice for credit.

Fee course.

ART 53. Beginning Hand-Built Ceramics. 3 Units
Term Typically Offered: Fall, Spring

Basic techniques and approaches to pottery through practice in hand-building methods, including coil, slab, pinch, and combinations thereof.
Fee course.
Note: May be taken twice for credit.

Fee course.

ART 60. Two-Dimensional Composition. 3 Units
Term Typically Offered: Fall, Spring

Structured exploration of principles used to organize two-dimensional images. Basic art elements and their properties are explored in a series of progressive projects.
Note: Recommended for freshman or sophomore years.

ART 70. Form, Space Vision. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Foundation in three-dimensional design primarily concerned with the visual dialogue between form and space. A heightened visual sensitivity for three-dimensional composition is a major objective of every project. Line, plane, and volume are utilized separately and in concert to construct three-dimensional forms. A variety of materials are employed in the activation of form and space: wire, cardboard, clay, wood, and plaster. Fee course.
Note: Recommended for freshman or sophomore years.

Fee course.

ART 74. Beginning Jewelry. 3 Units
Term Typically Offered: Fall, Spring

Introduction to techniques and tools used in the design and fabrication of jewelry, such as lost wax casting, stone setting, and finishing processes. Emphasis is on compositional arrangement and finish. Fee course.
Fee course.

ART 75. Beginning Metalsmithing. 3 Units
Term Typically Offered: Fall, Spring

Introduction to techniques, tools, and methods used in fabrication of ferrous and non-ferrous metal, such as piercing, riveting, soldering, forging, and finishing processes. Emphasis is on composition and imagery. Fee course.
Fee course.

ART 80. Materials Methods. 3 Units
Term Typically Offered: Fall, Spring

Develops students' awareness of traditional and contemporary techniques used as the basis for fine and applied art. Devoted to materials and their methods of application, with most materials introduced via their traditional antecedents (for example, hide glue before modern epoxies). May be team taught. Lecture one hour; laboratory four hours. Fee course.
Note: Sophomore status and above recommended.

Fee course.

ART 86. Clay Sculpture. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Includes work with the various forms of hand-built sculpture in both low- and high-fire clay. Glazes are used sparingly to stress forms and their relationships. Fee course.
Fee course.

ART 88. Beginning Sculpture. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Introduction to traditional and non-traditional processes of sculpture and three-dimensional forms in space. Students can expect to use the following materials: cardboard, clay, metals, plaster, plastics, wire and wood to explore the making of three-dimensional imagery. Investigations will include the formulation of ideas relative to sculptural problem solving while discovering historical and contemporary examples of sculpture. Fee course.
Fee course.

ART 97. Beginning Electronic Art. 3 Units
Term Typically Offered: Fall, Spring

Explores the creative potential of imaging software used by visual artists. Familiarity with software, hardware and output devices will be established. The creation of digital art will be considered within the framework of current ideas in art and culture. No previous computer experience is necessary. Fee course.
Fee course.

ART 100. Origins of American Indian Art. 3 Units
Term Typically Offered: Fall only

Survey of 19th and 20th century American Indian art. Emphasis is on the student's involvement with Indian art and includes discussion of Indian philosophy and art techniques.

ART 101. Photography, Inception to Mid-Century. 3 Units
Term Typically Offered: Fall only

Introduces students to the history of photography, from inception to Mid-20th Century. Practices of photographers and artists, working with photographic technologies, will be discussed. The course examines photographic vision and the impact of the medium through lectures and readings by art historians and photographers.
Cross-listed: PHOT 101.

ART 102. Themes in World Art and Visual Culture. 3 Units
Prerequisite(s): GWAR certification before Fall 2009; or WPJ score of 80 or above; or 3-unit placement in ENGL 109M/W; or 4-unit placement in ENGL 109M/W + co-enrollment in ENGL 109X; or WPJ score 70/71 + co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Arts (Area C1)
Term Typically Offered: Fall, Spring

A thematic exploration of world art and visual culture throughout human history. Throughout this course, students will be able to draw connections between works of art created in various time periods and from a diverse variety of cultural contexts.

ART 103. Art of the Ancient Mediterranean. 3 Units
Prerequisite(s): ART 1A
Term Typically Offered: Fall only

Architecture, crafts, and sculpture in the ancient Mediterranean world from ca. 700 BCE to ca. 500 CE.

ART 105. Medieval Art. 3 Units
Prerequisite(s): ART 1A or equivalent.
Term Typically Offered: Spring only

Architecture, crafts, painting, and sculpture of medieval Western Europe.

ART 106. Renaissance Art. 3 Units
Prerequisite(s): ART 1A or ART 1B, or equivalent.
Term Typically Offered: Fall only – even years

Architecture, painting, graphic arts, sculpture, and crafts principally of the 15th and 16th centuries. Emphasis is on the art of Europe in the historical context of an emerging global consciousness.

ART 107. Baroque and Rococo Art. 3 Units
Prerequisite(s): ART 1B or equivalent.
Term Typically Offered: Spring only – odd years

European architecture, painting, and sculpture of the 17th and 18th centuries.

ART 108. 19th Century Art. 3 Units
Prerequisite(s): ART 1C or equivalent.
Term Typically Offered: Fall, Spring

European architecture, painting, and sculpture of the 19th century.

ART 109. Modern Art. 3 Units
Prerequisite(s): Upper-division standing and ART 1C or equivalent with instructor approval.
Term Typically Offered: Fall only

Presented as the cultural episode that began with the emergence of the avant-garde in mid-nineteenth century Paris and ended in the middle of the twentieth century with WW II and the beginning of the postmodern era: from Realism, the birth of photography, and Impressionism through the high modernist movements associated with the international School of Paris, including Fauvism, Cubism, Constructivism, Dada, and Surrealism. It concludes with post-WW II expressions, including Abstract Expressionism.

ART 110. US and Caribbean Art: Race and Representation. 3 Units
Prerequisite(s): Any lower-division GE course in art history (ART 1A, 1B, 1C, 2, 3A, 3B, 4, 5, or 7).
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Spring only

Provides an overview of U.S. and Caribbean art from the colonial period to the present, with an emphasis on the role of race in constructing individual, community, and national visual identities. Considers artworks by African-American, Asian-American, Indigenous, Latinx, and White artists, underscoring the dynamic interactions between race, class, gender, and sexuality in the visual arts. Field trip.
Field trip(s) may be required.

ART 111. Latin American and Latino Art History. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only

Provides an overview of Latin American and Latino art from the independence movements of the 1820s to the present. After an introductory survey of pre-Columbian and Spanish colonial art, the art of Mexico, Central and South America, the Caribbean and the U.S. is studied within the contexts of contemporaneous cultural, intellectual, political and social history. The diverse visual cultures of Latin American and Latino art are thematically unified by an examination of common concerns and motivations.

ART 112. Contemporary Art. 3 Units
Prerequisite(s): ART 1C or ART 109 or instructor permission.
Term Typically Offered: Spring only

Beginning with international Pop art and Minimalism in the 1960s, surveys the history of contemporary art from the end of avant-garde modernism to the postmodernism and globalism of today. Lectures, discussions, readings and assignments offer insights into the contexts, attitudes, and ideas behind current art and visual culture.
Note: Taught in conjunction with ART 212.

ART 113B. Asian Art and Mythology. 3 Units
Prerequisite(s): ART 3A or equivalent or instructor permission.
Term Typically Offered: Spring only – odd years

Survey and investigation of selected myths from Asian cultures and traditions.

ART 114. Topics in Early Modern Art. 3 Units
Prerequisite(s): ART 1A or ART 1B; an upper division art history course in a related subject area; upper division or post-baccalaureate status; and GWAR certification before Fall 2009; or WPJ score of 80 or above; or 3-unit placement in ENGL 109M/W; or 4-unit placement in ENGL 109M/W + co-enrollment in ENGL 109X; or WPJ score 70/71 + co-enrollment in ENGL 109X.
Term Typically Offered: Fall only – even years

Seminar on topics in early modern art history.
Note: Course may be taken twice for credit, if the topic is not the same.

ART 115. Topics in Asian Art. 3 Units
Prerequisite(s): Upper division or graduate status; completion of ART 3A (or equivalent); and an upper division Asian art history course such as ART 117A, ART 117B, ART 113B, or or instructor permission; GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109M/W.
Term Typically Offered: Fall only

Seminar on topics in Asian art.

ART 116. Topics in Modern and Contemporary Art. 3 Units
Prerequisite(s): Upper division or graduate status; completion of ART 1C (or equivalent); and an upper division art history course in a related subject area (or instructor permission); GWAR certification before Fall 09, WPJ score of 70+, or at least a 'C-' in ENGL 109 M/W.
Term Typically Offered: Fall only

Seminar on topics in modern and contemporary art history.

ART 117A. Art of India and Southeast Asia. 3 Units
Prerequisite(s): ART 3A or equivalent, or instructor permission.
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Provides a broad overview of the architectural remains and visual arts of India and Southeast Asia from prehistory to the present. Consideration will be given to the art styles, iconography, history, geography, ethnic populations, languages, and religions (i.e., Buddhism, Hinduism, Jainism, and Islam) of each region.

ART 117B. Art of China and Japan. 3 Units
Prerequisite(s): ART 3A or equivalent, or instructor permission.
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

Provides a broad overview of the architectural remains and visual arts of China and Japan from prehistory to the present. Consideration will be given to the art styles, iconography, history, geography, ethnic populations, languages, and religions (i.e., Buddhism, Taoism, and Shintoism) of each region.

ART 117C. Art of Korea. 3 Units
Term Typically Offered: Spring only – even years

Introduces students to the art and architecture of Korea from the pre-historic through contemporary periods. The styles, subjects, and significance of the art of Korea will be presented in a broad context including the history, geography, ethnic populations, languages, and religions of Korea (i.e., Buddhism, Daoism, Confucianism, and Christianity).

ART 118A. Modern Architecture. 3 Units
Prerequisite(s): ART 1C (or equivalent), or instructor permission.
Term Typically Offered: Not offered

A survey of modern architecture which covers the architectural theories and principles underlying certain significant structures. Special consideration is given to an analysis of the works of 20th century pioneers and their followers, such as Wright, Gropius, Le Corbusier, Van der Rohe, Aalto, and Johnson, among others, and to certain movements, such as the International Style, Brutalism, and Formalism.

ART 118B. California Architecture and Urban History. 3 Units
Term Typically Offered: Fall, Spring

Survey of the history of California architecture and its impact on the urban environment from Native Americans to the 20th century. Particular attention will be given to architecture as a symbol or statement of social, economic, and political empowerment.
Cross listed as HIST 184; only one may be counted for credit.

ART 118C. Public Art in the Americas. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only – odd years

Explores the major issues in the history of public art in the Americas, including monuments, memorials, murals, graffiti, and new media art. Particular attention will be given to public art in Sacramento. Field Trip. Field trip(s) may be required.

ART 119. Directed Research in Art History. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 120. Advanced Drawing. 3 Units
Prerequisite(s): ART 20B or equivalent.
Term Typically Offered: Fall, Spring

Continuing investigation of drawing. Emphasis is on the development of individual style.
Note: May be taken twice for credit.

ART 121. BFA Junior Studio. 3 Units
Term Typically Offered: Fall, Spring

Junior-level studio art course designed to prepare students for the senior year of the BFA degree. Course builds dialog among an interdisciplinary cohort of BFA students while engaging them with contemporary professional practices in the arts. Emphasis placed on students' ability to communicate about their work through critiques with faculty, peers, and visiting artists, preparation of professional documents and presentations. Fee course. Pre-requisite: Completion of a minimum of 3 units upper division studio coursework, second semester Junior standing with 75 units minimum.
Fee course.

ART 122A. Intermediate Painting. 3 Units
Prerequisite(s): ART 22 or equivalent.
Term Typically Offered: Fall, Spring

Continuing investigation of the technical and conceptual issues of painting.
Note: May be taken twice for credit.

ART 122B. Advanced Painting. 3 Units
Prerequisite(s): ART 122A, or ART 124A, or ART 125A, or ART 126, or instructor permission.
Term Typically Offered: Fall, Spring

Continuing investigation of the technical and conceptual issues of painting, with an emphasis on intensive individual exploration.
Note: May be repeated four times for credit.

ART 123. Figure Drawing. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall, Spring

Concentrates on the development of drawing and visual skills with emphasis on the human figure. Strong emphasis is placed on anatomical knowledge of the body and its expression through drawing techniques. The effects of volume and movement in space as well as compositional possibilities with the figure are explored. Slides are used to inform students of the drawing techniques achieved in historic and contemporary images. Fee course.
Note: May be taken for credit three times.

Fee course.

ART 124A. Intermediate Watercolor. 3 Units
Prerequisite(s): ART 24 or equivalent.
Term Typically Offered: Spring only – odd years

Continuing investigation of the technical and conceptual issues of painting, using transparent water media.
Note: May be taken twice for credit.

ART 124B. Advanced Watercolor. 3 Units
Prerequisite(s): ART 124A or equivalent.
Term Typically Offered: Fall, Spring

Continuing investigation of the techniques and conceptual issues of painting using transparent water media, with emphasis on intensive individual exploration.
Note: May be taken four times for credit.

ART 125A. Life Painting. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall only

Painting from professional models.
Note: May be taken for credit twice. Fee course.

Fee course.

ART 125B. Life Studio. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall, Spring

Drawing and painting from professional models. Fee course.
Note: May be taken twice for credit.

Fee course.

ART 126. Painting and Drawing in the Field. 3 Units
Prerequisite(s): ART 22 or ART 24, or equivalent.
Term Typically Offered: Fall, Spring

Further development of painting and drawing skills with emphasis on direct observation and use of color to make form. Class will meet at specific landscape sites to work, with primary focus on painting. In addition, work will be developed in the classroom based on prior field study. Critiques will examine how one situation is variously interpreted.

ART 127. Collage and Assemblage. 3 Units
Prerequisite(s): ART 20A, ART 22 and either ART 70 or ART 88 (or equivalent), or instructor permission.
Term Typically Offered: Spring only

Use of found and readily available materials to make 2-dimensional collage and 3-dimensional assemblage. Most projects are conceptual, a few purely visual, and take from one to three class periods, including critique, and class discussions.
Note: May be taken twice for credit. Fee Course

Fee course.

ART 128. Art and the Artist in the Marketplace. 3 Units
Term Typically Offered: Spring only

Study of the thought processes and preparations for presenting one's artwork in the marketplace. An overview of what it takes to begin showing and selling artworks, including the skills and procedures of presenting artwork to galleries. A study of contracts, loan agreements, invoicing, commissions, model releases, taxes, pricing of work, resumes, slide preparation/presentation, publicity skills, and record keeping. Lecture, field trips to galleries and museums.
Field trip(s) may be required.

ART 129. Painting/Drawing Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 130. Theories in Art Education. 3 Units
Prerequisite(s): Upper division or graduate status; declared major in Art.
Term Typically Offered: Spring only

Overview of national and international theories in the fields of visual art and education through historical and contemporary literature with particular attention to strategies for engaging student populations in the topics.

ART 133. Art Education for Children. 3 Units
Prerequisite(s): Upper division status; declared major or minor in Art, or a declared major in Child Development, or Liberal Studies, or Blended Liberal Studies
Term Typically Offered: Fall, Spring, Summer

Intended for students who are preparing to become elementary school teachers in California, providing meaningful, thematic instruction suitable for grades 1-6. Students will explore several 21st century education approaches applicable to both elementary generalists and visual art specialists, including meaning making, visual culture, holistic integration, learner-directed, and standards-based. Students will explore and evaluate the Common Core State Standards and the California Visual and Performing Arts Standards.
Note: Fee course.

Fee course.

ART 134. Interdisciplinary Art. 3 Units
Prerequisite(s): ART 20A and upper division status.
Term Typically Offered: Fall, Spring

Students learn how to make connections and relationships between visual art and curriculum subjects such as ecology, history, anthropology, language arts, theatre and music. Through studio activities and interdisciplinary themes, students will learn how to integrate the California Visual Art Content Standards.

ART 135. Overview of Secondary Art Education. 3 Units
Prerequisite(s): ART 133 or instructor permission.
Term Typically Offered: Fall, Spring

Exploration of visual art and education theories, studio practices, curriculum development, and teaching strategies for art at the secondary school level. Students will explore and evaluate the National Core Arts Standards.

ART 137. Art for Exceptional Children. 3 Units
Term Typically Offered: Fall, Spring

Art is studied as a means of meeting the learning needs of atypical children, whose ages range from infancy through adolescence, and whose atypical characteristics consist of mental deficiencies, physical disabilities, emotional problems, or gifted abilities. Lectures, readings, and class discussions focus on the characteristics, and art curriculum goals of exceptional children, while studio activities provide experiences with art media. Lecture, laboratory. Fee course.
Fee course.

ART 139. Directed Research in Art Education. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open only to upper division art majors/minors who have successfully completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 140. Intermediate Printmaking. 3 Units
Prerequisite(s): ART 40
Term Typically Offered: Fall, Spring

Intermediate-level study of printmaking processes, their history, and their contemporary applications. This course focuses on a single set of printmaking media each semester: Intaglio, Relief/Monotype, Lithography, or Screen Printing. Students will engage with the relationship between research, content, and process to develop a body of work through assigned and self-designed projects.
Note: Fee course. This course will carry a fee of $75 to cover ink, plates, and other supplies. This course may be repeated for up to 6 units of credit.

Fee course.

ART 141. Advanced Silkscreen. 3 Units
Prerequisite(s): ART 40E or equivalent.
Term Typically Offered: Fall, Spring

Advanced work in silkscreen including photo-silkscreen. Emphasis is on exploration of color and imagery.
Note: May be taken for credit four times.

ART 142. 3D Computer Modeling. 3 Units
Prerequisite(s): CSC 10 or ART 97 or equivalent.
Term Typically Offered: Fall, Spring

Techniques and processes to create 3D computer models and environments. Exercises, assignments and projects designed to build skill levels with 3D computer modeling tools. Demonstrations and workshops in the use of 3D computer modeling software. Critiques, discussion and presentations to develop students' conceptual grasp of 3D computer modeling and virtual reality environments. Example applications in art/new media and computer gaming.
Note: May be taken twice for credit. Cross-listed as CSC 126.

ART 143. 3D Computer Animation. 3 Units
Prerequisite(s): ART 142 or CSC 126.
Term Typically Offered: Fall, Spring

Creative skills and techniques for animating 3D computer-modeled objects/environments. Topics include animation techniques; keyframing and interpolation; deformation and morphing; path control; skeletal animation; model rigging and skinning; forward and inverse kinematics, constraints and IK solvers; particle systems; fluid, cloth, hair, and fur simulation; shape keys; and soft body animation. Emphasis on both skill development and creative application of modeling and animation techniques. Includes demos, in class and homework excercises, and self directed projects.
Cross-listed: CSC 127.

ART 144. Digital Printmaking. 3 Units
Prerequisite(s): ART 97 or equivalent.
Term Typically Offered: Fall, Spring

Through traditional and digital print media, the course explores the convergence of digital imaging (vector and raster processes) and printmaking techniques (such as monoprint, lithography, etching and silkscreen). Vector graphics use geometry: points, lines and fills, creating crisp re-scaleable images. Raster graphics use a rectangular grid of pixels to create continuous-tone effects. By exploring these approaches and their transference to printmaking processes, students gain deeper understanding of print technology and a more tactile awareness of image making. Fee course.
Note: May be taken twice for credit.

Fee course.

ART 145. Advanced Printmaking Studio. 3 Units
Term Typically Offered: Fall, Spring

Advanced exploration of printmaking media (etching, lithography, relief, and monoprinting techniques) within a historical framework. Students investigate the printmaking techniques of historically significant figures and apply them to their own imagery.
Note: Open to students with experience in upper division painting or photography, or lower division printmaking. May be taken twice for credit. Fee course.

Fee course.

ART 146. Creative Coding. 3 Units
Prerequisite(s): ART 97 Fee course
Term Typically Offered: Fall only

Introduces techniques and artistic perspectives on interactivity and computationally-generated visual composition for New Media Artists. Nonlinear, dynamic, and generative approaches to composition, animation, video, and data processing are covered.
Note: This course is recommended for students planning to take ART 143 and ART 198.

ART 147. Video Art. 3 Units
Prerequisite(s): ART 97 or COMS 27A/FILM 27A and COMS 27B/FILM 27B.
Term Typically Offered: Fall, Spring

The creation and analysis of video artwork; including techniques of video production, post-production manipulation and critique, within the context of art and communication. The techniques and theory of producing and editing video will serve as a foundation for the pursuit of individual, creative projects.
Cross-listed as COMS 157; only one may be counted for credit.

ART 148. Barrio Art for Ethnic Groups. 3 Units
Term Typically Offered: Fall, Spring

Provides a cultural situation for students who expect to work with the Mexican American community. Involves personal contact with persons in that community. Uses poetry, music, slides, and film to understand art as a non-verbal language.
Note: May be taken twice for credit.

ART 149. Graphics/Printmaking Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition.
Term Typically Offered: Fall, Spring

Open only to upper division art majors/minors who have completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 150. Advanced Ceramics. 3 Units
Prerequisite(s): ART 50 or equivalent.
Term Typically Offered: Fall, Spring

Advanced study of ceramic techniques leading toward the development of an individual creative expression. Fee course.
Note: May be taken for credit four times.

Fee course.

ART 153. Hand-Built Ceramic Techniques. 3 Units
Prerequisite(s): ART 53 or equivalent.
Term Typically Offered: Fall, Spring

Specialization in hand-built clay forms. Methods of working include coil, slab, pinch, and combinations of techniques which might include some wheel-thrown parts, decoration, and glazing of forms. Fee course.
Note: May be taken for credit four times.

Fee course.

ART 159. Ceramics Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 161. Photography in the Field. 3 Units
Prerequisite(s): PHOT 141 or instructor permission.
Term Typically Offered: Fall, Spring

The class visits specific sites followed by a group critique of the resulting photographic work. The course objective is to examine how one situation can be interpreted by many varied sensibilities, broadening the artist's visual vocabulary. Students are required to create visually unified portfolio that demonstrates a sense of place.
Cross-listed: PHOT 161.

ART 162. Alternative Photographic Processes. 3 Units
Prerequisite(s): PHOT 141 or instructor permission.
Term Typically Offered: Fall, Spring

Studio course exploring alternative photographic processes that may include: printing-out paper, new cyanotype, argyrotype, and platinum-palladium. Slide discussions, individual and class critiques.
Cross-listed: PHOT 162.

ART 163. Pinhole Photography. 3 Units
Prerequisite(s): PHOT 40 or equivalent.
Term Typically Offered: Fall, Spring

Intermediate course investigating the theory, history, and practice of pinhole photography. Use of student-made pinhole cameras of varying focal lengths using black and white and color materials. Emphasis on creative approach in both camera making and image formation, supported by intermediate-level photographic technique. Individual final portfolios and group exhibition of cameras and prints at conclusion of course.
Cross-listed: PHOT 163.

ART 169. Photography Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed successfully 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 174. Intermediate Jewelry. 3 Units
Prerequisite(s): ART 74 or equivalent, or instructor permission.
Term Typically Offered: Fall, Spring

Continued study of the techniques and tools used in metal fabrication, such as raising, tool making, chasing and repousse, and scoring/bending process. Emphasis is on development and individual style. Fee course.
Note: May be taken twice for credit.

Fee course.

ART 175. Intermediate Metalsmithing. 3 Units
Prerequisite(s): Art 75.
Term Typically Offered: Fall, Spring

Continued exploration of techniques, tools, and methods used in fabrication of ferrous and non-ferrous metal such as cold fastening, repousage, forging, and finishing processes. Emphasis is on composition and imagery. Fee course.
Fee course.

ART 176. Advanced Jewelry. 3 Units
Prerequisite(s): ART 174.
Term Typically Offered: Fall, Spring

Focus on the development of personal style in metal fabrication and casting techniques. Students learn to build mechanical devices such as clasp systems that enhance the overall appearance of their work. Research involving historical periods in metal work.

ART 178A. Public Art Processes. 3 Units
Term Typically Offered: Fall only

Students will engage in the process of creating public art proposals. Along with community engagement the conception and design of a project will include historical, geographic and sociological research. Students will create professional presentations of their proposed project that consider all factors related to creating work in a public setting. Studio course engaging in model making, ideation, comprehensive investigation, collaboration, presentation and discussion. Field Trip(s) may be required. Fee course.
Note: may be taken twice for credit.

Fee course.
Field trip(s) may be required.

ART 178B. Public Art Studio. 3 Units
Term Typically Offered: Spring only

Following up on project proposals designed the previous term in ART 178A, students will engage in the process of creating public art works. The course will focus on the primary components of the project: budget, method or form, materials, dimension, transportation, engineering, permitting, installation and publicity. Students do not need to have taken 178A in order to benefit from and enroll in 178B. Field Trip(s) may be required. Fee course.
Note: May be taken twice for credit.

Fee course.
Field trip(s) may be required.

ART 179. Small Metals Studio. 3 Units
Prerequisite(s): ART 176.
Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 180. Figure Sculpture. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall only

Work from live models in clay and plaster. Construction of armatures and waste mold demonstrated. Fee course.
Note: May be taken for credit four times.

Fee course.

ART 182. Intermediate Sculpture. 3 Units
Prerequisite(s): ART 70 or ART 88 or equivalent.
Term Typically Offered: Fall, Spring

Intermediate explorations with traditional and non-traditional processes of sculpture, three-dimensional form and spatial relationships. Students will expect to explore concept based learning through visual problem solving while accumulating in depth techniques and skills in a variety of sculpture materials. Includes study of historical and contemporary examples of sculpture and other relevant forms of art.
Note: May be taken twice for credit. Fee Course

Fee course.

ART 183. Advanced Sculpture. 3 Units
Prerequisite(s): ART 180 or 182 or instructor permission.
Term Typically Offered: Fall, Spring

Advanced explorations and study in sculpture, three-dimensional media and imagery and conceptual based art. Students can explore sculpture, advanced three-dimensional design, mixed media, installation art, site specificity, performance art, public art or other. Study will be both assignment based or self-directed. Fee course.
Note: May be taken twice for credit.

Fee course.

ART 187. Installation and Performance Art. 3 Units
Prerequisite(s): ART 20A and either ART 70 or ART 88 or equivalent.
Term Typically Offered: Spring only – even years

Explores the practice, theory and history of making installation and performance art. Students will study contemporary artists of this genre while designing, modeling and creating installation projects. Performances are not mandatory. Students will exhibit their works in traditional campus galleries alternative spaces. Emphasizes individual investigation and discovery while remaining open to collaborative projects that may cross disciplines. Fee course.
Note: may be taken twice for credit.

Fee course.

ART 189. Sculpture Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed 9 units in a specialized area. Fee course.
Note: May be repeated as often as approved by advisor and Department chair.

Fee course.

ART 191. Film as an Art Form. 3 Units
Term Typically Offered: Fall, Spring

Wide range of theory and criticism of film, photography, and painting in the 20th century is presented from which the student may cultivate a coherent critical awareness. The development of realism in Western art, the photographic image, narrative in film, montage, and the development of cinematography will be included with special attention given to the films of D.W. Griffith, Sergei Eisenstein, Jean Renoir, Alfred Hitchcock, and Orsen Welles.

ART 192A. Senior Seminar in Studio Art. 3 Units
Prerequisite(s): Senior status (90 overall units), completion of 30 units of art studio courses, and (GWAR certification before Fall 09, or WPJ score of 70+ or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Culminating studio art course designed to deepen experiences in diverse visual arts. Emphasis placed on independent studio practice with additional development in verbal and written skills in a variety of art disciplines. Participation in BA candidate exhibition required in the second enrolled semester for completion of the course.
Note: Must be taken twice. Cannot be taken twice in the same semester.

ART 192B. Senior Seminar in Art History. 3 Units
Prerequisite(s): Senior status, completion of all lower-division major requirements, HIST 100, and GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Spring only

Focuses on the research, writing, and oral presentation of a 25-35 page thesis in the student's area of interest. Seminar readings, discussions, and weekly workshops support the thesis project and develop basic career skills. Explores how to employ traditional and new research technologies and develops writing skills. Career topics include how to locate appropriate jobs, professional schools, and graduate programs; how to write professional resumes, correspondence, including graduate school and grant applications.

ART 192C. Senior Seminar in Art Education. 3 Units
Prerequisite(s): Senior status, and ART 130, ART 133, ART 134, and ART 135.
Term Typically Offered: Fall only

Relates current art education theories to teaching practices in elementary and secondary classrooms, and museum/gallery settings. Teaching practices in a classroom or gallery/museum setting will connect to curriculum materials developed.

ART 193. Art Gallery Management. 3 Units
Term Typically Offered: Fall only

Designed for direct participation of students in the management of an art gallery, including installation, publicity, and budgeting.
Note: May be taken twice for credit.

ART 193B. Introduction to Curatorial Studies. 3 Units
Term Typically Offered: Spring only

This course provides the foundation needed for professionally managing and displaying objects held in art collections. Through readings, small group discussions, field trips, guest lectures, and the directed experience of creating an exhibition of artworks from the Sacramento State Art Department collection, students learn the basics of curatorial studies and art collection management. Field trip.
Field trip(s) may be required.

ART 194. BFA Senior Project. 3 Units
Prerequisite(s): Second semester Senior standing in BFA program with a minimum 63 units in the major.
Term Typically Offered: Fall, Spring

Under the mentorship of a faculty advisor, students develop a body of work to be exhibited in the BFA exhibition. Emphasis placed on engagement with research, content, and the process to produce professional quality work in preparation for graduate study and/or careers in the arts.

ART 195. Fieldwork. 1 - 3 Units
Term Typically Offered: Fall, Spring

Directed observation and work experience with public agencies. Field work is offered for the purpose of giving students orientation in occupational specialties. Supervision is provided by both the instructional staff of the University and the cooperating agencies. Each student is required to maintain a record of activities and assignments, and to prepare periodic reports. The student must make arrangements with a faculty member for a work program prior to admittance to the course.
Credit/No Credit

ART 196. Experimental Offerings in Art. 1 Unit
Term Typically Offered: Fall, Spring

Undergraduate seminar in art, to be scheduled as needed.

ART 197. Intermediate Electronic Art. 3 Units
Prerequisite(s): ART 97, or equivalent experience, such as PHOT 11, Introduction to Digital Imaging.
Term Typically Offered: Fall, Spring

Explores the creative potential of digital imaging and multimedia art making techniques. Teaching methods will include hands on demonstrations, lab workshops, creative projects, reading assignments, seminars, discussion and critiques. The development of technical fluency will be stressed, and the creative potential of digital media within the framework of contemporary art, design and culture will be emphasized. Fee course.
Note: Proficiency in MAC-OS recommended. May be taken for credit three times.

Fee course.

ART 198. Advanced Electronic Art. 3 Units
Prerequisite(s): ART 197, or equivalent experience, evidenced in portfolio.
Term Typically Offered: Fall only

Utilizes the creative potential of electronic media to create art projects, working within the conceptual framework of developments in contemporary culture using a range of available software programs. An experimental and exploratory approach to the digital medium in concept, process and execution of work is encouraged. Fee course.
Note: Proficiency in MAC-OS recommended. May be taken for credit three times.

Fee course.

ART 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who are competent to carry on individual work.
Note: Departmental petition required.

Credit/No Credit

ART 206. Art Theory and Criticism. 3 Units
Term Typically Offered: Fall only

Seminar discussions of essential readings in Western aesthetic philosophy and contemporary art theory and criticism. Stress is placed on the conceptualization of the student's own graduate production.
Note: Required for students in art graduate program; Graduate Writing Intensive (GWI) course.

ART 207. Graduate Studio and Critique. 3 Units
Term Typically Offered: Fall, Spring

Graduate Studio and Critique focuses on the development of students¿ individual studio practice, while bringing that practice into dialog with others. Class time is divided between group critiques and individual studio work time.

ART 208. Intensive Graduate Studio and Critique. 6 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission
Term Typically Offered: Fall, Spring

Intensive Graduate Studio and Critique focuses on the development of students¿ individual studio practice, while bringing that practice into dialog with others. Class time is divided between group critiques and individual studio work time. In ART 208, students increase the depth and focus of their work, as well as their engagement in critiques.
Note: May be taken twice for credit

ART 212. Contemporary Art. 3 Units
Prerequisite(s): Modern Art History: Art 1B or ART 109 or equivalent or instructor permission.
Term Typically Offered: Spring only

Beginning with international Pop art and Minimalism in the 1960s, surveys the history of contemporary art from the end of avant-garde modernism to the postmodernism and globalism of today. Lectures, discussions, readings and assignments, offer insights into the contexts, attitudes and ideas behind current art and visual culture.
Note: Students who earned a grade of B or higher in ART 112 can fulfill the requirements for ART 212 by taking a one-unit supplemental ART 299 to satisfy graduate level criteria.

ART 219. Directed Research in Art History. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair.

ART 220. Advanced Problems in Painting and Drawing. 3 Units
Prerequisite(s): ART 122B, graduate art student status, or instructor permission.
Term Typically Offered: Fall, Spring

Special problems in painting and drawing.
Note: May be taken twice for credit.

ART 222. Studio Critique Seminar. 3 Units
Term Typically Offered: Fall, Spring

Critique seminar taught by one or more instructors representing different creative experiences.
Note: Required for students in the art studio graduate program, every semester until the final review has been passed. Only 6 units may be applied toward the degree program. Open only to classified graduate students.

ART 229. Painting/Drawing Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 239. Directed Research in Art Education. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 249. Graphics/Printmaking Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 259. Ceramics Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 269. Photography Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 279. Crafts/Art Metal Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 283. Graduate Sculpture. 3 Units
Prerequisite(s): Graduate Art student status, or instructor permission.
Term Typically Offered: Fall, Spring

Special problems in sculpture, mixed media, installation art, site specific art, performance art, public art or other. Students will engage in self-directed projects while participating in sculpture studio forum and critiques.
Note: may be taken twice for credit

ART 289. Sculpture Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified graduate students only. Fee course.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

Fee course.

ART 297. New Media 1. **3 Units**
Term Typically Offered: Spring only

Students will work on self-directed new media projects with the supervision of the instructor. The work will focus on projects that are either entirely based on digital image and/or animation, or on works that also utilize other media or processes combined with digital image or animation, such as intermedia, mixed media and installation work. This course also includes reading assignments, critique and discussion.
Note: May be repeated twice for credit.

ART 298. New Media 2. **3 Units**
Term Typically Offered: Fall only

Students will work on self-directed video and new media with the supervision of the instructor. The work will focus on projects that are either entirely based in new media and video, or on works that also utilize other media or processes combined with video and/or interactive processes, such as intermedia, mixed media and installation work. The course also includes reading assignments, critique and discussion.
Note: May be taken twice for credit.

ART 299. Special Problems. **1 - 3 Units**
Prerequisite(s): Open only to graduate art students competent to carry on individual work. Admission requires approval of the faculty member who will direct the work and of the Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Only 6 units may be applied toward the degree program.

Credit/No Credit

ART 305. Art in the Public School. **3 Units**
Prerequisite(s): Enrollment in the art teaching credential program.
Term Typically Offered: Fall, Spring

Art teaching methods and programs for public school grades K-12. Must be taken during Phase I or II of student teaching.

ART 500. Culminating Experience. **3 Units**
Prerequisite(s): Advanced to candidacy and chair permission of student's project committee.
Term Typically Offered: Fall, Spring

Culminating exhibition of student work.

Art Education (Single Subject Pre-Credential Preparation)

Units required for the Subject Matter Program: 48

Program Description

Courses in Art Education provide students with the knowledge and tools necessary to thrive as teachers in both K-12 and community settings. The Art Education program includes instruction in artistic perception; creative expression; historical and cultural foundations in art; aesthetic valuing; connections, relationships, and applications in art; visual art and education theories; and visual culture art education.

Art majors wishing to pursue a Single Subject Teaching Credential in Art in the College of Education must contact the Art Department's Credential Coordinator to have their transcripts evaluated for courses required for admission to the credential program and to have their single subject competency assessed.

Teaching credential candidates must also complete the Professional Education Program in the College of Education and meet the California art subject matter standards. Students interested in teaching art in public schools in California should get information from the Teaching Credentials Office in Eureka Hall 401 or the College of Education's Web site at www.csus.edu/coe/academics/credentials/ (http://www.csus.edu/coe/academics/credentials/).

Minimum Grade Requirement

Courses applied toward the Subject Matter program must be completed with a grade of 'C' or higher.

Program Requirements

Code	Title	Units
Historical and Cultural Contexts (12 Units)		
ART 1A	Art, Religions, and Power before 1400	3
ART 1B	Art in the Western World: From Renaissance to Baroque	3
ART 1C	Global Modern and Contemporary Art	3
Select one of the following:		3
ART 3A	Traditional Asian Art	
ART 3B	Modern and Contemporary Asian Art	
ART 5	Art of the Americas	
ART 100	Origins of American Indian Art	
ART 110	US and Caribbean Art: Race and Representation	
ART 111	Latin American and Latino Art History	
ART 113B	Asian Art and Mythology	
ART 117A	Art of India and Southeast Asia	
ART 117B	Art of China and Japan	
ART 117C	Art of Korea	
Art Studio Foundation (21 Units)		
ART 20A	Beginning Drawing	3
ART 20B	Intermediate Drawing	3
ART 22	Beginning Painting	3
ART 97	Beginning Electronic Art	3
Select one of the following:		3
ART 70	Form, Space Vision	
ART 88	Beginning Sculpture	
Select one of the following:		3
ART 50	Beginning Ceramics	
ART 53	Beginning Hand-Built Ceramics	
Select one of the following:		3
ART 40D	Basic Printmaking: Relief	
ART 60	Two-Dimensional Composition	
ART 70	Form, Space Vision	
ART 74	Beginning Jewelry	
ART 75	Beginning Metalsmithing	
ART 86	Clay Sculpture	
ART 88	Beginning Sculpture	
PHOT 40	Basic Techniques of Photography	
Art Studio Depth (6 Units)		

Select two courses from Group 1, Group 2 or Group 3:		6
Group 1		
ART 120	Advanced Drawing	
ART 122A	Intermediate Painting (may be taken twice for credit)	
ART 122B	Advanced Painting (may be taken four times for credit)	
ART 123	Figure Drawing	
ART 124A	Intermediate Watercolor	
ART 124B	Advanced Watercolor	
ART 125A	Life Painting	
ART 125B	Life Studio	
ART 126	Painting and Drawing in the Field	
ART 127	Collage and Assemblage (may be taken twice for credit)	
ART 144	Digital Printmaking	
ART 145	Advanced Printmaking Studio	
Group 2		
ART 150	Advanced Ceramics	
ART 153	Hand-Built Ceramic Techniques	
ART 174	Intermediate Jewelry	
ART 175	Intermediate Metalsmithing	
ART 176	Advanced Jewelry	
ART 180	Figure Sculpture	
ART 182	Intermediate Sculpture (may be taken twice for credit)	
ART 183	Advanced Sculpture (may be taken twice for credit)	
ART 187	Installation and Performance Art (may be taken twice for credit)	
Group 3		
ART 142/ CSC 126	3D Computer Modeling	
ART 143/ CSC 127	3D Computer Animation	
ART 144	Digital Printmaking	
ART 147/ COMS 157	Video Art	
ART 197	Intermediate Electronic Art	
ART 198	Advanced Electronic Art	
Art Education (9 Units)		
ART 130	Theories in Art Education	3
ART 133	Art Education for Children	3
ART 135	Overview of Secondary Art Education	3
Total Units		48

Note: ART 305 (Art in the Public School) is the required learning methods course for students enrolled in the Professional Education Program in the College of Education.
The program is currently under review by the Commission on Teacher Credentialing and students are strongly encouraged to consult an advisor.

BA in Art (Art History)

Units required for Major: 48

Total units required for BA: 120

Program Description

The Department of Art at Sacramento State introduces students to the expressive world of the visual arts. A wide variety of approaches based on both Western and Non-Western cultures are integrated into courses that are oriented toward creativity, imagination, and critical thinking. Students are able to explore art through courses in art education, art history, ceramics, metalsmithing/jewelry, new media art, painting, print making, and interdisciplinary sculpture.

The Art History curriculum provides a range of courses in Western and non-Western art, criticism, and visual culture from pre-history to the present and from many perspectives, both formal and contextual. These courses produce visual literacy, multicultural awareness, art historical skills, and an understanding of art-making practices. Studio Art experiences develop the creative and artistic skills necessary for mastery of established styles and for exploration of new ones. They also reward students with an introduction to a lifetime appreciation of the arts. Courses in Art Education provide students with the knowledge and tools necessary to thrive as teachers in both K-12 and community settings. The Art Education program includes instruction in artistic perception; creative expression; historical and cultural foundations in art; aesthetic valuing; connections, relationships, and applications in art; visual art and education theories; and visual culture art education.

Courses, programs, and exhibitions sponsored by the Art Department serve to engage students in the visual arts within a liberal arts context and to promote appreciation of the fine arts in the general student population. Fieldwork experiences can be arranged with the Crocker Art Museum, Sacramento Metropolitan Arts Commission, and other public and private art institutions and galleries in the Capital region. Opportunities to study art and art history abroad are available through the Office of International Programs and Global Engagement at Sacramento State and the California State University International Program. University credit can be obtained for a semester to a year of study at college and international centers in Britain, Europe, Latin America, Asia, Africa, and Australia.

California State University, Sacramento is an accredited institutional member of the National Association of Schools of Art and Design (NASAD).

Minimum Grade Requirement

All lower division art history requirements and demonstrated writing proficiency as prescribed by California State University, Sacramento must be completed prior to enrollment in upper division courses. A minimum grade of “C” is required in all courses applied to the Art History concentration. Art History students are required to meet the Sacramento State Foreign Language Requirement by completing the second semester (1B) of a college-level foreign language course with a grade of C- or better (or equivalent foreign language study, as described in the current University catalog). Students who plan to pursue further graduate study in art history are encouraged to learn French, German, or another foreign language through the second semester intermediate level (2B).

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (18 Units)		
ART 1A	Art, Religions, and Power before 1400 [1]	3

ART 1B	Art in the Western World: From Renaissance to Baroque [1]	3
ART 1C	Global Modern and Contemporary Art	3
Select one of the following:		3
ART 3A	Traditional Asian Art	
ART 3B	Modern and Contemporary Asian Art	
ART 5	Art of the Americas	
ART 20A	Beginning Drawing [1]	3
Select one lower division course from Photography or Art Studio in a medium other than drawing.		3
Required Upper Division Core Courses (21 Units)		
HIST 100	Introduction to Historical Skills [2]	3
Select one from each of the following four groups plus two additional courses toward a specialization:		18
Group 1		
ART 103	Art of the Ancient Mediterranean	
ART 105	Medieval Art	
ART 106	Renaissance Art	
ART 107	Baroque and Rococo Art	
Group 2		
ART 113B	Asian Art and Mythology	
ART 117A	Art of India and Southeast Asia	
ART 117B	Art of China and Japan	
ART 117C	Art of Korea	
Group 3		
ART 100	Origins of American Indian Art	
ART 110	US and Caribbean Art: Race and Representation	
ART 111	Latin American and Latino Art History	
ART 118B/ HIST 184	California Architecture and Urban History	
Group 4		
ART/PHOT 101	Photography, Inception to Mid-Century	
ART 108	19th Century Art	
ART 109	Modern Art	
ART 112	Contemporary Art	
ART 118A	Modern Architecture	
PHOT 102	Photography, a Social History	
Upper Division Electives (3 Units)		
Select one elective within the Art Department - a regularly scheduled art history course, or any one of the following independent study and supervisory courses: [3]		3
ART 119	Directed Research in Art History [4]	
ART 195	Fieldwork [4]	
ART 199	Special Problems [4]	
Art History Seminar (3 Units)		
Select one of the following: [5]		3
ART 114	Topics in Early Modern Art	
ART 115	Topics in Asian Art	
ART 116	Topics in Modern and Contemporary Art	
ART 196	Experimental Offerings in Art [5]	
Senior Seminar (3 Units)		
ART 192B	Senior Seminar in Art History [7]	3
Total Units		48

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] This course should be taken in the second semester of the sophomore year or the first semester of the junior year for transfer students. Art History students are strongly advised to take 6 units of lower division Art History coursework and 6 units of lower division History coursework before taking HIST 100.

[3] With the approval of an Art History advisor

[4] Independent study and supervisory courses in the major are limited to one (no more than 3 units), must be approved by an Art History faculty advisor, and may be applied only to the elective category.

[5] With the approval of an Art History Seminar faculty advisor, students may satisfy the seminar requirement with a seminar in another liberal arts discipline.

[6] ART 196 only may be used when it is an art history seminar taken for 3 units.

[7] Culminating course for students with senior status after completion of all lower division requirements. Prerequisites: completion of two semesters of a foreign language (1B or equivalent), the University's Graduation Writing Assessment requirement, HIST 100, and the art history seminar (item D).

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6 Units)		
C1 - Arts [2]		0
C2 - Humanities		3
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

BA in Art (Art Studio)

Program scheduled for Discontinuation, please see the BFA in Studio Art (p. 128) for Program Requirements.

BA in Art (Studio Arts Methods)

Units required for Major: 48
Total units required for BA: 120

Program Description

The Department of Art at Sacramento State introduces students to the expressive world of the visual arts. A wide variety of approaches based on both Western and Non-Western cultures are integrated into courses that are oriented toward creativity, imagination, and critical thinking. Students are able to explore art through courses in art education, art history, ceramics, metalsmithing/jewelry, new media art, painting, print making, and interdisciplinary sculpture.

Studio Art experiences develop the creative and artistic skills necessary for mastery of established styles and for exploration of new ones. They also reward students with an introduction to a lifetime appreciation of the arts.

Courses, programs, and exhibitions sponsored by the Art Department serve to engage students in the visual arts within a liberal arts context and to promote appreciation of the fine arts in the general student population. Fieldwork experiences can be arranged with the Crocker Art Museum, Sacramento Metropolitan Arts Commission, and other public and private art institutions and galleries in the Capital region. Opportunities to study art and art history abroad are available through the Office of International Programs and Global Engagement at Sacramento State and the California State University International Program. University credit can be obtained for a semester to a year of study at college and international centers in Britain, Europe, Latin America, Asia, Africa, and Australia.

California State University, Sacramento is an accredited institutional member of the National Association of Schools of Art and Design (NASAD).

Minimum Grade Requirements

A minimum grade of 'C' is required in all courses applied to the Studio Art Methods concentration.

Notes:

- Whenever possible, classes should be selected in consultation with a faculty advisor.
- It is recommended that students complete a minimum of 75% of the lower division requirements (18 units) before enrolling in upper division courses while recognizing and following prerequisite requirements.
- Lower division prerequisites for some courses may be waived on the advisement of an Art instructor and a portfolio review.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (24 Units)		
ART 1C	Global Modern and Contemporary Art [1]	3
ART 20A	Beginning Drawing [1]	3
ART 20B	Intermediate Drawing [1]	3
ART 97	Beginning Electronic Art	3
Select one of the following:		3
ART 22	Beginning Painting	
ART 40	Beginning Printmaking	
PHOT 40	Basic Techniques of Photography	
Select one of the following:		3
ART 53	Beginning Hand-Built Ceramics	
ART 75	Beginning Metalsmithing	
ART 88	Beginning Sculpture	
Select one of the following: [2]		3
ART 50	Beginning Ceramics	
ART 53	Beginning Hand-Built Ceramics	
ART 70	Form, Space Vision	
ART 74	Beginning Jewelry	
ART 75	Beginning Metalsmithing	
ART 86	Clay Sculpture	

ART 88	Beginning Sculpture	
Select one of the following:		3
ART 1A	Art, Religions, and Power before 1400	
ART 1B	Art in the Western World: From Renaissance to Baroque	
ART 3A	Traditional Asian Art	
Required Upper Division Core Courses (18 Units)		
Select four courses from one of the following studio course groups and two courses from any studio course group: [3]		18
Drawing Group		
ART 120	Advanced Drawing	
ART 123	Figure Drawing	
ART 125B	Life Studio	
ART 127	Collage and Assemblage (may be taken twice for credit)	
ART 129	Painting/Drawing Studio	
ART 199	Special Problems	
Painting Group		
ART 122A	Intermediate Painting (may be taken twice for credit)	
ART 122B	Advanced Painting (may be taken four times for credit)	
ART 124A	Intermediate Watercolor	
ART 124B	Advanced Watercolor	
ART 125A	Life Painting	
ART 125B	Life Studio	
ART 126	Painting and Drawing in the Field	
ART 127	Collage and Assemblage (may be taken twice for credit)	
ART 129	Painting/Drawing Studio	
ART 199	Special Problems	
Printmaking Group		
ART 127	Collage and Assemblage (may be taken twice for credit)	
ART 140	Intermediate Printmaking	
ART 144	Digital Printmaking	
ART 145	Advanced Printmaking Studio	
ART 149	Graphics/Printmaking Studio	
ART 199	Special Problems	
Photography Group		
ART/PHOT 161	Photography in the Field	
ART/PHOT 162	Alternative Photographic Processes	
ART/PHOT 163	Pinhole Photography	
ART 169	Photography Studio	
ART 199	Special Problems	
Small Metals and Jewelry Group		
ART 174	Intermediate Jewelry	
ART 175	Intermediate Metalsmithing	
ART 176	Advanced Jewelry	
ART 179	Small Metals Studio	
ART 199	Special Problems	
Interdisciplinary Sculpture Group		
ART 127	Collage and Assemblage (may be taken twice for credit)	
ART 142/ CSC 126	3D Computer Modeling	
ART 180	Figure Sculpture	
ART 182	Intermediate Sculpture (may be taken twice for credit)	
ART 183	Advanced Sculpture (may be taken twice for credit)	
ART 187	Installation and Performance Art (may be taken twice for credit)	
ART 189	Sculpture Studio	
ART 199	Special Problems	
Ceramics Group		
ART 150	Advanced Ceramics	
ART 153	Hand-Built Ceramic Techniques	
ART 159	Ceramics Studio	
ART 180	Figure Sculpture	
ART 199	Special Problems	
New Media Group		
ART 142/ CSC 126	3D Computer Modeling	
ART 143/ CSC 127	3D Computer Animation	
ART 144	Digital Printmaking	
ART 146	Creative Coding	
ART 147/ COMS 157	Video Art	
ART/PHOT 162	Alternative Photographic Processes	
ART 187	Installation and Performance Art (may be taken twice for credit)	
ART 197	Intermediate Electronic Art	
ART 198	Advanced Electronic Art	
ART 199	Special Problems	
Art History Courses (3 Units)		
Select one of the following:		3
ART 100	Origins of American Indian Art	
ART/PHOT 101	Photography, Inception to Mid-Century	
ART 103	Art of the Ancient Mediterranean	
ART 105	Medieval Art	
ART 106	Renaissance Art	
ART 107	Baroque and Rococo Art	
ART 108	19th Century Art	
ART 109	Modern Art	
ART 110	US and Caribbean Art: Race and Representation	
ART 111	Latin American and Latino Art History	
ART 112	Contemporary Art	
ART 113B	Asian Art and Mythology	
ART 115	Topics in Asian Art	
ART 116	Topics in Modern and Contemporary Art	
ART 117A	Art of India and Southeast Asia	
ART 117B	Art of China and Japan	

ART 117C	Art of Korea	
ART 118A	Modern Architecture	
ART 118B/ HIST 184	California Architecture and Urban History	
ART 191	Film as an Art Form	
Upper Division Elective Requirement (3 Units)		
Select one additional course from one of the following categories:		3
Studio Group [4]		
Art History Group		
Special Topics in Art Group		
Special Topics in Art Group		
ART 128	Art and the Artist in the Marketplace	
ART 130	Theories in Art Education	
ART 133	Art Education for Children	
ART 134	Interdisciplinary Art	
ART 135	Overview of Secondary Art Education	
ART 148	Barrio Art for Ethnic Groups	
ART 193	Art Gallery Management	
ART 195	Fieldwork	
ART 196	Experimental Offerings in Art	
Total Units		48

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Courses in the lower division cannot be repeated for credit towards the major.
3. All courses must be chosen with advisor approval. See the current course catalog for courses that may be taken more than once for credit.
4. Excluding courses from the studio course group selected above; also excluding supervisory courses in studio disciplines.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6 Units)		
C1 - Arts [2]		0
C2 - Humanities		3
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

BFA in Studio Art

Units required for Major: 75
Total units required for BFA: 120

Program Description

The Bachelor of Fine Arts in Art Studio is a four-year program that prepares students for successful careers as artists. It is the professional degree for an artist and provides the foundation for the master's program in studio art. While the B.F.A. program provides students with a broad overview of the fine art areas of ceramics, drawing, painting, printmaking, sculpture, interdisciplinary and new media art, it is designed to develop in-depth skills in one of these areas of the visual arts. The studio curriculum in the program emphasizes technical mastery, individuality, creative

experimentation and prepares students for a variety of post-graduate pursuits. The curriculum also provides a thorough grounding in visual art thinking, contemporary art history and critical theory. The degree is designed for undergraduate students who want to combine intensive and innovative studio art practice with an outstanding education in the liberal arts.

Minimum Grade Requirements

A minimum grade of 'C' is required in all lower division courses and upper division non-studio courses applied to the Studio Art program.

A minimum grade of 'B' is required in all upper division studio courses.

Additional Requirements

Participation in an exhibition of BFA candidates is required for completion of the degree.

Note: Whenever possible, classes should be selected in consultation with a faculty advisor. It is recommended that students complete all of the lower division requirements before enrolling in upper division courses. Prerequisites for some courses may be waived on the advisement of an Art instructor and a portfolio review. ART 192A Senior Seminar in Studio Art (3 units) is a required course, taken in the final semester of the Senior year and concurrently with ART 194, BFA Senior Project.

Program Requirements

Code	Title	Units
Lower Division Core Requirements (33 Units)		
ART 1C	Global Modern and Contemporary Art [1]	3
ART 20A	Beginning Drawing [1]	3
ART 20B	Intermediate Drawing	3
ART 60	Two-Dimensional Composition	3
ART 70	Form, Space Vision [1]	3
ART 97	Beginning Electronic Art	3
Choose one of the following:		3
ART 1A	Art, Religions, and Power before 1400 [1]	
ART 1B	Art in the Western World: From Renaissance to Baroque [1]	
Choose one of the following:		3
ART 2	History of Islamic Art [1]	
ART 3A	Traditional Asian Art [1]	
ART 3B	Modern and Contemporary Asian Art [1]	
ART 5	Art of the Americas [1]	
2-D Studio Group		
Choose one of the following:		3
ART 22	Beginning Painting	
ART 24	Beginning Watercolor	
ART 40	Beginning Printmaking	
PHOT 40	Basic Techniques of Photography	
3-D Studio Group		
Choose one of the following:		3
ART 50	Beginning Ceramics	
ART 53	Beginning Hand-Built Ceramics	
ART 88	Beginning Sculpture	
Lower Division Studio Elective Group [2]		
Choose one of the following:		3
ART 22	Beginning Painting	
ART 24	Beginning Watercolor	
ART 40	Beginning Printmaking	
ART 50	Beginning Ceramics	
ART 53	Beginning Hand-Built Ceramics	
ART 88	Beginning Sculpture [1]	
PHOT 40	Basic Techniques of Photography	
Upper Division Core Requirements (42 Units)		
ART 121 Advanced Painting		3
ART 192A	Senior Seminar in Studio Art	3
ART 194 BFA Seminar		3
ART 196 Experimental Offerings in Art		3
Studio Course Group [3]		
Choose five from the following:		15
Drawing Group		
ART 120	Advanced Drawing	
ART 123	Figure Drawing	
ART 125B	Life Studio	
ART 127	Collage and Assemblage	
ART 129	Painting/Drawing Studio	
ART 199	Special Problems [4]	
Painting Group		
ART 122A	Intermediate Painting	
ART 122B	Advanced Painting	
ART 124A	Intermediate Watercolor	
ART 124B	Advanced Watercolor	
ART 125A	Life Painting	
ART 125B	Life Studio	
ART 126	Painting and Drawing in the Field	
ART 127	Collage and Assemblage	
ART 129	Painting/Drawing Studio	
ART 199	Special Problems [4]	
Printmaking Group		
ART 127	Collage and Assemblage	
ART 140	Intermediate Printmaking	
ART 144	Digital Printmaking	
ART 145	Advanced Printmaking Studio	
ART 149	Graphics/Printmaking Studio	
ART 199	Special Problems [4]	
Sculpture Group		
ART 127	Collage and Assemblage	
ART 142	3D Computer Modeling	
ART 180	Figure Sculpture	
ART 182	Intermediate Sculpture	
ART 183	Advanced Sculpture	
ART 187	Installation and Performance Art	
ART 189	Sculpture Studio	
ART 199	Special Problems [4]	
Ceramics Group		
ART 150	Advanced Ceramics	
ART 153	Hand-Built Ceramic Techniques	
ART 159	Ceramics Studio	

ART 180	Figure Sculpture	
ART 199	Special Problems [4]	
New Media Group		
ART 142	3D Computer Modeling	
ART 143	3D Computer Animation	
ART 144	Digital Printmaking	
ART 147	Video Art	
ART 162	Alternative Photographic Processes	
ART 187	Installation and Performance Art	
ART 197	Intermediate Electronic Art	
ART 198	Advanced Electronic Art	
ART 199	Special Problems [4]	
Interdisciplinary/Integrated Media (or Inter-media) Group		
With prior approval from two advisors, students may develop their own group		
Studio Elective Requirement		
Select three courses from any upper division or lower division studio group or any of the following:		9
ART 128	Art and the Artist in the Marketplace	
ART 130	Theories in Art Education	
ART 133	Art Education for Children	
ART 134	Interdisciplinary Art	
ART 135	Overview of Secondary Art Education	
ART 148	Barrio Art for Ethnic Groups	
ART 193	Art Gallery Management	
ART 195	Fieldwork	
Art History Requirement		
Select two upper division art history courses from the following:		6
ART 100	Origins of American Indian Art	
ART 101	Photography, Inception to Mid-Century	
ART 103	Art of the Ancient Mediterranean	
ART 105	Medieval Art	
ART 106	Renaissance Art	
ART 107	Baroque and Rococo Art	
ART 108	19th Century Art	
ART 109	Modern Art	
ART 110	US and Caribbean Art: Race and Representation	
ART 111	Latin American and Latino Art History [1]	
ART 112	Contemporary Art	
ART 113B	Asian Art and Mythology	
ART 115	Topics in Asian Art	
ART 116	Topics in Modern and Contemporary Art	
ART 117A	Art of India and Southeast Asia [1]	
ART 117B	Art of China and Japan [1]	
ART 118A	Modern Architecture	
ART 118B	California Architecture and Urban History	
ART 191	Film as an Art Form	
Total Units		75

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Selected course may not satisfy multiple major requirements. Courses in lower division cannot be repeated for credit towards the major.

[3] All courses must be chosen with advisor approval. Course repeats will be allowed with advisor approval when in compliance with the University Repeat Policy. See course catalog for courses that may be taken more than once for credit.
Note: Students must receive a 'B' or better in all upper division courses to continue in the program.

[4] Three units of ART 199 is required in order to meet the minimum required units for the Studio Course Group.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (3-6 Units)		
C1 - Arts [2]		0
C2 - Humanities		3
C1/C2 - Area Course C [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [2,3]		0 - 3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		40-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Upper-division Area C requirement met with ART 111, ART 117A, or ART 117B

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6-9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [3]		0 - 3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)
3. Department recommends ART Elective that meets the WI Graduation Requirement; see Program Requirements table above.
Note: ART courses that meet the WI Graduation Requirement are displayed with a pencil icon.

MA in Art

Total units required for the MA: 30

Program Description

The Master of Arts program is designed to produce graduates with professional competence in studio disciplines. While acquiring those abilities, the student is also expected to develop skills used in the criticism and analysis of the visual arts. The Master of Arts degree at Sacramento State may serve as preparation for admission into a Master of Fine Arts (MFA) program at another institution.

The studio curriculum encourages integration of professional practice with historical and theoretical studies. The progression of classes facilitates the transition from student to independent artist through studies in ceramics, drawing, jewelry, metalsmithing, new media, painting, photography, printmaking, and sculpture. Special emphasis is placed on the development of individuality, depth, and professional competence in both technique and concepts.

Admission Requirements

Admission as a classified graduate student in art requires:

- a BA in Art or its equivalent, including 12 units in art history;
- a minimum 2.5 GPA in the last 60 units attempted;
- approval by Studio Art faculty review of other submitted materials (see Admission Procedures below); and
- English language proficiency: International students must pass the TOEFL examination. Advancement to candidacy requires passing English proficiency requirements. See below.

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified status. Any deficiencies will be noted on a written response to the student's admission application.

Admission Procedures

Applicants must complete a university application and a separate departmental application by the posted application deadline dates for the term applying.

- an online application for admission; and
- official transcripts from all colleges and universities attended, other than *Sacramento State*. In addition, all materials listed below must be submitted to the Art Department by the posted deadline;
- the Art Department application form;
- official transcripts of all college work other than Sacramento State; and
- twenty slides of the applicant's recent artwork in a carrousel tray (a description of each slide, listing size, medium, and date of composition, must be included).

For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies (http://www.csus.edu/gradstudies/).

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of 200-level courses in the graduate program with a minimum cumulative 3.0 GPA;
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver; and
- secured approval from the studio art faculty, based on a formal presentation of the student's work.

Advancement to Candidacy forms are available on the Office of Graduate Studies Web site csus.edu/gradstudies/forms (http://www.csus.edu/gradstudies/forms/). The student fills out the form after planning a degree program in consultation with his/her Art Department advisor. The completed form is then returned to the Office of Graduate Studies for approval.

Final Review

During the semester when the student expects to complete 30 units, the student should consult with the Graduate Coordinator and the student's advisor in order to determine the details (such as the number of pieces and manner of presentation) of the final review, which is a culminating exhibition of student work. (Final reviews may be attempted only twice.)

Program Requirements

Code	Title	Units
Basic Core (9 Units)		**9**
ART 206	Art Theory and Criticism	3
ART 212	Contemporary Art	3
ART 222	Studio Critique Seminar [1]	3
Studio Electives (15 Units)		
Select 15 units from the following, at least 6 units must be 200-level: [2]		15
ART 120	Advanced Drawing	
ART 122A	Intermediate Painting (may be taken twice for credit)	
ART 122B	Advanced Painting (may be taken four times for credit)	
ART 123	Figure Drawing	
ART 124A	Intermediate Watercolor	
ART 124B	Advanced Watercolor	
ART 125A	Life Painting	
ART 125B	Life Studio	
ART 126	Painting and Drawing in the Field	
ART 127	Collage and Assemblage (may be taken twice for credit)	
ART 141	Advanced Silkscreen	
ART 142/ CSC 126	3D Computer Modeling	
ART 143/ CSC 127	3D Computer Animation	
ART 144	Digital Printmaking	
ART 145	Advanced Printmaking Studio	
ART 147/ COMS 157	Video Art	
ART 150	Advanced Ceramics	
ART 153	Hand-Built Ceramic Techniques	
ART/PHOT 161	Photography in the Field	
ART/PHOT 162	Alternative Photographic Processes	
ART 180	Figure Sculpture	
ART 183	Advanced Sculpture (may be taken twice for credit)	
ART 187	Installation and Performance Art (may be taken twice for credit)	
ART 197	Intermediate Electronic Art	
ART 198	Advanced Electronic Art	
ART 220	Advanced Problems in Painting and Drawing	
ART 229	Painting/Drawing Studio [3]	
ART 249	Graphics/Printmaking Studio [3]	
ART 259	Ceramics Studio [3]	
ART 269	Photography Studio [3]	
ART 279	Crafts/Art Metal Studio [3]	
ART 283	Graduate Sculpture [3]	
ART 289	Sculpture Studio [3]	
ART 297	New Media 1	
ART 298	New Media 2	
ART 299	Special Problems [4]	
Culminating Requirement (3 Units)		
ART 500	Culminating Experience	3
Total Units		30

1. ART 222 is a 3 unit course which must be taken each semester until final reviews are passed. Only 6 units of credit count toward graduation.
2. ART 299 does not count towards the 6-unit requirement.
3. Only 6 units of each studio course
4. Open only to graduate art students competent to carry on individual work; admission requires approval of the faculty member who will direct the work and of the Department chair via signed petition form

Minor in Art Education

Units required for Minor: 21

Program Description

The Department of Art at Sacramento State introduces students to the expressive world of the visual arts. A wide variety of approaches based on both Western and Non-Western cultures are integrated into courses that are oriented toward creativity, imagination, and critical thinking. Students are able to explore art through courses in art education, art history, ceramics, metalsmithing/jewelry, new media art, painting, print making, and interdisciplinary sculpture.

Minimum Grade Requirement

A grade of 'C' or better is required for all courses applied to the Minor in Art Education.

Program Requirements

Units required for Minor: 21, including 9 lower division units in Art Studio, 3 lower division units in Art History, and 9 units of Art Education selected with the approval of the Art Education Credential Advisor.

Minor in Art History

Units required for Minor: 21, all of which must be taken in Art History

Program Description

The Department of Art at Sacramento State introduces students to the expressive world of the visual arts. A wide variety of approaches based on both Western and Non-Western cultures are integrated into courses that are oriented toward creativity, imagination, and critical thinking. Students are able to explore art through courses in art education, art history, ceramics, metalsmithing/jewelry, new media art, painting, print making, and interdisciplinary sculpture.

Minimum Grade Requirement

A grade of 'C' or better is required for all courses applied to the Minor in Art History.

Note: Students are strongly encouraged to select the four lower division courses and three upper division courses in consultation with an Art History faculty advisor.

Program Requirements

Code	Title	Units
Select four of the following lower division courses:		12
ART 1A	Art, Religions, and Power before 1400	
ART 1B	Art in the Western World: From Renaissance to Baroque	
ART 1C	Global Modern and Contemporary Art	
ART 3A	Traditional Asian Art	
or ART 3B	Modern and Contemporary Asian Art	
ART 5	Art of the Americas	
Select nine units of upper division courses in Art History		9
Total Units		21

Minor in Art Studio

Units required for Minor: 21

Program Description

The Department of Art at Sacramento State introduces students to the expressive world of the visual arts. A wide variety of approaches based on both Western and Non-Western cultures are integrated into courses that are oriented toward creativity, imagination, and critical thinking. Students are able to explore art through courses in art education, art history, ceramics, metalsmithing/jewelry, new media art, painting, print making, and interdisciplinary sculpture.

Minimum Grade Requirement

A grade of 'C' or better is required for all courses applied to the Minor in Art Studio.

Program Requirements

Code	Title	Units
Select two of the following:		6
ART 1A	Art, Religions, and Power before 1400	
ART 1B	Art in the Western World: From Renaissance to Baroque	
ART 3A	Traditional Asian Art	
ART 3B	Modern and Contemporary Asian Art	
ART 5	Art of the Americas	
ART 7	Introduction to Art and Visual Culture	
Select one of the following:		3
ART 20A	Beginning Drawing	
ART 22	Beginning Painting	
ART 24	Beginning Watercolor	
ART 40B	Basic Printmaking: Etching	
ART 40D	Basic Printmaking: Relief	
ART 40E	Basic Printmaking: Silkscreen	
ART 97	Beginning Electronic Art	
Select one of the following:		3
ART 50	Beginning Ceramics	
ART 53	Beginning Hand-Built Ceramics	
ART 70	Form, Space Vision	
ART 74	Beginning Jewelry	
ART 75	Beginning Metalsmithing	
ART 86	Clay Sculpture	
ART 88	Beginning Sculpture	
Select nine units of upper division courses in studio art [1]		9
Total Units		21

[1] Must be selected in consultation with a faculty advisor.

BA in Arts and Letters

Units required for Major: 36

Advisors:

Christina Bellon, Philosophy
Brad Nystrom, Humanities and Religious Studies
Aaron Cohen, History

Eligibility Requirements

This multidisciplinary major is designed for students who have stopped-out in good standing from the pursuit of any major at Sacramento State.

At the time of application, students must have met the following requirements:

1. Must not have been enrolled at the university for a minimum of one year and have left in good academic standing.
2. Completed at least 84 units of coursework (may be upper or lower division units).
3. Completed all lower division General Education and Graduation Requirements. A condition of admission to the program is that students have completed all GE Area B requirements. If the GE Area B and other lower division GE/GR requirements are not completed at the time of application, they must be completed prior to beginning the program.
4. Have a minimum cumulative GPA not lower than 2.0.

Program Requirements

Code	Title	Units
Required Upper Division Core Courses (12 Units)		
ALS 101	Texts Over Time	3
ALS 102	Individual, Community, and Citizenship	3
ALS 103	Creativity, Meaning, and Criticism	3
ALS 104	Happiness, Well-Being and the Good Life	3
Select an additional 24 units from the following: (24 Units) [1]		
Language - Communication and Expression		*6*
COMS 8	Interpersonal Communication Skills	
COMS 100B	Rhetoric and Social Influence	
COMS 116	Intercultural Communication	
ENGL 110B	History of the English Language	
HIST 166	Popular Culture [2]	
HRS 161	Multicultural America [2]	
SPAN 1A	Elementary Spanish	
or SPAN 1B	Elementary Spanish	
Literature - Texts, Ideas and Ideals		*6*
COMS 55	Media Communication and Society	
ENGL 140		
ENGL 180 Series Course		

FREN 110	Survey of French Literature	
HIST 4	Survey of Early Western Civilization [2]	
HIST 50	World Civilizations, Beginnings-1600 [2]	
HRS 10	Arts and Ideas of the West: Ancient to Medieval [2]	
HRS 70	Arts and Ideas of Asia: Ancient to Medieval [2]	
MUSC 10A	Survey of Music Literature I [2]	
THEA 2	History of the Theatre: Ancient to Renaissance [2]	
Arts and Music - The Creative Process		*6*
ART 7	Introduction to Art and Visual Culture [2]	
ART 70	Form, Space Vision [2]	
ENGL 30A	Introduction to Creative Writing	
GPHD 10	Introduction to Digital Design	
HRS 180	The Film [2]	
MUSC 9	Music In World Cultures [2]	
MUSC 18	Music Appreciation [2]	
PHIL 136	Philosophy Of Art [2]	
DNCE 131	Dance Cultures Of America [2]	
THEA 9	Appreciation Of Acting [2]	
THEA 115A	Multicultural Puppetry [2]	
Philosophy - Meaning and Critique		*6*
COMS 153	Journalism Law and Ethics	
PHIL 112	History Of Ethics [2]	
PHIL 117	Existentialism [2]	
PHIL 131	Philosophy Of Religion [2]	
COMS 2	Argumentation [2]	
HIST 15H	Major Problems in U.S. History [2]	
JOUR 50	Media Literacy and Critical Thinking [2]	
PHIL 4	Critical Thinking [2]	
PHIL 60	Deductive Logic I [2]	
HRS 105	Approaches to the Humanities [2]	
HRS 140		
Total Units		36

1 At least 12 additional units must be upper division for a total of at least 24 upper division units.

2 Course also satisfies General Education (GE)/Graduation Requirement.
NOTE: Students will work closely with the program advisors to ensure satisfactory completion of all University wide General Education and Graduation Requirements. Where possible, these can be overlapped with courses taken to satisfy the Required Upper Division core courses and Literature -Texts, Ideas and Ideals courses.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]		0
Area C: Arts and Humanities (0-3 Units)		
C1 - Arts [2]		0
C2 - Humanities [2]		0
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area D: The Individual and Society (3 Units)		
Area D Course [2]		0
Area D Course [2]		0
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development		
Area E Course [2]		0
Total Units		3-6

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Completion of all lower division General Education and Graduation Requirements is a condition of admission to the program.

3 Department recommends Electives that meet Area C Requirements; see Program Requirements table above.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		3
Foreign Language Proficiency Requirement [3]		6

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Department recommends Electives that meet the WI Graduation Requirement and the Race and Ethnicity Requirement; see Program Requirements table above.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Communication Studies

College of Arts and Letters

Program Description

Communication Studies is a broad-based discipline concerned with the exchange of messages in interpersonal and mediated situations and with the impact of such exchanges on society. Courses focus on understanding the communication process and developing skills to communicate effectively. The Department offers a wide range of courses in interpersonal, group, and organizational communication, rhetorical theory and criticism, public relations, mass communication and research methodologies.

The Sacramento State Journalism program provides both a general academic experience and professional preparation. Sacramento's program emphasizes writing, editing, writing for interactive media, and other courses necessary to prepare students for success in media-related jobs; it also includes courses that critically examine media as an institution.

The Film Program offers interdisciplinary coursework in the areas of film production, history, theory, criticism, and writing. The Film major aims at developing a deeper understanding of the art and practice of film, its complex components, and the artists whose vision have inspired generations of filmmakers. All students are required to take a common core that provides a foundation for film criticism and production. After completing the core, students select either the film studies or film production track. Students are supervised by the Film Coordinator.

Degree Programs

Communication Studies (p. 136)

Journalism (p. 155)

Film Studies (p. 151)

Special Features

- Communication Studies faculty possess professional expertise and academic excellence. Faculty maintain a high level of scholarly publication, creative activity, consulting, and outstanding teaching.
- The Sacramento State Debate Program is highly ranked nationwide with opportunities for both experienced and beginning debaters.
- The Department's Internship Program serves over 100 students each semester with internships in government agencies, private industry, TV stations, and public service organizations.
- The Department sponsors Epsilon Phi, a chapter of the National Communication honors society Lambda Pi Eta. Students eligible for membership participate in a variety of activities and are recognized at the university's graduation ceremony.
- The Department also sponsors PRSA, our student chapter of the Public Relations Student Society of America.

Career Possibilities

Community Relations Director · Organizational Trainer · Organizational Newsletter Editor · Public Information Specialist · Media Technician · Organizational Consultant · Organizational Trainer and Developer · Personnel Staff · Public Service Agency Staff · Corporate Media Director · Communication Consultant · Public Relations Professional · Video Editor · Video Producer or Director · Health Educator · Fund Raiser · Media Sales and Promotion Staff · Multimedia Project Manager · Community College Instructor · Lobbyist · Speech Writer · Minister · Lawyer · Politician · Consumer Market Researcher · Staff Analyst · Focus Group Leader · Political Campaign Staff · Public Affairs Director · Advertising Account Executive

Reporter · Editor · Columnist · Editorial Writer · Magazine Writer · Speech Writer · Correspondent · Public Affairs Manager · Legislative Assistant · Press Relations Officer · Public Information Specialist · Technical Writer/Editor · Broadcast Journalist · News Director · Disc Jockey · News Producer · Online Journalist

Videographer · Cinematographer · Production Coordinator · Production Assistant · Lighting Designer · Gaffer · Grip · Film/Video Director · Production Sound Mixer · Sound Editor · Screenwriter · Script Supervisor · Video Editor · Effects Editor · Independent Filmmaker · Film Critic

Contact Information

Gerri Smith, Department Chair
Katrina Roose, Administrative Support Coordinator II
Mendocino Hall 5014
(916) 278-6688
Department of Communication Studies Website (http://www.asn.csus.edu/coms/)

Faculty

AGUILAR, KIMBERLY

BONILLA, DIEGO

CLEMENTSON, DAVID

DUGAN, MOLLY A.

FOSS-SNOWDEN, MICHELE S.

GALE, ELAINE E.

HOWARD, TIMOTHY L.

IRWIN, JACQUELINE 'Jaccie'

JANOS, DAN

KASIC, KATHY

LUDWIG, MARK D.

MALVINI REDDEN, SHAWNA

MILLER, CHRISTINE

NEWSOME, CHEVELLE A.

OMORI, KIKUKO

REESE, PHILLIP

SMITH, GERRI

STARK, JENNY

STITT, CARMEN

STONER, ANDREW

TUDOR, KRISTEN A.

VanAIRSDALE, STU

WILLIAMS, MARK A.E.

ZUCKERMAN, S. DAVID

Communication Studies

Department of Communication Studies

Program Description

Communication Studies is a broad-based discipline concerned with the exchange of messages in interpersonal and mediated situations and with the impact of such exchanges on society. Courses focus on understanding the communication process and developing skills to communicate effectively. The Department offers a wide range of courses in interpersonal, group, and organizational communication, rhetorical theory and criticism, public relations, mass communication and research methodologies.

Degree Programs

BA in Communication Studies (General Communication): (p. 146)

- For students who focus on International and Intercultural; Interpersonal Communication; Mass Communication; New Media; Organizational Communication; Rhetoric and Social Influence or Small Group Communication.

BA in Communication Studies (Public Relations) (p. 136)

- For students who wish to prepare for a professional career in public relations.

Minor in Communication (p. 150)

Minor in Digital Communication and Information (p. 150)

MA in Communication Studies (p. 149)

Special Features

- Communication Studies faculty possess professional expertise and academic excellence. Faculty maintain a high level of scholarly publication, creative activity, consulting, and outstanding teaching.
- The Sacramento State Debate Program is highly ranked nationwide with opportunities for both experienced and beginning debaters.
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Contact Information

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STARK, JENNY

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STONER, ANDREW

TUDOR, KRISTEN A.

VanAIRSDALE, STU

WILLIAMS, MARK A.E.

ZUCKERMAN, S. DAVID

COMS 2. Argumentation. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Practice in argumentation, critical evaluation, evidence, and reasoning. Basic principles are applied in a variety of formal and informal advocacy situations. Concepts of argument structure and context are discussed and applied.
Note: Majors must complete with a grade of 'C-' or better.

COMS 4. Introduction to Public Speaking. 3 Units
General Education Area/Graduation Requirement: Oral Communication (A1)
Term Typically Offered: Fall, Spring

Theory and technique of public speaking. Emphasis on organizing, supporting, and clearly stating ideas. Practice in informative and persuasive speaking.

COMS 4H. Honors Public Speaking. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Oral Communication (A1)
Term Typically Offered: Fall, Spring

Provides both theoretical and practical training in the art of public discourse. Students learn both to recognize and to demonstrate the strategic processes of organizing and delivering speeches, especially within the context of global citizenship issues. Students are also introduced to the basic idea of forming reasonable challenges to speech in the public square.

COMS 5. The Communication Experience. 3 Units
General Education Area/Graduation Requirement: Oral Communication (A1)
Term Typically Offered: Fall, Spring

Basic skills and introductory concepts necessary for effective communication in a variety of settings. Special emphasis on practical experiences within groups, facilitation of interpersonal relationships, and methods of conflict resolution.
Note: Not recommended for COMS majors in General, Organizational or Public Relations concentrations.

COMS 8. Interpersonal Communication Skills. 3 Units
Term Typically Offered: Fall, Spring

Basic skills and introductory concepts for examining and altering interpersonal communication. In addition to lectures and discussions, students engage in structured interpersonal exercises and simulations to practice interpersonal communication skills such as listening, paraphrasing, describing feelings and intentions, and giving and receiving criticism.
Note: Majors must complete with a grade 'C-' or better.

COMS 20A. Audio Production. 2 Units
Corequisite(s): COMS 20B.
Term Typically Offered: Fall, Spring

Introduction to the theory and practice of audio production in radio, television, film and recording applications.
Cross listed: FILM 20A.

COMS 20B. Audio Production Laboratory. 1 Unit
Corequisite(s): COMS 20A.
Term Typically Offered: Fall, Spring

Experience in audio console operation, microphone selection and use, and audio recording in radio, television, film and recording applications.
Cross listed: FILM 20B.

COMS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Helps students to develop and exercise fundamental academic success strategies and to improve their basic learning skills. Students interact with fellow students and the seminar leader to build a community of academic and personal support.

COMS 26. Introduction to Capturing and Editing Digital Media. 3 Units
Term Typically Offered: Fall, Spring

Developing skills in producing photographic, graphic and animated materials used for the World Wide Web and multimedia.

COMS 27A. Digital Film/Video Production. 2 Units
Corequisite(s): COMS 27B.
Term Typically Offered: Fall, Spring

Addresses the theory and practice of film/video production. Students will be expected to understand: camera operation, audio control, basic directing, lighting, and editing. Students will also be expected to learn the terminology of video production/post-production and use this terminology competently. Students enrolled in COMS 27A must be concurrently enrolled in COMS 27B. There are no exceptions to this requirement.
Cross-listed: FILM 27A

COMS 27B. Digital Film/Video Production Laboratory. 1 Unit
Corequisite(s): COMS 27A.
Term Typically Offered: Fall, Spring

Provides practical, hands-on experience in video production. Students will be expected to become proficient in all production roles: camera operation, audio control, basic directing, lighting, and editing. Students enrolled in COMS 27B must be concurrently enrolled in COMS 27A.
Cross listed: FILM 27B.

COMS 55. Media Communication and Society. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the basic concepts of mass communication, including the effects, uses, and functions associated with the goods and services of mass media. Examination of the ways mass media combine with other institutions to affect the organization, design, and comprehension of messages, as well as political thought, cultural beliefs, and economic behavior.
Note: Majors must complete with a grade of 'C-' or better. Cross Listed: JOUR 55; only one may be counted for credit.

COMS 100A. Survey of Communication Studies. 3 Units
Term Typically Offered: Fall, Spring, Summer

Survey of various theories of communication. Attention given to such topics as verbal and nonverbal coding, information processing, interpersonal and small group communication, organizational communication, the structure and effects of mediated communication, rhetorical criticism, and research in communication.
Note: Majors and minors must complete with a grade of 'C-' or better.

COMS 100B. Rhetoric and Social Influence. 3 Units
Prerequisite(s): COMS Studies Majors only. COMS 2, COMS 4, (COMS 5 is accepted for COMS 4 for MCOM majors) or transfer equivalents and (GWAR Certification before Fall 09, or WPJ score of 80+, or at least a C- in ENGL 109M or ENGL 109W).
Corequisite(s): COMS 100A
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

Detailed examination of texts on controversial issues in order to illustrate the varied forms of rhetorical action and the diverse modes of rhetorical analysis. Examples drawn from the literature of classical/contemporary rhetors.
Note: Majors must complete with a grade of 'C-' or better; Writing Intensive

COMS 100C. Introduction to Scientific Methods in Communication Research. 3 Units
Prerequisite(s): COMS 100A; may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Empirical methods commonly applied during communication research. An introduction to the concepts fundamental to the scientific study of communication, including conceptual and operational definitions, sampling, measurement, experimental design, independent and dependent variables, and quantitative data analysis.
Note: Majors must complete with a grade of 'C-' or better.

COMS 101. Information Management and Privacy. 3 Units
Term Typically Offered: Fall, Spring

Students develop skills to use information proficiently in digital environments. In order to cope with information overload, students learn how to define and limit informational needs, how to access and evaluate information critically, and how to analyze and integrate information purposefully. The course teaches students evolving strategies and techniques for maintaining personal information spaces and security.

COMS 103. Presentational Speaking in the Organization. 3 Units
Prerequisite(s): A general education oral communication course.
Term Typically Offered: Fall, Spring, Summer

Contemporary communication techniques for use in business and industry. Principles and practice of oral reporting, persuasive speaking, conference participation, and interpersonal interaction.
Note: COMS majors are urged to take COMS 104 instead of COMS 103.

COMS 104. Persuasive Public Speaking. 3 Units
Prerequisite(s): COMS 2, COMS 4, or instructor permission.
Term Typically Offered: Fall, Spring

Advanced public speaking focusing upon persuasive strategies, principles and techniques.

COMS 105. Communication in Small Groups. 3 Units
Term Typically Offered: Fall, Spring, Summer

Theory and practice in small group communication. Topics include leadership, meeting management, evolution of group norms, phases of group development, communication networks, good communication techniques, conflict management, and problem solving in a variety of contexts.

COMS 106. Digital Media Creation - An Introduction. 3 Units
Term Typically Offered: Fall, Spring

Students learn multimedia authoring through the manipulation of digital media download legally from online repositories. Students learn how to digitally edit pixel-based images, vector images, audio, video and 3D models, while learning the principles that govern all digital media. The course uses Open Source and specialized software.

COMS 107. Children And Television. 3 Units
Term Typically Offered: Fall, Spring

Cognitive, affective, and behavioral effects of television on children. Explores in detail issues such as televised violence, stereotyping, advertising and cognitive development. Discusses relationship between television and education.

COMS 108. Family Communication. 3 Units
Prerequisite(s): COMS 8 or FACS 50 or SOC 166, or instructor permission.
Term Typically Offered: Fall, Spring

Family as a small group with emphasis on understanding and interpreting the dynamics of family communication and socio-psychological theories. Cross Listed: FACS 108; only one may be counted for credit.

COMS 110. Advanced Debate Workshop. 1 Unit
Term Typically Offered: Fall, Spring

Participation in intercollegiate debate competition.
Credit/No Credit

COMS 111. Debate Research Practicum. 3 Units
Term Typically Offered: Fall only

Directed research in the current intercollegiate debate topic; identification of issues, compilation of evidence, and case building.
Note: May be taken four times for credit with instructor permission.

COMS 114. Communication and American Culture. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Critical analysis of the ways modern American media interact with the conduct of American life; emphasizes the role of commercialism and other aspects of contemporary American capitalism; examines the problem of personal development and relationships in the context of a commercially dominated media system.

COMS 115. Nonverbal Communication. 3 Units
Term Typically Offered: Fall, Spring

Nonverbal communication will focus on the nonverbal aspects of human communication. Students will learn the vocabulary of nonverbal communication (NVC) as we examine the nature of NVC, NVC Codes, and the effects of NVC on messages we receive and send. In addition, we will consider nonverbal behaviors in interpersonal relationships, intercultural communication and research in nonverbal.

COMS 116. Intercultural Communication. 3 Units
Term Typically Offered: Fall, Spring, Summer

Analysis of factors which influence communication between individuals of different cultures and cocultures. Discussion and practical application.

COMS 117. Multimedia Communication. 3 Units
Prerequisite(s): COMS 106
Term Typically Offered: Fall, Spring

Students create and integrate information and digital media with the purpose of informing or persuading an audience. By identifying communication needs, students learn to prepare multimedia presentational aids and standalone multimedia presentations for distribution in online environments. This course features topics in visual communication, story-boarding, presentation and delivery.

COMS 118. Survey of Public Relations. 3 Units
Prerequisite(s): At least one college writing course in ENGL or JOUR with a grade of 'C-' or better.
Term Typically Offered: Fall, Spring

Introduces the student to publics, organization-environment relationships, structures, practices, and processes from a communication theory and research perspective. Specifically, the student is introduced to the multi-phased approach to public relations, an approach that highlights the PR subprocesses of task identification, task analysis, and task performance.

COMS 119. Conflict Resolution Through Communication. 3 Units
Term Typically Offered: Fall, Spring

Ways to identify, clarify, and resolve conflicts in dyads, groups, and organizations. Conflict is contrasted with disagreement, aggression, incompatible values, etc. The costs and benefits of conflict are explored.

COMS 120. History of the Media. 3 Units
Prerequisite(s): COMS 55 or JOUR 55 or equivalent; may be taken concurrently.
Term Typically Offered: Fall, Spring

Examination of development of major mass communication media in the U.S. and of how the economics, content, regulation and audience use of the media have been affected by the way the media have evolved. Current issues and trends are discussed, as well as possible future development.
Cross Listed: JOUR 120; only one may be counted for credit.

COMS 121. Media Aesthetics. 3 Units
Term Typically Offered: Fall, Spring

Overview and analysis of the primary aesthetic tools used to create messages in video and film. The basic properties of light, color, area, space, shape, sound, time and motion are defined and discussed as they relate to media production. Introduces students to the concepts and vocabulary necessary for effectively conceiving, producing or criticizing mediated messages. Designed primarily for students with interest in digital media. Provides a foundation for students working in media criticism.
Cross listed: FILM 121.

COMS 122. Writing for Interactive Media. 3 Units
Prerequisite(s): ENGL 1A and ENGL 20 or (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.)
Term Typically Offered: Fall, Spring

Writing and editing for visual, audio, and interactive media. How to choose appropriate format and delivery mechanisms for news, web sites, kiosks, and CD/DVD. Topics include copyright law and information ethics.

COMS 123. Writing for Public Relations. 3 Units
Prerequisite(s): JOUR 30; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
Term Typically Offered: Fall, Spring

Organization and operation of communication media; practice in publicity and public relations techniques. Emphasis on clear writing and correct public relations formats such as releases, PSAs, articles, and speeches.
Cross listed: JOUR 123

COMS 124. Writing Scripts for Film/Video. 3 Units
Prerequisite(s): ENGL 1A and ENGL 20.
Term Typically Offered: Fall, Spring

Developing narratives, documentaries, educational, promotional, and experimental short screenplays. Students are expected to develop a writing style and master screenwriting and audio/visual scripting formats. Scripts will be developed to be produced in advanced production courses: COMS/FILM 128 and COMS/FILM 185.
Cross listed: FILM 124.

COMS 126. Motion Graphics in Film and Video. 3 Units
Prerequisite(s): COMS 20A, COMS 20B and COMS 26 or both COMS 27A and COMS 27B each with a grade of 'B-' or better or instructor permission.
Term Typically Offered: Fall, Spring

Artistic and technical skills employed when capturing and editing photographic, audio, and video data files. Data files are prepared for export into multimedia authoring applications. Mastery of appropriate hardware and software.

COMS 127. Producing and Directing for Television. 3 Units
Prerequisite(s): COMS 20A, COMS 20B, COMS 27A, COMS 27B, each with a grade of 'B-' or better.
Term Typically Offered: Fall, Spring

Theory and practice of producing and directing television programs with emphasis on studio and control room techniques.

COMS 128. Non-Studio Video Production. 3 Units
Prerequisite(s): COMS 20A, COMS 20B, COMS 27A, COMS 27B.
Term Typically Offered: Fall, Spring

Production of video materials using portable cameras and recorders. Application of electronic field production and post-production techniques. Cross-listed: FILM 128.

COMS 129. Film and Video Production Management. 3 Units
Term Typically Offered: Fall, Spring

Management and administration of the preproduction and production process. Course to include script breakdown, budgeting, scheduling and other preproduction and production management skills needed for film or video production. Special attention on the history, development and current practices of the Production Manager.
Cross listed: FILM 129.

COMS 130. Staging and Lighting Digital Video. 3 Units
Prerequisite(s): COMS 20A, COMS 20B, COMS 27A, COMS 27B, each with a grade of B- or better.
Term Typically Offered: Fall, Spring

Introduction to the aesthetics, concepts and techniques used to control lighting in digital video productions. Aspects of staging, blocking and composition in the context of studio and location lighting.
Note: Students enrolled are required to work on productions outside of scheduled class time (1-3 hours/week). Cross listed: FILM 130.

COMS 133. The Documentary Film. 3 Units
Term Typically Offered: Fall, Spring

Examines the historical, development, and present state of documentary film. Emphasis is on both understanding and critically analyzing the significance of various genres of the documentary and its uses as a tool for information, proselytizing, education, and propaganda.

COMS 136. Introduction to Electronic Publishing. 3 Units
Prerequisite(s): COMS 26 or instructor permission.
Term Typically Offered: Fall, Spring

Design and production of information sites for the World Wide Web. Concepts covered include market analysis, cognitive design, layout, navigation, interactive strategies, site management, and multimedia components for electronic distribution systems. Introduction to object oriented programs and XHTML text editors.

COMS 140. Online Collaboration. 3 Units
Term Typically Offered: Fall, Spring

Students learn to communicate in virtual environments in real-time and asynchronously. Students survey current technologies for collaboration, explore psychological and cultural aspects of individuals working and communicating in teams across computer networks, and identify strategies to foster cooperatives in distributed work.

COMS 141. Theory of Film and Video Editing. 3 Units
Prerequisite(s): COMS/FILM 27A and COMS/FILM 27B with final posted grade of C or better.
Term Typically Offered: Fall, Spring

Study of history and theory of film and video editing. Many films are viewed and discussed, examining how editing theory is put into practice. Cross listed: FILM 141.

COMS 142. Film As Communication. 3 Units
Term Typically Offered: Fall only

Explores the uses of film as a tool of communication.

COMS 143. Theories of Interpersonal Communication. 3 Units
Prerequisite(s): COMS 8 or equivalent; COMS 100A may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

One-to-one communication between individuals in both social and task settings. Theories of communication during the growth and decay of relationships, as well as research on the forces behind relational dynamics. Topics include nonverbal communication, self concept, communication of self, theories of conflict resolution, communication competence and the rhetoric of disconfirmation.

COMS 144. Developing Rich Media Websites. 3 Units
Prerequisite(s): COMS 27A, and COMS 27B.
Term Typically Offered: Fall, Spring

An introduction to the creation of multimedia websites using current multimedia development software such as Flash. Emphasis will be placed on creating interactive video and formatting video programs for delivery over the WWW, extranets, or intranet.

COMS 145. Organizational Communication. 3 Units
Prerequisite(s): COMS 100A.
Term Typically Offered: Fall, Spring, Summer

Basic concepts of interpersonal and inter-group communication within formal and informal social organizations. Current techniques of auditing and evaluating organizational communication.

COMS 149. Multimedia Authoring. 3 Units
Prerequisite(s): COMS 106, COMS 126.
Term Typically Offered: Fall, Spring

Basic multimedia authoring theory and skills. Text, graphics, audio, and video are synchronized into interactive media. Topics include 2D animation, interface design, and fundamentals of scripting language.

COMS 150. Mass Communication Theories and Effects. 3 Units
Prerequisite(s): COMS 55 or JOUR 55 or equivalent; and COMS 100A which may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Survey of the major theories dealing with the relationship between the mass media and human communication behavior. Examination of research into the social, political, economic and cultural effects of mass communication.

COMS 152. Freedom Of Speech. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Thorough introduction to issues related to freedom of speech and censorship, sections of the historical origins of free speech, seditious speech, libel and slander, pornography and obscenity, commercial speech and advertising, symbolic speech and hate speech. The class brings a communication focus to addressing issues related to the First Amendment.

COMS 153. Journalism Law and Ethics. 3 Units
Term Typically Offered: Fall, Spring

Laws and regulations that govern print, broadcast, and the electronic mass media in the U.S. Discusses the process by which laws and regulations are enacted and interpreted as well as legal and regulatory issues concerned with the content, control, political role and responsibilities of media practitioners, regulators, Congress, and the public.
Cross listed: JOUR 153

COMS 154. Instructional Design and Training. 3 Units
Term Typically Offered: Fall, Spring

Communication theory and practice in organizational training. Surveys instructional communication theory and the instructional design process. Focus on effective communication in training contexts. Topics include needs assessment, training design, training evaluation and training delivery via electronic media.

COMS 155. Survey of World Cinema. 3 Units
Term Typically Offered: Fall, Spring

A historical review of the development of major international film styles and themes. Concepts derived from this study of international film are then used as a basis to analyze contemporary films of India, Asia, and Africa. Emphasis is on both the development of formal film technique and a comparison of the unique cultural values that shape the film narrative and style.

COMS 157. Video Art. 3 Units
Prerequisite(s): ART 97 or COMS 27A/Film 27A and COMS 27B/Film 27B.
Term Typically Offered: Fall, Spring

The creation and analysis of video artwork; including techniques of video production, post-production manipulation and critique, within the context of art and communication. The techniques and theory of producing and editing video will serve as a foundation for the pursuit of individual, creative projects.
Cross-listed as ART 147; only one may be counted for credit.

COMS 158. Public Relations Planning and Management. 3 Units
Prerequisite(s): COMS 118 and COMS 123 or JOUR 123 with grade of 'C-' or better.
Term Typically Offered: Fall, Spring

Theoretical concepts to the solution of problems for pre-selected non-profit and campus clients by forming small group PR agencies; completing needs assessments; profiling target and secondary audiences; developing and implementing a strategic public relations plan; producing targeted messages for media kits and other uses; developing and evaluating formative and summative evaluation plans; and making formal in-class presentations to peers, clients and invited PR professionals. Students will also learn how to negotiate contracts, maintain client relations, track work on projects and develop timelines and budgets.
Cross Listed: JOUR 158; only one may be counted for credit.

COMS 160. Political Communication. 3 Units
Term Typically Offered: Fall only

Analyzes the relationship between mass media and political decision-making, including a structural analysis of political and media institutions. Particular attention on the formation of public opinion through messages and strategies, and the impact of public opinion on public policy.

COMS 161. Health Communication. 3 Units
Term Typically Offered: Fall, Spring

Communication principles and techniques as they apply to the many facets of health care, health education and promotion, and research in health communication. Emphasis on understanding and improving communication among health professionals, and between health professionals and clients. Explores the rapidly emerging field of health communication. Selected concepts and theories of human communication are directly applied to communication problems and situations in health care settings through the use of case studies. In addition, pertinent research that helps explain human interaction in health care is incorporated through readings and discussions.

COMS 162. Gender Ideology and Communication. 3 Units
Prerequisite(s): COMS 100A
Term Typically Offered: Fall, Spring

Scholarly, theoretical and critical writings on the production and circulation of gender roles, images, and gender-types attributes through communication, with a special focus on mass-mediated communication such as television, video, and film.

COMS 164. Visual Communication. 3 Units
Prerequisite(s): COMS 100A and 100B or equivalent, with a grade of C- or better.
Term Typically Offered: Fall, Spring, Summer

Comprehensive overview of the theoretical concepts and communication methodologies appropriate for analysis of contemporary visual messages. Focuses on rhetorical analysis of visual messages. Significant research and critical writing required

COMS 165. Communication and Religion. 3 Units
Term Typically Offered: Fall, Spring, Summer

Examines the history, development and present state of religious communication. Discussion of the limits and challenges communication theories face when confronted with situations requiring them to describe the indescribable. Emphasis upon the communication methods in a religious context as well as the communication strategies, limits, and possibilities that are revealed in what is arguably the most extreme of communication situations: the intersection of religion and words.

COMS 166. Theories of Persuasion and Attitude Change. 3 Units
Term Typically Offered: Fall, Spring

Various theories of persuasion and attitude change, both classical and empirical, in terms of their effectiveness and social impact. Includes units on production and consumption of persuasive messages.

COMS 167. Systems and Theories of Rhetoric. 3 Units
Prerequisite(s): COMS 100B or equivalent with a grade of 'C-' or better.
Term Typically Offered: Fall, Spring, Summer

Historical survey of theories of rhetoric. Comparison/contrast of scope and value of rhetorical theories. Practice in critical writing.

COMS 168. Approaches to Rhetorical Criticism. 3 Units
Prerequisite(s): COMS 100B or equivalent with a grade of 'C-' or better.
Term Typically Offered: Fall, Spring, Summer

Analyzes rhetorical events, using a variety of critical perspectives. Current issues on criticism's function and the critic's role. Practice in critical writing.

COMS 169. Television Criticism. 3 Units
Prerequisite(s): COMS 100B with a grade of C- or better; completion of 12 units of upper division COMS courses; or unclassified graduate student status; or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Introduction to television criticism theory and to various critical methods with which television program texts may be analyzed. Current theoretical and critical issues in the function of criticism and the role of the critic are addressed through readings, writing assignments, screenings and discussion.

COMS 170. Data Analysis in Communication Research. 3 Units
Prerequisite(s): COMS 100C or equivalent with a grade of 'C-' or better; or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Introduction to the application of data analysis to the study of communication processes.

COMS 171. Survey Methods in Communication Research. 3 Units
Prerequisite(s): COMS 100C or equivalent with a grade of 'C-' or better; or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Techniques of survey research in communication, including sampling, questionnaire construction, interviewing, data analysis, and report writing. Each student designs and executes a research project.

COMS 172. Content Analysis. 3 Units
Prerequisite(s): COMS 100C or equivalent with a grade of 'C-' or better; or instructor permission.
Term Typically Offered: Fall, Spring

Content analysis as a research technique in communication. Emphasizes design and execution of content analysis studies in a wide range of communication situations. Each student completes several short studies and a major project.

COMS 173. Communication, Language and Culture. 3 Units
Prerequisite(s): COMS 100A.
Term Typically Offered: Spring only

Cross-cultural exploration of communication and social interaction; relationship between language and society; cross-cultural implications of values embedded in message production, transmission, and interpretation; studies of how language influences perception and organization of social reality; linguistics, information and message transmission.
Note: Restricted to junior and above or instructor permission.

COMS 174. International Communication. 3 Units
Prerequisite(s): COMS 100A.
Term Typically Offered: Fall, Spring, Summer

Movement of mediated messages across and between national boundaries. Topics include news and entertainment flow, media systems and philosophies, cultural dependency and imperialism, the new world information order and communication development.

COMS 175. Creative Problem Solving. 3 Units
Term Typically Offered: Fall, Spring

Creative problem solving techniques for use by individuals and groups. Topics include the nature of creative problem solving, barriers to creativity, clear problem definition, idea generation, decision making, group dynamics in creative situations, implementation of changes, and overcoming resistance to change.

COMS 176. Communication and Terrorism. 3 Units
Prerequisite(s): COMS 100A or instructor permission
Term Typically Offered: Spring only

This course addresses the communication aspects of terrorism, including both the ways terrorism has been used to make political and religious statements worldwide; how the media cover those messages; and how we talk about those messages and the coverage they receive. The course draws on the cutting-edge communication research from international/intercultural, political, mass communication, and computer-mediated communication sources. This is a course in the communication of terrorism. It is neither a course in the political science of terrorism nor in the criminal justice enforcement of counter-terrorism.

COMS 178. Virtual Communities on the Internet. 3 Units
Term Typically Offered: Fall, Spring

The nature of communication in virtual communities on the Internet and the impact that these communities have on traditional communication media. Topics include: the interaction of real and cyber communities, self-publishing, educational uses of virtual communities, virtual self-governance, artificial intelligent agents, and the issues of security, privacy, and anonymity. Students will participate in structured on-line activities.

COMS 179. Media, Sports, and Society. 3 Units
Term Typically Offered: Spring only

Examines and critiques the relationship between the mass media and sports. Reviews theoretical approaches for studying media and sports (including historical, sociological, psychological, political, and cultural studies perspectives), then examines how sport is mediated through literature, print journalism, radio, and television.

COMS 180. Senior Seminar in Organizational Communication. 3 Units
Prerequisite(s): COMS 145; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring, Summer

Seminar on communication theories, techniques and research methodologies in the field of social and governmental organizational systems.

COMS 181. Senior Seminar in Small Group Communication. 3 Units
Prerequisite(s): COMS 105; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring, Summer

Seminar on the ways theories of group communication are realized in actual social settings.

COMS 182. Senior Seminar in Interpersonal Communication. 3 Units
Prerequisite(s): COMS 8, COMS 143, and completion of 12 units of upper division COMS courses including COMS100A.
Term Typically Offered: Fall, Spring, Summer

Seminar on advanced theories of interpersonal communication. Sample topics include relational development, relational termination, communication and interpersonal attraction, and communication competence. Students present one in-class report and complete a major research paper.

COMS 183. Senior Seminar in Media Issues and Ethics. 3 Units
Prerequisite(s): COMS 55 or JOUR 55; COMS 150; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring

Seminar on the functions and roles of communication media in contemporary society. Includes issues and ethical considerations associated with freedom, responsibility and control examined from the points of view of the media, the government and the public. Specific topics will vary.

COMS 184B. Multimedia Project Completion. 3 Units
Prerequisite(s): Instructor permission.
Corequisite(s): COMS 184A.
Term Typically Offered: Fall, Spring

Second of a two-semester senior project sequence. Students complete the project designed in COMS 184A. Projects are completed with assistance and feedback from the instructor, client, and working professionals.

COMS 185. Senior Practicum in Video Production. 3 Units
Prerequisite(s): COMS/FILM 124 with a final posted grade of C or better; COMS/FILM 128 with a final posted grade of C or better.
Term Typically Offered: Fall, Spring

Assignments in various phases of video production including creative use of camera, sound and lighting, editing production design, production planning and management, and directing and producing. Students in first semester function as crew members for productions.
Note: May be repeated once for credit. Repeating students are expected to produce and direct a major student project. Cross listed: FILM 185.

COMS 186. Seminar in Health Communication. 3 Units
Term Typically Offered: Fall, Spring

Examines how health messages impact individuals, communities, and mass audiences. Critiques health communication research, raises awareness about health-related messages in our daily lives, applies theories of health communication, and critically analyzes how the creation, sending, and reception of health messages impacts society. Sample topics include doctor-patient communication, cross-cultural communication about health, and mass media effects of health-related images in media.

COMS 187. Issue Management and Case Studies in Public Relations. 3 Units
Prerequisite(s): COMS 118; completion of 12 units of upper division COMS courses.
Term Typically Offered: Fall, Spring

Examines the management of issues in the public and private sectors including knowledge and skills in the communication activities and thinking processes that affect an issue's development. Uses case studies of organizations--governmental agencies, businesses, and not-for-profit entities to assess issue development and management by examining the fundamental questions confronting organizations: What should the particular organization do and how should it do it? Examines criteria for selecting among alternative options, and the relation of the organization to its environment. Explores the broader social, legal, and ethical implications of the organization's activities.

COMS 188. Senior Seminar in Intercultural Communication. 3 Units
Prerequisite(s): COMS 116; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring, Summer

Critically examines and analyzes complex dynamics and concepts in communication and culture in a pluralistic society. Also relates various perspectives on intercultural communication theories and methods to an analysis of social interaction processes among culturally diverse groups. An interactive dimension includes problem-solving strategies.

COMS 189. Practicum in Communication Training. 3 Units
Prerequisite(s): COMS 145 and COMS 154 or instructor permission.
Term Typically Offered: Spring only

Students work in groups to complete organizational training projects within community organizations. After assessing the organization's needs, students design, conduct and evaluate training. Advanced readings and professional competencies are emphasized.

COMS 190. Human Communication on the Internet. 3 Units
Term Typically Offered: Fall only

Provides an in-depth study of communication models that summarize and explain the interaction of humans in electronic environments, especially the Internet. Students locate, organize, analyze, an synthesize the latest research in online communication and make connection between theoretical models and their own experiences.

COMS 191. New Media and Society. 3 Units
Term Typically Offered: Fall, Spring, Summer

The course examines contemporary social, cultural, political and economic topics regarding the adoption of digital media and the Internet. Students understand their role as citizens of a global knowledge-based society and the ethical dimensions brought by the new computer-enabled media environment.

COMS 192. Senior Seminar in Film. 3 Units
Prerequisite(s): Completion of the Film Studies upper and lower division core or COMS 142, and (GWAR Certification before Fall 09, or WPJ score of 80+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Spring only

Research seminar that provides an in-depth investigation of film as an art form, a medium of mass communication and a means of personal expression. Subject will vary according to instructor.
Cross listed: FILM 192.

COMS 194. Communication Studies - Related Work Experience. 3 - 6 Units

Prerequisite(s): Open only to upper division or graduate students with appropriate course preparation. Units may not be used to meet COMS major, minor or graduate course work requirements. Consent of Communication Studies Department faculty advisor required. No more than 12 units may be counted toward the degree.
Term Typically Offered: Fall, Spring

Supervised employment in a company or agency working on communication studies-related assignments, arranged through the Department of Communication Studies and the Cooperative Education Program office. Requires preparation of application packet, completion of a 6 month full-time or part-time work assignment, and a written report.
Credit/No Credit

COMS 195. Internship in Communication Studies. 1 - 6 Units
Prerequisite(s): COMS 100A, minimum 2.3 overall GPA.
Corequisite(s): COMS 100A.
Term Typically Offered: Summer only

Directed work experience in the internship program. Supervision is provided by both instructional staff and the cooperating agency. Faculty approval required.
Credit/No Credit

COMS 196. Critical Analysis of the Media. 3 Units
Prerequisite(s): Upper division standing for majors and non majors.
Term Typically Offered: Fall, Spring

The course will introduce students to semiotics that will be employed to tease out 'overt' and hidden meanings in news (print and video) and other mediated messages. In particular the course will focus on the various, powerful strands of American ideology, e.g., individualism, democracy, patriarchy, femininity, feminism, capitalism, the family, patriotism, environmentalism, and the First Amendment that shape an understanding of ourselves and of our society. It will examine the present state of American journalism and how it operates.

COMS 199. Special Problems. 1 - 3 Units
Prerequisite(s): COMS 100A.
Term Typically Offered: Fall, Spring

Individual projects or directed reading open to students who wish to attempt independent work. Faculty approval required.
Credit/No Credit

COMS 200. Qualitative Research Methods in Communication Studies. 3 Units

Term Typically Offered: Fall, Spring

Focuses on qualitative research methods as one methodological option to use in scholarly research. Critically review and analyze existing qualitative research projects; creation of qualitative research project; and response the research projects of peers. Consideration of ways to successfully integrate into the communication discipline through a variety of class discussions, readings, and activities.
Note: Graduate student status or instructor permission required

COMS 201. Communication Theory. 3 Units
Term Typically Offered: Fall, Spring

Approaches to the study of human communication. Emphasizes general theories of communication and specific theories of rhetoric, symbolic interaction, information processing, interpersonal communication, small group communication, persuasion, organizational communication, and mass communication. Must be taken within first two semesters of graduate enrollment.
Note: Graduate standing or instructor permission required.

COMS 202. Quantitative Research Methods in Communication Studies. 3 Units

Prerequisite(s): Graduate student status or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to advanced quantitative and qualitative research methods. Students will demonstrate their ability to apply at least one research perspective to a significant topic of interest in the discipline. Students are expected to produce a well-crafted research proposal as part of a culminating experience.

COMS 206. Organizational Communication. 3 Units
Term Typically Offered: Fall, Spring

History, research, and theories in the social, psychological, and structural aspects of organizational communication. Students undertake field studies integrating various analytical approaches.

COMS 207. Dyadic Communication. 3 Units
Term Typically Offered: Fall, Spring

Various theoretical approaches to interpersonal or face-to-face communication.

COMS 208. Communication and National Development. 3 Units
Term Typically Offered: Fall, Spring

Role of communication in national development. Examines how communication (government policies, technologies and implementation strategies) can be used in the development of third world nations.

COMS 209. Communication and Social Change. 3 Units
Term Typically Offered: Fall, Spring

Relationship between movement rhetoric, mass media messages and major societal changes and paradigm shifts. Students examine the flow of communication from individual and group 'change agents' to the larger population and write a paper which illuminates a contemporary social change in progress.

COMS 210. Seminar in Mass Communication. 3 Units
Term Typically Offered: Fall, Spring

Concentrated survey of mass media systems and an analysis of theories of media uses and effects. Students are required to conduct library research on a specific media-related topic and to present their findings orally.

COMS 211. Electronic Media and American Culture. 3 Units
Term Typically Offered: Fall, Spring

American thought and culture as reflected in and influenced by the content of electronic media.

COMS 212. Seminar in Small Group Communication. 3 Units
Term Typically Offered: Fall, Spring

Theory and research about task-oriented groups.

COMS 213. Seminar In Criticism. **3 Units**
Term Typically Offered: Fall, Spring

Intensive examination of critical theory. A major critical paper is prepared by each student.
Note: Graduate Writing Intensive

COMS 215. Communication and Public Opinion. **3 Units**
Term Typically Offered: Fall, Spring

Examines theoretical foundations of public opinion formation and change and explores current public opinion measurement methodologies.

COMS 216. Seminar on Contemporary Issues in Intercultural Communication. **3 Units**
Term Typically Offered: Fall, Spring

Various theories, perspectives and approaches to the study of intercultural communication. Selected contemporary issues pertaining to race and culture and their impact on the communication process, especially the multicultural/multiracial consciousness in California in particular, and the U.S. in general.

COMS 217. Assessment of Communication Behavior in Organizations. **3 Units**
Term Typically Offered: Fall, Spring

Review of measuring instruments commonly used to assess communication practices in large organizations. Students also critically review relevant research literature regarding important communication issues in large organizations.

COMS 219. Conflict Resolution. **3 Units**
Term Typically Offered: Fall, Spring

Review of theory and research of the role of communication in conflict resolution.

COMS 221. Instructional Communication Theory. **3 Units**
Term Typically Offered: Fall, Spring

Survey of dominant theories of instructional communication. Students read, study and critique prevailing bodies of literature which have a bearing on the study and practice of instructional communication. Theories are used to help students reflect on their own experiences as teachers and students and to generate new ideas for research in instructional communication.

COMS 222. Instructional Communication Practicum. **3 Units**
Term Typically Offered: Fall, Spring

Examination of communication theory and research in instructional or training contexts. Designed for beginning teachers or organizational trainers. Centers on those communication principles which contribute to greater student/client learning and satisfaction. Emphasis on the development and implementation of instructional communication packages for adult learners.

COMS 228. Corporate Advocacy and Public Policy. **3 Units**
Term Typically Offered: Fall, Spring

Explores 'corporate advocacy' as a kind of rhetorical, persuasive transaction between Corporate America and those in its environment. Seeks to understand corporate America's role in the 'policy process' (broadly defined), by analyzing the constituted authority for policy formation, the actual institutions involved in such formation, the interaction between/among these centers of power, the difference between authority and influence between/among these centers of power and influence, and how corporate America uses rhetorical messages to enhance various goals.

COMS 230. Computer-Mediated Communication. **3 Units**
Term Typically Offered: Fall, Spring

Instruction and analysis of human and social Computer-Mediated Communications. Covers from how digital media affects representation and narrative to research on current uses of the Internet and the theoretical frameworks applied to summarize it. Includes a component of Computer Literacy that will help students understand Computer-Mediated Communication and use online collaborative tools efficiently. No previous computer knowledge is required.

COMS 285. Practicum for Teaching Associates in Communication Studies. **1 Unit**
Prerequisite(s): COMS 200, COMS 201.
Term Typically Offered: Fall, Spring

Open to students appointed as teaching associates in Communication Studies. Designed to facilitate the development, refinement, and maintenance of effective teaching methods and strategies.
Note: May be repeated up to three times with permission of instructor.

Credit/No Credit

COMS 295. Internship in Communication Studies. **1 - 6 Units**
Term Typically Offered: Fall, Spring

Directed work experience in the internship program. Supervision is provided by both the instructional staff and the cooperating agency. Faculty and Graduate Committee approval required the semester prior to enrollment.
Credit/No Credit

COMS 296A. Communication Research Methods. **1 Unit**
Term Typically Offered: Fall, Spring

This one-unit module provides an in-depth look at a particular communication research method or data analysis technique. Content varies.
Note: 1 unit, repeatable.

COMS 296B. Communication Topics. **1 Unit**
Term Typically Offered: Fall, Spring

This one-unit module provides an in-depth look at a particular communication research topic or theory. Content varies.
Note: Course may be repeated so long as the topic is different.

COMS 297. Directed Study and Comprehensive Examination. **1 - 3 Units**

Prerequisite(s): Must be advanced to candidacy.
Term Typically Offered: Fall, Spring

Structured and supervised reading program for MA candidates preparing for comprehensive examinations. Should be taken after completion of all other requirements for the degree. Credit given upon successful completion of comprehensive examinations. Examining committee determines the number of units to be credited.
Note: Open to students who have been advanced to candidacy and have secured permission of the chair of their examining committee and the Graduate Coordinator.

Credit/No Credit

COMS 298. Colloquium In Communication. **3 Units**
Term Typically Offered: Fall, Spring

A seminar on a communication topic of contemporary concern. Topic may change from semester to semester. May be taken for credit more than once, provided topic is not repeated.

COMS 299. Special Problems. **1 - 3 Units**
Term Typically Offered: Fall, Spring

Individual projects or directed reading open to students wishing to attempt independent work. Faculty and Graduate Committee approval required the semester prior to enrollment.
Credit/No Credit

COMS 500. Culminating Experience. **3 - 6 Units**
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis or project committee.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree. Thesis or project prospectus committees determine the number of units to be credited.

BA in Communication Studies (General Communication)

Units Required for Major: 39
Total units required for BA: 120

Program Description

Communication Studies is a broad-based discipline concerned with the exchange of messages in interpersonal and mediated situations and with the impact of such exchanges on society. Courses focus on understanding the communication process and developing skills to communicate effectively. The Department offers a wide range of courses in interpersonal, group, and organizational communication, rhetorical theory and criticism, public relations, mass communication, research methodologies, and digital media (video or multimedia).

This concentration is designed to:

- improve student awareness, understanding, and practice of communication in professional and social interactions;
- enhance the traditional citizenship role in the democratic process; and
- train students in communication skills in preparation for professions within the public or private sectors of the economy

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (9 Units)		
COMS 2	Argumentation [1]	3
COMS 8	Interpersonal Communication Skills	3
COMS/JOUR 55	Media Communication and Society	3
Required Upper Division Core Courses (9 Units)		
COMS 100A	Survey of Communication Studies	3
COMS 100B	Rhetoric and Social Influence ✎	3
COMS 100C	Introduction to Scientific Methods in Communication Research	3
Research Methods (3 Units)		
Select one of the following:		3
COMS 164	Visual Communication	
COMS 165	Communication and Religion	
COMS 168	Approaches to Rhetorical Criticism	
COMS 170	Data Analysis in Communication Research	
COMS 171	Survey Methods in Communication Research	
COMS 172	Content Analysis	
Theory and Seminar Pair (6 Units)		
Select one of the following pairs:		6
Intercultural Communication		
COMS 116	Intercultural Communication	
COMS 188	Senior Seminar in Intercultural Communication	
Interpersonal Communication		
COMS 143	Theories of Interpersonal Communication	
COMS 182	Senior Seminar in Interpersonal Communication	
Film as Communication		
COMS 142	Film As Communication	
COMS 192	Senior Seminar in Film	
Mass Communication		
COMS 150	Mass Communication Theories and Effects	
COMS 183	Senior Seminar in Media Issues and Ethics	
New Media		
COMS 150	Mass Communication Theories and Effects	
COMS 191	New Media and Society	
Organizational Communication		
COMS 145	Organizational Communication	
COMS 180	Senior Seminar in Organizational Communication	
Rhetoric and Social Influence		
COMS 167	Systems and Theories of Rhetoric	
COMS 169	Television Criticism	
Small Group Communication		
COMS 105	Communication in Small Groups	
COMS 181	Senior Seminar in Small Group Communication	
Upper Division Electives (12 Units)		
Select four approved courses [2]		12
Total Units		39

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Select any four COMS and/or JOUR upper division courses numbered 100 or above **in consultation with your major advisor**.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (3-6 Units)		
A1 - Oral Communication [2]		0 - 3
A2 - Written Communication		3
A3 - Critical Thinking [3]		0
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43-46

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department recommends COMS 4 or COMS 5 to meet Area A1.

[3] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Communication Studies (Public Relations)

Units required for Major: 48
Total units required for BA: 120

Program Description

This concentration, developed from the Commission on Public Relations Education recommendations, is designed to:

- prepare students to assume professional entry level roles in the practice of public relations;
- help students understand the integration of public relations and marketing;
- prepare students to compose, develop, and analyze print and broadcast messages;
- help students to develop demonstrable competencies in writing, analyzing, problem-solving, and critical thinking;
- provide opportunities for testing public relations theory and practice, not only in the classroom, but in the field as well; and
- develop relationships with local public relations professionals as well as with community organizations.

Pre-Major Requirements

Prior to acceptance as a Communication Studies major, students must complete a pre-major consisting of all required lower division courses plus the upper division survey course (COMS 100A). Students must successfully complete each pre-major course with a grade of 'C-' or better. Students with a Sacramento State grade point average of 2.3 or better may request early admission to the major.

General Requirements

- All Communication Studies majors except those in Mass Communication and Digital Media are required to complete at least one three-unit public speaking course such as COMS 4, COMS 104, or transfer equivalent. Public speaking courses taken to fulfill the GE oral communication requirement also fulfill this Department requirement.

- Majors must complete each core course and each option core course with a grade of 'C-' or better.
- Not more than 6 units of debate, internship and/or individual study (see the following) can be applied to the major requirements.

Code	Title	Units
COMS 110	Advanced Debate Workshop	1
COMS 111	Debate Research Practicum	3
COMS 194	Communication Studies - Related Work Experience	3 - 6
COMS 195	Internship in Communication Studies	1 - 6
COMS 199	Special Problems	1 - 3

- Majors are urged to take COMS 2, Argumentation (or transfer equivalent) to fulfill their critical thinking requirement.
- Communication Studies courses may only be repeated once for a grade change. Students who fail to achieve at least a 'C-' in two attempts in a core course will be disqualified in majoring in Communication Studies.
- One project or paper from each capstone course will be reviewed by selected faculty for the purpose of departmental assessment.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (12 Units)		
COMS 2	Argumentation [1]	3
COMS 8	Interpersonal Communication Skills	3
COMS/JOUR 55	Media Communication and Society	3
JOUR 30	News Writing	3
Required Upper Division Core Courses (9 Units)		
COMS 100A	Survey of Communication Studies	3
COMS 100B	Rhetoric and Social Influence [1]	3
COMS 100C	Introduction to Scientific Methods in Communication Research	3
Concentration Requirements (21 Units)		
COMS 106	Digital Media Creation - An Introduction	3
COMS 118	Survey of Public Relations	3
COMS/JOUR 123	Writing for Public Relations	3
COMS/JOUR 158	Public Relations Planning and Management	3
COMS 170	Data Analysis in Communication Research	3
or COMS 171	Survey Methods in Communication Research	
COMS 187	Issue Management and Case Studies in Public Relations	3
MKTG 101	Principles Of Marketing	3
Electives (6 Units)		
Select 6 units of upper division Communication Studies courses [2]		6
Total Units		48

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Six units of upper division Communication Studies courses selected in consultation with major advisor.

Notes:

- Students in the Public Relations Concentration would be encouraged to minor in the social sciences or business.
- Not more than 3 units of Internship (COMS 195) can be applied to the Public Relations Concentration.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		46

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3

Race and Ethnicity in American Society (RE)	3
Foreign Language Proficiency Requirement [3]	6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

MA in Communication Studies

Total Units required for the MA: 30

Program Description

A Master's degree can lead to doctoral or other professional education, or to advanced positions in business, public service, or government. The graduate program in Communication Studies is guided by two interrelated goals. First, that each student has the opportunity to study and conduct original communication research consistent with individual interests and abilities. Second, each student develop and follow a coherent, rigorous plan of study within the field of communication. Accordingly, a structured advising procedure has been established in the Department to help accomplish these two goals (see 'The Graduate Document,' available from the Department, for details). As an integral part of a plan of study, each student will designate a series of courses to be completed for their degree with the assistance of their advisor and the approval of the Graduate Committee. A statement outlining the logic of the chosen courses will be required and will be reviewed by the Graduate Committee. Areas of faculty expertise include (but are not limited to):

- Mediated Communication
- Organizational Communication
- Instructional Communication
- Rhetoric and Criticism
- Political Communication
- Intercultural/International Communication
- Social Interaction

As mentioned above, this program, culminating in the Master of Arts in Communication Studies, is designed for the student who subsequently will pursue a doctoral degree or a professional career. The program is **NOT** designed for students who wish to train in production or presentational skills which are taught at the undergraduate level in the Sacramento State Communication Studies Department.

Admission Requirements

Admission as a classified graduate student in Communication Studies is based on the assessment of individual credentials by the Graduate Committee, but requires at least:

- a 3.0 overall GPA or 3.25 GPA in the last 60 undergraduate units;
- a grade 'B-' or better in the following (or equivalent courses):

Code	Title	Units
COMS 167	Systems and Theories of Rhetoric	3
or COMS 168	Approaches to Rhetorical Criticism	
or COMS 169	Television Criticism	
COMS 170	Data Analysis in Communication Research [1]	3
or COMS 171	Survey Methods in Communication Research	
or COMS 172	Content Analysis	

- a clearly written statement of purpose for pursuing this particular MA degree. This statement is part of the application to the graduate program and should explain the applicant's career and academic goals, specifying how the program will help to accomplish these goals, and explain the applicant's motivation for pursuing those goals;
- three letters of recommendation indicating the applicant's abilities and potential for completing graduate work successfully. These letters should assess at least the student's abilities to perform well in academic courses; to conduct research independently; to express ideas well in writing and orally; and to think critically, analytically, and creatively;
- Graduate Record Exam (GRE) verbal, quantitative, and analytical scores;
- an earned baccalaureate degree, and
- two examples of writing that indicate research, analytical, and/or creative abilities.

Admission Procedures

Applicants are strongly encouraged to apply several months prior to the semester first enrollment is sought. **All** application materials must be received before any evaluation begins. Applicants must complete a separate university application by the posted application deadline date for the term applying. *For more admissions information and application deadlines, please visit* http://www.csus.edu/gradstudies/:

- an online application for admission; and
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State*.

A decision regarding admission will be mailed to the applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum cumulative GPA: 3.0. No course with a grade lower and 'B-' may apply towards the degree

Advancement to Candidacy

Near the completion of coursework each student must submit an Advancement to Candidacy form, with his or her major advisor and graduate coordinator's approval, to the Office of Graduate Studies. This procedure may begin upon satisfactory completion of the following:

- all deficiencies in admission requirements removed;
- all undergraduate course deficiencies, as noted as conditions on application response;
- the following with a grade 'B-' or better;

Code	Title	Units
COMS 200	Qualitative Research Methods in Communication Studies	3
COMS 201	Communication Theory	3
COMS 202	Quantitative Research Methods in Communication Studies	3

- at least 50 percent of coursework toward the degree; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

At least 18 units must be 200-level courses and no more than 6 units of courses numbered 150-198 (excluding 195) may count toward the minimum 30-unit requirement. By University policy, courses completed to satisfy deficiencies or admission requirements are not counted toward the MA degree.

Program Requirements

Code	Title	Units
Required Courses (12 Units)		
COMS 200	Qualitative Research Methods in Communication Studies	3
COMS 201	Communication Theory	3
COMS 202	Quantitative Research Methods in Communication Studies	3
COMS 213	Seminar In Criticism	3
Major Courses		**12 - 18**
Select 12-18 units of graduate courses [1]		
Culminating Requirement		**1 - 6**
Select one of the following:		
COMS 500	Culminating Experience (Plan A: Thesis, Plan B: Projects) [2]	
COMS 297	Directed Study and Comprehensive Examination (Plan C: Exam) [2]	
Total Units		30

[1] Select between 12 and 18 units of graduate courses with the assistance of your advisor. Be certain these Major Courses contain a specific focus or area of concentration that can be described and explained to the Graduate Committee. Courses may be grouped into a Major and Minor area of concentration if desired. Up to six units may be taken in a related department and still be counted toward the degree.

[2] For students completing Plan A or B, no more than a total of 3 units of COMS 295 or COMS 299 may be applied to the 30-unit MA requirement. For students completing Plan C, this limit is increased to 6 units. Graduate Committee approval is required in the semester prior to enrollment for these units.

Minor in Communication Studies

Total units required for Minor: 18, 12 of which must be upper division

Program Description

Communication Studies is a broad-based discipline concerned with the exchange of messages in interpersonal and mediated situations and with the impact of such exchanges on society. Courses focus on understanding the communication process and developing skills to communicate effectively. The Department offers a wide range of courses in interpersonal, group, and organizational communication, rhetorical theory and criticism, public relations, mass communication and research methodologies.

Notes:

- Minor programs must be approved by a Department advisor.
- All 18 units in the Minor program must be Communication Studies courses.

Program Requirements

Code	Title	Units
COMS 100A	Survey of Communication Studies [1]	3

No more than a total of 3 units of the following can be applied to the Minor.

Code	Title	Units
COMS 110	Advanced Debate Workshop	1
COMS 111	Debate Research Practicum	3
COMS 195	Internship in Communication Studies	1 - 6
COMS 199	Special Problems	1 - 3

[1] Grade of 'C-' or better required

Minor in Digital Communication and Information

Total units required for Minor: 18

Program Description

Communication Studies is a broad-based discipline concerned with the exchange of messages in interpersonal and mediated situations and with the impact of such exchanges on society. Courses focus on understanding the communication process and developing skills to communicate effectively. The Department offers a wide range of courses in interpersonal, group, and organizational communication, rhetorical theory and criticism, public relations, mass communication and research methodologies.

Program Requirements

Code	Title	Units
Required Upper Division Core Courses (18 Units)		
COMS 101	Information Management and Privacy	3
COMS 106	Digital Media Creation - An Introduction	3
COMS 117	Multimedia Communication	3

COMS 140	Online Collaboration	3
COMS 190	Human Communication on the Internet	3
COMS 191	New Media and Society	3
Total Units		18

Film

Department of Communication Studies

Program Description

The Film Program offers interdisciplinary coursework in the areas of film production, history, theory, criticism, and writing. The Film major aims at developing a deeper understanding of the art and practice of film, its complex components, and the artists whose vision have inspired generations of filmmakers. All students are required to take a common core that provides a foundation for film criticism and production. After completing the core, students select either the film studies or film production track. Students are supervised by the Film Coordinator.

Degree Programs

BA in Film (Digital Film/Video Production) (p. 152)

BA in Film (Film Studies) (p. 154)

Minor in Film Studies (p. 155)

Career Possibilities

Videographer · Cinematographer · Production Coordinator · Production Assistant · Lighting Designer · Gaffer · Grip · Film/Video Director · Production Sound Mixer · Sound Editor · Screenwriter · Script Supervisor · Video Editor · Effects Editor · Independent Filmmaker · Film Critic

Contact Information

Dan Janos, Film Coordinator
Mendocino Hall 5027
(916) 278-6415
Film Program Website (http://www.al.csus.edu/film/)

Faculty

ANKER, ANDREW

BUSS, STEVE

BUCKMAN, ALYSON

CRAFT, GEORGE

DONATH, JACKIE

FOSS-SNOWDEN, MICHELE

GEIGER, JASON

JANOS, DAN

KASIC, KATHY

POMO, ROBERTO

RICE, DOUG

STARK, JENNY

WILLIAMS, BRETT (SAMUEL)

FILM 20A. Audio Production. 2 Units
Corequisite(s): FILM 20B.
Term Typically Offered: Fall, Spring

Introduction to the theory and practice of audio production in radio, television, film and recording applications.
Cross-listed: COMS 20A.

FILM 20B. Audio Production Lab. 1 Unit
Corequisite(s): FILM 20A.
Term Typically Offered: Fall, Spring

Experience in audio console operation, microphone selection and use, and audio recording in radio, television, film and recording applications.
Cross-listed: COMS 20B.

FILM 27A. Digital Film/Video Production. 2 Units
Corequisite(s): FILM 27B.
Term Typically Offered: Fall, Spring

Introduction to the techniques and aesthetics of digital film making. The course covers camera technique and cinematography.
Cross-listed: COMS 27A.

FILM 27B. Digital Film/Video Production Lab. 1 Unit
Corequisite(s): FILM 27A.
Term Typically Offered: Fall, Spring

Introduction to the techniques and aesthetics of digital film making. The course covers camera angles, basic lighting, framing, and non-linear editing techniques.
Cross-listed: COMS 27B.

FILM 97. Introduction to Film Studies. 3 Units
Term Typically Offered: Fall, Spring

Examines cinematic techniques, styles, vocabulary, and discourses. Introduces different ways for writing about films and for working with a variety of cinematic terms. Film form and style will be studied by examining specific scenes in films from different genres, nations, and directors. Film used throughout the course will be selected from different historical periods.
Cross-listed: ENGL 97.

FILM 105. Film Theory and Criticism. 3 Units
Term Typically Offered: Fall, Spring

Survey of film theory focusing on Auteurism, Class, Expressionism, Formalism, Genre, Gender, Narratology, Neorealism, Phenomonology, Post-Structuralism, Psychoanalysis, Realism, Semiology, Structuralism, and Third Cinema.
Cross-listed: ENGL 105.

FILM 121. Media Aesthetics. 3 Units
Term Typically Offered: Fall, Spring

Overview and analysis of the primary aesthetic tools used to create messages in video and film. The basic properties of light, color, area, space, shape, sound, time and motion are defined and discussed as they relate to media production. Introduces students to the concepts and vocabulary necessary for effectively conceiving, producing or criticizing mediated messages. Designed primarily for students with interest in digital media. Provides a foundation for students working in media criticism.
Cross-listed: COMS 121.

FILM 124. Writing Scripts for Film/Video. 3 Units
Prerequisite(s): ENGL 1A and ENGL 20.
Term Typically Offered: Fall, Spring

Developing narratives, documentaries, educational, promotional, and experimental short screenplays. Students are expected to develop a writing style and master screenwriting and audio/visual scripting formats. Scripts will be developed to be produced in advanced production courses: COMS/FILM 128 and COMS/FILM 185.
Cross-listed: COMS 124.

FILM 124F. Avant-Garde Film. 3 Units
Prerequisite(s): ENGL 97 or PHOT 102.
Term Typically Offered: Spring only

A survey of experimental films from the beginning of the cinema in the 1890s through today's avant garde. The course will emphasise film making as a means of personal, artistic expression and will pay particular attention to those aspects of cinema that are typically ignored or marginalized in mainstream Hollywood movies. Films we will study include those by: Melies, Porter, Richter, Leger, Cornell, Deren, Brackhage and Gehr.
Cross-Listed: INTD 124F.

FILM 128. Non-Studio Video Production. 3 Units
Prerequisite(s): FILM 20A, FILM 20B, FILM 27A and FILM 27B each with a grade of 'B-' or better.
Term Typically Offered: Fall, Spring

Production of video materials using portable cameras and recorders. Application of electronic field production and post-production techniques.
Cross-listed: COMS 128.

FILM 129. Film and Video Production Management. 3 Units
Term Typically Offered: Spring only

Management and administration of the preproduction and production process. Course to include script breakdown, budgeting, scheduling, and other preproduction and production management skills needed for film and video production. Special attention on the history, development and current practices of the Production Manager.
Cross-listed: COMS 129.

FILM 130. Staging and Lighting Digital Video. 3 Units
Prerequisite(s): FILM 20A, FILM 20B, FILM 27A and FILM 27B each with a grade of 'B-' or better.
Term Typically Offered: Fall, Spring

Introduction to the aesthetics, concepts and techniques used to control lighting in digital video productions. Aspects of staging, blocking and composition in the context of studio and location lighting.
Cross-listed: COMS 130.

FILM 141. Theory of Film/Video Editing. 3 Units
Prerequisite(s): COMS/FILM 27A and COMS/FILM 27B with final posted grade of C or better.
Term Typically Offered: Fall, Spring

Study of history and theory of film and video editing. Many films are viewed and discussed, examining how editing theory is put into practice.
Cross-listed: COMS 141.

FILM 155. Contemporary World Cinema. 3 Units
Term Typically Offered: Fall, Spring

A historical review of the development of major international film styles and themes. Theoretical and critical concepts derived from this study of international film and then used as the basis to analyze contemporary films of South America, Europe, India, East Asia, Africa and the Middle East. Emphasis is on both the development of formal film techniques and a comparison of the unique cultural values that shape the film narrative style.
Cross Listed: THEA 155; only one may be counted for credit.

FILM 185. Senior Practicum in Video Production. 3 Units
Prerequisite(s): COMS/FILM 124 with a final posted grade of C or better; COMS/FILM 128 with a final posted grade of C or better.
Term Typically Offered: Fall, Spring

Assignments in various phases of video production including creative use of camera, sound and lighting, editing, production design, production planning/management, and directing.
Cross-listed: COMS 185.

FILM 192. Senior Seminar in Film. 3 Units
Prerequisite(s): Completion of the Film Studies upper and lower division core or COMS 142, and (GWAR Certification before Fall 09, or WPJ score of 80+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Spring only

Research seminar that provides an in-depth investigation of film as an art form, a medium of mass communication and a means of personal expression. Subject will vary according to instructor.
Cross-listed: COMS 192.

BA in Film (Digital Film/Video Production)

Units required for Major: 46
Total units required for BA: 120

Program Description

The Film Program offers interdisciplinary coursework in the areas of film production, history, theory, criticism, and writing. The Film major aims at developing a deeper understanding of the art and practice of film, its complex components, and the artists whose vision have inspired

generations of filmmakers. All students are required to take a common core that provides a foundation for film criticism and production. After completing the core, students select either the film studies or film production track. Students are supervised by the Film Coordinator.

Program Requirements

Code	Title	Units
Lower Division Core Courses (9 Units)		
FILM/COMS 20A	Audio Production	2
FILM/COMS 20B	Audio Production Lab	1
FILM/COMS 27A	Digital Film/Video Production	2
FILM/COMS 27B	Digital Film/Video Production Lab	1
FILM/ENGL 97	Introduction to Film Studies	3
Upper Division Core Courses (18 Units)		
THEA 155	Contemporary World Cinema	3
COMS 133	The Documentary Film	3
FILM/ENGL 105	Film Theory and Criticism	3
FILM/COMS 121	Media Aesthetics	3
FILM/COMS 128	Non-Studio Video Production	3
HIST/HRS 169	Hollywood and America [1]	3
Option Requirements (18 Units)		
Select one of the options below:		18
Option A: Digital Film/Video Production		
Option B: Film Studies		
Total Units		45

Option A: Digital Film/Video Production (18 units)

Code	Title	Units
Area Requirements (12 Units)		
FILM/COMS 124	Writing Scripts for Film/Video	3
FILM/COMS 128	Non-Studio Video Production	3
Select two of the following:		6
COMS 126	Motion Graphics in Film and Video	
COMS 127	Producing and Directing for Television	
COMS 157	Video Art	
or ART 147	Video Art	
FILM/COMS 129	Film and Video Production Management	
FILM/COMS 130	Staging and Lighting Digital Video	
FILM/COMS 141	Theory of Film/Video Editing	
Capstone Courses (3 Units) [2]		
FILM/COMS 185	Senior Practicum in Video Production [3]	3
Electives (3 Units)		
Select 3 units in consultation with your major advisor		3
Total Units		18

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] During the first semester of the capstone experience students will be required to serve as crew members of a production team. Students taking the class twice will be given the option of directing a video.

[3] This course may be repeated once for credit.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (9 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		46

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3

Race and Ethnicity in American Society (RE)	3
Foreign Language Proficiency Requirement [2]	6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BA in Film (Film Studies)

Total units required for Major: 46
Total units required for BA: 120

Program Description

The Film Program offers interdisciplinary coursework in the areas of film production, history, theory, criticism, and writing. The Film major aims at developing a deeper understanding of the art and practice of film, its complex components, and the artists whose vision have inspired generations of filmmakers. All students are required to take a common core that provides a foundation for film criticism and production. After completing the core, students select either the film studies or film production track. Students are supervised by the Film Coordinator.

Program Requirements

Code	Title	Units
Lower Division Core Courses (9 Units)		
FILM/COMS 20A	Audio Production	2
FILM/COMS 20B	Audio Production Lab	1
FILM/COMS 27A	Digital Film/Video Production	2
FILM/COMS 27B	Digital Film/Video Production Lab	1
FILM/ENGL 97	Introduction to Film Studies	3
Upper Division Core Courses (18 Units)		
THEA 155	Contemporary World Cinema	3
COMS 133	The Documentary Film	3
FILM/ENGL 105	Film Theory and Criticism	3
FILM/COMS 121	Media Aesthetics	3
FILM/COMS 128	Non-Studio Video Production	3
HIST/HRS 169	Hollywood and America [1]	3
Option Requirements (18 Units)		
Select one of the options below:		18
Option A: Digital Film/Video Production		
Option B: Film Studies		
Total Units		45

Option B: Film Studies (18 units)

Code	Title	Units
Concentration Requirements (3 Units)		
Select one of the following:		3
ART 147/ COMS 157	Video Art	
FILM/COMS 129	Film and Video Production Management	
FILM/COMS 130	Staging and Lighting Digital Video	
FILM/COMS 141	Theory of Film/Video Editing	
Capstone Course (3 Units)		
FILM/COMS 192	Senior Seminar in Film	3
Electives (12 Units)		
Select 12 units in consultation with your major advisor		12
Total Units		18

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (9 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		46

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

Minor in Film

Units required for Minor: 18

Program Description

The Film Studies minor emphasizes coursework and independent study in the areas of film appreciation, history, theory, and criticism and writing within the context of a liberal arts tradition. The Film Studies curriculum includes upper division classes offered by the Departments of Art, Communication Studies, English, Foreign Languages, History, Humanities and Religious Studies, and Theatre and Dance. The Film Studies minor is supervised by the Film Studies Coordinator.

Program Requirements

Code	Title	Units
Lower Division Courses (3 Units)		
THEA 5	Aesthetics of Theatre and Film	3
Upper Division Courses (15-18 Units)		
FILM/ENGL 105	Film Theory and Criticism	3
HRS 180	The Film	3
Select 9-12 units from the following electives:		9 - 12
ART 191	Film as an Art Form	
ASIA/HIST 140	Modern East Asian Cinema	
FILM/COMS 121	Media Aesthetics	
FILM/COMS 129	Film and Video Production Management	
COMS 142	Film As Communication	
ENGL 130F	Writing For Television	
ENGL 191A	Masterpieces of the Cinema	
ENGL 197G	Films of Great Directors	
ENGL 197K	Fiction Into Film	
ENGL 197M	Recent American Films	
HIST/HRS 169	Hollywood and America	
HRS 181	Contemporary Issues in Film	
HRS 183	World Religions and Cultures in Cinema	
HRS 185	Women in Film and American Culture	
INTD 124E	Film/Design	
THEA 106	Latin American Film	
THEA 175	Multicultural Perspectives in American Film	
Total Units		18-21

Journalism

Department of Communication Studies

Program Description

The Sacramento State Journalism program provides both a general academic experience and professional preparation. Sacramento's program emphasizes writing, editing, writing for interactive media, and other courses necessary to prepare students for success in media-related jobs; it also includes courses that critically examine media as an institution.

Journalism majors are the core of students who write for *The State Hornet* a weekly newspaper with a website updated daily at The State Hornet's Website (http://www.statehornet.com).

A student at Sacramento State may major either in Journalism or in Political Science-Journalism. A minor in Journalism is valuable to the student entering a career field in which journalism plays a role.

The Journalism graduate who wants to work for a newspaper should expect to serve an apprenticeship with a small newspaper before moving up to a metropolitan daily. Journalism graduates also work as magazine editors and writers, as publications employees in government agencies and associations, in broadcast journalism, and in public affairs.

Degree Programs

BA in Journalism (p. 159)

BA in Political Science/Journalism (p. 158)

Minor in Journalism (p. 161)

Special Features

- The location of Sacramento State in the state's capital provides uncommon advantages for the student interested in journalism. Many students take internships with state agencies or news operations that provide both experience and opportunities unlikely to be found elsewhere.
- Sacramento State offers the only Political Science-Journalism degree program in the nation, tailored to take advantage of the Department's location at the hub of state politics. The Department has more than 100 internships available to upper-division journalism majors.
- Journalism majors have the opportunity to take classes from both Department faculty and community journalists. The full-time faculty are practicing professionals who contribute regularly to publications on a freelance basis. Good use is also made of professionals from the area media both as guest lecturers and as part-time instructors.

- The University's association with the Washington Center makes it possible for CSU Sacramento students to undertake internships in Washington, D.C. There are many opportunities for Political Science/Journalism majors to do an internship to meet their unique interests through this program.

Career Possibilities

Reporter · Editor · Columnist · Editorial Writer · Magazine Writer · Speech Writer · Correspondent · Public Affairs Manager · Legislative Assistant · Press Relations Officer · Public Information Specialist · Technical Writer/Editor · Broadcast Journalist · News Director · Disc Jockey · News Producer · Online Journalist

Contact Information

Gerri Smith, Department Chair
Katrina Roose, Administrative Support Coordinator II
Mendocino Hall 5014
(916) 278-6688
Department of Communication Studies Website (http://www.asn.csus.edu/coms/)

Faculty

DUGAN, MOLLY

HUMPHREY, ROBERT

LUDWIG, MARK

VANAIRSBALE, STU

JOUR 20. Style For Media Writers. 1 Unit
Term Typically Offered: Fall, Spring

Intensive review of grammar, word use, spelling, and principles of clear, concise writing.
Credit/No Credit

JOUR 30. News Writing. 3 Units
Corequisite(s): JOUR 20.
Term Typically Offered: Fall, Spring

Fundamentals of news gathering and news writing. Emphasis on language and style used in feature and news stories.
Note: Computer familiarity (MAC-OS) recommended.

JOUR 50. Media Literacy and Critical Thinking. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Introduction to reasoning skills useful to the journalism major and general education student alike in interpreting and judging information, entertainment and advertising in the mass media. Emphasis on how to assess the quality of news as information, and on how to think critically about the effects of mass-produced culture.

JOUR 55. Media Communication and Society. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the basic concepts of mass communication, including the effects, uses, and functions associated with the goods and services of mass media. Examination of the ways mass media combine with other institutions to affect the organization, design, and comprehension of communication messages, as well as political thought, cultural beliefs, and economic behavior.
Cross Listed: COMS 55; only one may be counted for credit.

JOUR 116. Data Visualization. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Spring, Summer

Instruction in visualizing datasets using charts, graphs and maps. Students will use spreadsheets to analyze data, along with software and online applications to create data visualizations. Emphasis on visualizations for business, academia and journalism.

JOUR 120. History Of The Media. 3 Units
Prerequisite(s): COMS 55/JOUR 55 or equivalent; may be taken concurrently with prerequisite.
Term Typically Offered: Fall, Spring

Examination of development of major media of mass communication in the U.S. and how the economics, content, regulation and audience use of the media have been affected by the way the media have evolved. Current issues and trends are discussed, as well as possible future development.
Cross Listed: COMS 120; only one may be counted for credit.

JOUR 123. Writing for Public Relations. 3 Units
Prerequisite(s): JOUR 30; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
Term Typically Offered: Fall, Spring, Summer

Organization and operation of communication media; practice in publicity and public relations techniques. Emphasis on clear writing and correct public relations formats such as releases, PSAs, articles, and speeches.
Note: Computer familiarity (MAC-OS) recommended. Cross listed: COMS 123

JOUR 125. Multimedia Storytelling. 3 Units
Prerequisite(s): JOUR 30
Term Typically Offered: Fall, Spring

Principles and techniques of reporting and writing news for radio, television, podcasts, social media, and other emerging media platforms. Field and laboratory experience, including basic multimedia story production.

JOUR 128. News Editing. 3 Units
Prerequisite(s): JOUR 20, JOUR 30.
Term Typically Offered: Fall, Spring

Introduction to the role of the editor in contemporary news production. Instruction in story assigning and digital editing, headline/caption writing, photo/visual selection, identifying story treatments, and web tools including search engine optimization and audience analytics. Lab sessions include story/copy editing, fact-checking exercises, headline/caption writing, photo/visual selection, analysis and application of audience metrics in story assignments, and other editorial work.

JOUR 130A. News Reporting I. 3 Units
Prerequisite(s): JOUR 20, JOUR 30.
Corequisite(s): JOUR 130B.
Term Typically Offered: Fall, Spring

Instruction and practice in journalistic research, interviewing, and reporting skills.
Note: Computer familiarity (MAC-OS) recommended.

JOUR 130B. News Reporting II. 3 Units
Prerequisite(s): JOUR 30.
Corequisite(s): JOUR 130A.
Term Typically Offered: Fall, Spring

Practice in covering a news beat, producing news and feature stories on a weekly basis. Instruction includes reporting on local government.

JOUR 131. Data Journalism. 3 Units
Prerequisite(s): JOUR 30; may be taken concurrently.
Term Typically Offered: Fall, Spring

Instruction and practice in finding, analyzing, visualizing and using data for journalism.

JOUR 132. Digital Magazine. 3 Units
Prerequisite(s): JOUR 30 or instructor permission.
Term Typically Offered: Fall, Spring

Conceiving, reporting, and writing feature articles for magazines in print and online. In addition to improving writing skills, students will learn how to identify freelance opportunities, pitch stories, analyze published work, and produce articles for a digital magazine published by the class.

JOUR 134. War, Peace and the Mass Media. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring, Summer

Concerned with the relationship of mass media to war and the possibilities for peace, with emphasis on recent concepts of political communication.
Cross Listed: GOVT 134; only one may be counted for credit.

JOUR 135. Public Affairs Reporting. 3 Units
Prerequisite(s): JOUR 20, JOUR 30, JOUR 130A, JOUR 130B; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Preparation and practice for covering California issues, with a focus on state government and investigative reporting techniques. Culminates with a final project.

JOUR 153. Journalism Law and Ethics. 3 Units
Term Typically Offered: Fall, Spring

Examines the laws, regulations, and ethical principles that govern print, broadcast, and electronic journalism in the U.S. The process by which laws and regulation are enacted and interpreted and the development of socially responsible journalistic practice are discussed.
Cross Listed: COMS 153; only one may be counted for credit

JOUR 158. Public Relations Planning and Management. 3 Units
Prerequisite(s): COMS 118 and JOUR 123 or COMS 123 with grade of 'C-' or better.
Term Typically Offered: Fall, Spring

Application of theoretical concepts to the solution of problems for pre-selected non-profit and campus clients by forming small group PR agencies; completing needs assessments; profiling target and secondary audiences; developing and implementing a strategic public relations plan; producing targeted messages for media kits and other uses; developing and evaluating formative and summative evaluation plans; and making formal in-class presentations to peers, clients and invited PR professionals. Students will also learn how to negotiate contracts, maintain client relations, track work on projects and develop timelines and budgets.
Cross Listed: COMS 158; only one may be counted for credit.

JOUR 172. Women in the Mass Media. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Examination of women's role in the mass media, with particular emphasis on news reporting and advertising. Includes discussion of women's role in media industries. Culminates in a final project.

JOUR 175. Minorities, Social Change and the Press. 3 Units
Term Typically Offered: Fall only

Examination of the relationship between historically underrepresented groups and the news media. Provides a critical analysis and discussion of the role played by the news media in racial, cultural, and social change in the U.S. and explores how the news media can create a more pluralistic society.

JOUR 193. The Media Business. 3 Units
Term Typically Offered: Fall, Spring

Examination of business models and concepts influencing the contemporary news media industry. Study the traditional financial structures of media publications, evaluate opportunities in media entrepreneurship and develop business plans for publications.

JOUR 194. Journalism Related Work Experience. 3 - 6 Units
Term Typically Offered: Fall, Spring

Supervised employment in a company or agency working on journalism-related assignments, arranged through the Department of Communication Studies and the Cooperative Education Program office. Requires preparation of application packet, completion of a 6 month full-time or part-time work assignment, and a written report.
Note: Open only to upper division or graduate students with appropriate course preparation. Units MAY NOT be used to meet the Journalism major or minor. Consent of Communication Studies Department advisor required. No more than 12 units will count toward the degree.

Credit/No Credit

JOUR 195. Internship In Journalism. 1 - 6 Units
Prerequisite(s): JOUR 130A, JOUR 130B and minimum 2.3 overall GPA.
Term Typically Offered: Fall, Spring

Directed work experience through the internship program with public agencies or with journalistic publications, organizations or agencies. Supervision is provided by both the instructional staff and the cooperating agency.
Note: Student must make arrangements with the internship coordinator upon admittance to the course. Limited to Journalism majors and minors and Government-Journalism majors. No more than six units of JOUR 195 may be counted toward the Journalism major.

Credit/No Credit

JOUR 196. Experimental Offerings in Journalism. 3 Units
Term Typically Offered: Fall, Spring

One time and new classes in journalism will be scheduled as needed. 2.0 - 3.0 units

JOUR 196S. Writing for Sports Media. 3 Units
Prerequisite(s): JOUR 30.
Term Typically Offered: Fall, Spring

Fundamentals of gathering, organizing, evaluating and writing sports information in accepted professional style across news media and media relations platforms.

JOUR 197. Journalism Laboratory. 3 Units
Term Typically Offered: Fall, Spring

Working as a staff member of the State Hornet news organization. Roles and responsibilities may include writing, reporting, photography, editing, audio/video production, web layout and design, promotions, marketing, distribution, and/or media business management.
Note: Journalism majors are required to take either JOUR 197A, JOUR 197B, or JOUR 195 Pre-requisite

JOUR 197A. Journalism Laboratory. 3 Units
Prerequisite(s): JOUR 30.
Term Typically Offered: Fall, Spring

Working as a staff member of the State Hornet Newspaper as a writer, photographer, graphic designer or advertising salesperson.
Note: Journalism majors are required to take either JOUR 197A, JOUR 197B, or JOUR 195.

JOUR 199. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual projects or directed reading open to students who wish to attempt independent work. Faculty approval required.
Note: Journalism majors or minors may submit no more than 6 units of JOUR 199 and JOUR 299 toward their degrees.

Credit/No Credit

JOUR 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who are competent to carry on individual work.
Note: Departmental petition required. Journalism majors or minors may submit no more than 6 units of JOUR 199 and 299 toward their degrees.

Credit/No Credit

BA in Political Science and Journalism

Units required for Major: 51
Total units required for BA: 120

Program Description

A unique interdisciplinary program that spans the combined areas of Political Science and Journalism.

The University's association with the Washington Center makes it possible for California State University, Sacramento students to undertake an internship in Washington, D.C. There are many opportunities for Government-Journalism majors to do an internship to meet their unique interests through this program.

Note: Political Science and Journalism majors should have both an advisor in the Political Science Department and a Journalism Advisor in the Communication Studies Department.

Minimum Grade Requirement

Majors must complete each required lower and upper division Journalism course with a grade of 'C-' or better.

Program Requirements

Code	Title	Units
Required Lower Division Courses (9 Units)		
POLS 1	Essentials Of Government [1,2]	3
JOUR 30	News Writing	3
JOUR/COMS 55	Media Communication and Society	3
or JOUR 50	Media Literacy and Critical Thinking	
Required Upper Division Courses (33 Units)		
Political Science		
POLS 170	Public Policy Development	3
POLS 180	California State and Local Government [2]	3
Select one of the following:		3
POLS 153	The American Presidency	
POLS 154	Political Parties in America	
POLS 155	The Legislative Process	
POLS 156	Interest Groups	
POLS 157	Politics, Opinion, and Participation	
POLS 159A	Campaigns and Elections	
POLS 184	Introduction to Urban Politics	
Select one of the following:		3
POLS 120A	Constitutional Law	
POLS 120B	Constitutional Rights and Liberties	
Select one of the following:		3

POLS 130	International Politics	
POLS 131	International Organization	
POLS 135	American Foreign Policy	
Journalism		
JOUR 130A	News Reporting I	3
JOUR 130B	News Reporting II	3
JOUR/POLS 134	War, Peace and the Mass Media [2]	3
JOUR 135	Public Affairs Reporting [2]	3
JOUR/COMS 153	Journalism Law and Ethics	3
Internship		
Select one of the following:		3
POLS 195	Internship Course	
JOUR 195	Internship In Journalism	
Electives (9 Units)		
Select 6 units of upper division courses in Political Science [3]		6
Select one upper division course in Journalism		3
Total Units		51

1. If a student has not taken POLS 1 or its equivalent, then POLS 150 may be used in place of POLS 1 or as its equivalent as a prerequisite.
2. Course also satisfies General Education (GE)/Graduation Requirement.
3. The Department of Political Science particularly recommends at least one course in political theory.
Note: POLS 150 may not be used as an elective.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course [2]		0
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Journalism

Units required for Major: 40
Total units required for BA: 120

Program Description

The Sacramento State Journalism program educates its students in ethical, accurate, and compassionate storytelling. We engage our community using new technology and innovative methods in order to enlighten the public and monitor the powerful. Our students become committed and versatile professionals with a strong background in both journalism theory and practice.

Sacramento State's program emphasizes research, writing and editing for interactive media, and other courses necessary to prepare students for success in media-related jobs; it also includes courses that critically examine media as an institution.

Journalism majors write The State Hornet (https://statehornet.com/), a weekly print newspaper and daily multimedia publication.

A journalism degree prepares students for a variety of careers and graduate studies. Graduates work as journalists in a diverse range of media, as public relations representatives, and as communications staff for government agencies, non-profits, and other organizations.

Pre-Major to Journalism

Prior to acceptance as a Journalism major, students must first complete a pre-major consisting of all required lower division courses plus JOUR 130A and JOUR 130B. Students must successfully complete each pre-major courses with a 'C-' or better.

Students with a Sacramento State grade point average of 2.3 or better may request early admission to the major.

Code	Title	Units
Required Pre-Major Courses (13 Units)		
JOUR 20	Style For Media Writers	1
JOUR 30	News Writing	3
JOUR/COMS 55	Media Communication and Society	3
or JOUR 50	Media Literacy and Critical Thinking	
JOUR 130A	News Reporting I	3
JOUR 130B	News Reporting II	3

Minimum Grade Requirement

Majors must complete each required lower and upper division course with a grade of 'C-' or better.

Program Requirements

Code	Title	Units
Required Lower Division Courses (7 Units)		
JOUR 20	Style For Media Writers	1
JOUR 30	News Writing	3
JOUR/COMS 55	Media Communication and Society [1]	3
or JOUR 50	Media Literacy and Critical Thinking	
Required Upper Division Courses (21 Units)		
JOUR 128	News Editing	3
JOUR 130A	News Reporting I	3
JOUR 130B	News Reporting II	3
JOUR 131	Data Journalism	3
JOUR 135	Public Affairs Reporting [1]	3
JOUR/COMS 153	Journalism Law and Ethics	3
Select one of the following:		3
JOUR 195	Internship In Journalism	
JOUR 197	Journalism Laboratory (New Course Proposed)	
Electives (12 Units)		
Select 12 units [2]		12
Total Units		40

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Elective units chosen in consultation with an advisor from among Journalism faculty. At least 9 of the 12 units must be upper division. No more than a total of six units in JOUR 195, JOUR 197, **OR** JOUR 199 combined may be counted toward the Journalism or Government-Journalism major.

Note: Up to 6 units of coursework from photography or graphic design may be applied toward a major or minor in Journalism with approval of a Journalism advisor.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6-9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking [2,3]		0 - 3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43-46

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students an 'OR' option for JOUR 55 and JOUR 50:

- If student chooses to take JOUR 55 or COMS 55, they will not meet any area of General Education.
- If student chooses to take JOUR 50, they will meet Area A3.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Minor in Journalism

Units required for Minor: 21

Program Description

The Sacramento State Journalism program provides both a general academic experience and professional preparation. Sacramento's program emphasizes writing, editing, writing for interactive media, and other courses necessary to prepare students for success in media-related jobs; it also includes courses that critically examine media as an institution.

Journalism majors are the core of students who write for *The State Hornet,* a weekly newspaper with a website updated daily at www.statehornet.com (http://www.statehornet.com/).

A student at Sacramento State may major either in Journalism or in Government-Journalism. A minor in Journalism is valuable to the student entering a career field in which journalism plays a role.

The Journalism graduate who wants to work for a newspaper should expect to serve an apprenticeship with a small newspaper before moving up to a metropolitan daily. Journalism graduates also work as magazine editors and writers, as publications employees in government agencies and associations, in broadcast journalism, and in public affairs.

Program Requirements

Code	Title	Units
Required Courses (9 Units)		
JOUR 30	News Writing	3
JOUR/COMS 55	Media Communication and Society	3
JOUR 153	Journalism Law and Ethics	3
Electives (12 Units)		
Select 12 additional units of upper division elective courses [1]		12
Total Units		21

1. No more than 3 units may be from JOUR 195, JOUR 197A, or JOUR 199.

Design

College of Arts and Letters

Program Description

The Department of Design is part of the School of the Arts, within the College of Arts and Letters. The Department prepares its students for a wide range of career opportunities in the fields of Graphic Design, Interior Design, and Photography. Our graduates are trained to work creatively and to explore new possibilities in their respective media while at the same time providing the highest quality of professional services to their clients.

The Department of Design recognizes that the environments in which we live and work are shaped by an ever-increasing quantity of visual information. This information, in the form of two and three dimensional images, comes to us from a variety of sources that utilize both traditional and technologically advanced modes of visual communication. To a greater extent than at any other point in our history, artists and designers are dissolving the boundaries between two and three dimensional visualization.

The Department of Design is well positioned to respond to the multifaceted nature of today's visual arts. By offering degree programs in Graphic Design, Interior Design, and Photography we are able to train our students in a wide range of visual and design practices that play a part in creating our built environment. Students in the Department typically take a group of core courses that introduces them to a vocabulary of shared visual concepts and techniques before moving on to advanced study in their selected field.

The Department of Design offers a Bachelor of Arts in Photography and Interior Design, and a Bachelor of Science in Graphic Design. Programs in the Department are accredited by the National Association of Schools of Art and (NASAD).

Programs

BA in Design Studies

Graphic Design (p. 162)

Interior Design (p. 167)

Photography (p. 169)

Contact Information

John P. Forrest, Chair
Rhonda Franks, Administrative Support Coordinator
Mariposa Hall 5001
(916) 278-3962
FAX (916) 278-6116
Department of Design Website (http://www.csus.edu/design/)

Faculty

ANKER, ANDREW K.

DERTINGER, DOUG

DUFF, MICHELLE

ESTIOKO, MARIO

FORREST, JOHN

GIBBS, CAROLYN

PARK, MYUNG

POOR, NIGEL

PRATT, RICHARD

SHEPARD, NICHOLAS

BA in Design Studies

Units required for Major: 48
Minimum units required for BA: 120

Program Description

The Bachelor of Arts in Design Studies is intended for students who are interested in understanding the role of design and material culture within a broad social, political and cultural discourse. The program takes as its formative assumption that design is everywhere, from the smallest objects around us to the cities and landscapes we inhabit, and, that along with visual images, constitutes a vital language with which we as a society express our values and desires.

Design Studies graduates will be prepared for career opportunities as researchers and administrators in the design field, working with private and public agencies. Graduates will also be academically prepared to enter M.A. and Ph.D. programs in design studies or design history.

Program Requirements

Code	Title	Units
Required Lower Division Design Core Courses (21 Units)		
DSGN 4	Design and Thinking	3
GPHD 20	History Of Graphic Design	3
GPHD 25	Visual Basics	3
INTD 20	Design	3
INTD 25	Design Fundamentals	3
PHOT 11	Digital Imaging	3
PHOT 20	The Photographic Self	3
Required Lower Division Art/Design Elective (3 Units)		
Select one of the following:		3
ART 1A	Art, Religions, and Power before 1400	
ART 1B	Art in the Western World: From Renaissance to Baroque	
ART 1C	Global Modern and Contemporary Art	
ART 2	History of Islamic Art	
ART 3A	Traditional Asian Art	
ART 3B	Modern and Contemporary Asian Art	
ART 5	Art of the Americas	
Required Upper Division Courses (21 Units)		
DSGN 101	World Design and Visual Culture	3
HIST 100	Introduction to Historical Skills	3
INTD 123	Survey of Western Architecture and Interiors	3
INTD 124A	American Design	3
INTD 125	Urban Design and Society	3
PHOT 101	Photography, Inception to Mid-Century	3
PHOT 102	Photography, a Social History	3
Required Upper Division Elective (3 Units)		
Select one of the following:		3
ART 109	Modern Art	
ART 110	US and Caribbean Art: Race and Representation	
ART 111	Latin American and Latino Art History	
ART 112	Contemporary Art	
ART 113B	Asian Art and Mythology	
ART 118B	California Architecture and Urban History	
HRS 168	Images Of America	
INTD 124D	Principles of House Design	
INTD 124E	Film/Design	
Total Units		48

Graphic Design

College of Arts and Letters, Department of Design

Program Description

The curriculum in the Graphic Design program at California State University, Sacramento has been developed to prepare students for professional practice and/or preparation for admission to graduate level study.

The Graphic Design program is part of the Department of Design which houses majors Interior Design and Photography. This combination provides a unique collection of disciplines and broadens the student's exposure to professions they will potentially be working with in the future.

The course of study is a layered exploration that starts with fundamental principles of visual communication paired with an intensive introduction to the creative process. Each successive layer builds in complexity to encompass technical, conceptual, and research challenges that culminates with a series of classes devoted to professional practice. Historical perspective and ethical concerns are addressed throughout the curriculum. The programs goal is to provide the community with a comprehensive visual problem solver that has a strong aesthetic ability coupled with a clear understanding of the strategic and conceptual challenges facing them in practice.

Degree Program

BFA in Graphic Design (p. 165)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Graphic Design is also individually accredited by the National Association of Schools of Art and Design.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

All of the faculty in the Graphic Design program have diverse and extensive expertise in the field and continue to work in the profession. Exhibitions and lectures by nationally recognized designers, field trips, and guest instruction add further exposure to professional practice and methodology. Students have been recognized in national competitions, as well as community and campus exhibitions.

Work experience is highly valued in the field of graphic design, and internships, for academic credit, provide students with practical, hands-on experience. Faculty members are instrumental in coordinating a wide range of student internships at highly respected firms and organizations throughout the region. Service learning is also a strong component of hands-on opportunities available through the program.

Graphic Design majors form an active student group called G.R.I.D.S (Graphic Resources and Information Design Students). This group is also a student chapter of the AIGA the professional association for design. Students meet regularly and organize workshops, field trips, and lectures. These activities increase understanding of and exposure to the graphic design field. G.R.I.D.S also provides internal networking opportunities that offers members support as they pursue their studies in design.

Being located in California's capital city, California State University, Sacramento offers a wealth of cultural, professional, and employment opportunities. Graduates from the Graphic Design program at Sacramento State have secured positions in design and multimedia firms, advertising agencies, and major corporations.

Career Possibilities

Advertising Designer · Brand Designer · Broadcast Designer · In-house Corporate Designer · Identity Designer · Information Architect · Multimedia Designer · Packaging Designer · Prepress Technician · Print Designer · Production Artist · Project Manager · Publication Designer · Signage Designer · Type Designer · Web Designer

Contact Information

Andrew Anker, Chair, Department of Design
Richard Pratt, Program Coordinator
Rhonda Franks, Administrative Support Coordinator
Mariposa Hall 5001
(916) 278-3962
FAX (916) 278-6116
Graphic Design Program Website (http://www.al.csus.edu/design/gphd.html)

Faculty

ESTIOKO, MARIO

FORREST, JOHN

PARK, MYUNG

PRATT, RICHARD

GPHD 5. Introduction to Graphic Design. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Introduction to the field of Graphic Design. Subjects include career possibilities, current trends, issues and practices in the industry. The basic theory, techniques and practices involved in solving a visual communication problem will also be introduced.

GPHD 10. Introduction to Digital Design. 3 Units
Term Typically Offered: Spring only

Designed to familiarize students with basic understanding of the digital hardware, software, and vocabulary utilized by visual artists from a variety of disciplines. Discussions and activities will cover both creative and efficient application of digital tools and techniques. Students will complete assignments utilizing a variety of applications which may include page layout, illustration, digital image processing, and 3-D rendering software.

GPHD 20. History Of Graphic Design. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Overview of the history of graphic design. Emphasis on symbol, type, and image development, from early pictographs to modern communication design.

GPHD 25. Visual Basics. 3 Units
Prerequisite(s): ART 20A or Pre - Interior Design Major.
Term Typically Offered: Fall, Spring

Provides a basic understanding of how visual structures are created and interpreted. Students study the main components of visual structures, become familiar with basic laws of color, and learn the basics of the gestalt principles of visual organization.

GPHD 30. Visual Basics II. 5 Units
Prerequisite(s): GPHD 25
Term Typically Offered: Fall, Spring

Introduction to the tools, materials and methodologies of the creative process in graphic design. Students study the main components of visual structures, become familiar with basic laws of color, and learn the basic principles of visual organization. The skill of rapid prototyping, through the processes of idea development, thumbnailing, sketching, and mockup, will be covered. Basic concepts in visual systems and graphic message making will be introduced. A special emphasis will be placed on craftsmanship in this course.

GPHD 120. Typography I. 5 Units
Prerequisite(s): DSGN 4, INTD 20, INTD 25, PHOT 20, PHOT 11, GPHD 5, GPHD 20, GPHD 25, GPHD 30, and acceptance into the major via supplemental application.
Corequisite(s): GPHD 125 Fee course.
Term Typically Offered: Fall, Spring

Explores the history and perceptual development of typography and its application in design solutions. Theoretical constructs of typography as they relate to legibility, clarity, composition and output will be addressed. Techniques using compositional layout applications will be covered with an emphasis in typographic accuracy and efficiency as well as preparation of digital files for proper output in a variety of digital and analog formats.
Fee course.

GPHD 122. Design Production and Management. 3 Units
Prerequisite(s): GPHD 5 or GPHD 20, and ART 20A, PHOT 40, GPHD 10, GPHD 20, GPHD 25, GPHD 30, and be a declared GPHD major.
Corequisite(s): GPHD 120, GPHD 125.
Term Typically Offered: Fall only

Introduction to project management techniques specific to the creative business and technical processes for graphic design. Orchestration of image editing, vector and compositing software will be covered with an emphasis in accuracy and efficiency. Various codes and regulations related to graphic design will be reviewed.

GPHD 125. Graphic Design Systems I. 5 Units
Prerequisite(s): DSGN 4, GPHD 5, GPHD 20, GPHD 25, GPHD 30, INTD 20, INTD 25, PHOT 11, PHOT 20, and acceptance into the major via supplemental application.
Corequisite(s): GPHD 120 Fee course.
Term Typically Offered: Fall, Spring

Introduction to the language and perception of design as it is applied to systems. Complex visual structures are created, used in composition and interpreted. Techniques on ideation, design thinking, storyboarding and presentation are covered. Color theory as an integral component of message is addressed. Introduction to project management techniques specific to the creative business and technical processes for graphic design.
Fee course.

GPHD 130. Typography II. 5 Units
Prerequisite(s): GPHD 120, GPHD 125.
Corequisite(s): GPHD 135. Fee course.
Term Typically Offered: Fall, Spring

Advanced typography and its relationship with message. Application of typographic principles to a diverse series of graphic design problems utilizing type and image. Techniques in using a range of digital tools to execute solutions are reviewed.
Fee course.

GPHD 135. User Interface Design. 5 Units
Prerequisite(s): GPHD 120, GPHD 125
Corequisite(s): GPHD 130
Term Typically Offered: Spring only

Emphasis is on design of a user-centered experience in an interactive environment. Enables the students to understand the characteristics of relevant technology and select appropriate forms and functions to create specific experience for users. Introduction to formative research techniques to establish context and audience and summative research techniques to determine success of screen based design solutions.

GPHD 140. User Experience Design. 5 Units
Prerequisite(s): GPHD 130, GPHD 135
Corequisite(s): GPHD 145
Term Typically Offered: Fall, Spring

Emphasis on the development of conceptual themes, formal exploration, and user-centered interaction in time-based design. Enables the students to create vital experiences using text, sound, image, motion, and interactivity. The ability to compile, use, and defend relevant formative and summative research in creation of an appropriate design solution will be covered.

GPHD 142. Advanced Graphic Design I. 3 Units
Prerequisite(s): GPHD 130, GPHD 135.
Corequisite(s): GPHD 140, GPHD 145.
Term Typically Offered: Fall, Spring

Builds on established research, process and project management techniques and provides students with the opportunity to focus on a practical investigation in design. Theoretical, professional, and historical issues facing the design profession will be reviewed. Development of both visual and written research material will culminate in an oral presentation and then be applied to an appropriate project.

GPHD 145. Typography II. 5 Units
Prerequisite(s): GPHD 130, GPHD 135.
Corequisite(s): GPHD 140 Fee course.
Term Typically Offered: Fall, Spring

Builds on established research, process, and project management techniques and provides students with the opportunity to focus on a practical investigation in design. Development of both visual and written research material will culminate in an oral presentation and then be applied to an appropriate project. Semiotics as applied to advanced design problems will be discussed. Image making will be stressed in this course as students experiment with techniques and media including, but not limited to, photography and illustration.
Fee course.

GPHD 150. Graphic Design Digital Portfolio. 3 Units
Prerequisite(s): GPHD 140, GPHD 142, GPHD 145.
Corequisite(s): GPHD 152, GPHD 155.
Term Typically Offered: Fall, Spring

Introduction to the concepts and tools used in a digital portfolio production for entry into the practice of design or the advanced study. Exploration and development of the graphic design portfolio and resume in digital and print form. Discussions will cover such topics as networking, interview tips, employment issues, and presentation skills.

GPHD 152. Advanced Graphic Design II. 3 Units
Prerequisite(s): GPHD 140, GPHD 142, GPHD 145.
Corequisite(s): GPHD 150, GPHD 155.
Term Typically Offered: Fall, Spring

Advanced course in graphic design that requires students to provide solutions to real world design problems. Helps refine the students individual design process and advance their understanding of professional practice. Professional, business, and ethical issues facing the design profession will be reviewed. Development of both visual and written material will be required in a group environment as well as oral and visual presentations of this material.

GPHD 155. Graphic Design Systems II. 5 Units
Prerequisite(s): GPHD 140, GPHD 145.
Corequisite(s): GPHD 150 Fee course.
Term Typically Offered: Fall, Spring

Advanced study of visual systems as applied to branding and way finding. Construction of visual systems for an expansive multi-dimensional design solutions will be covered. Introduction to methods, techniques, and approaches of emotion-driven brand development. Application of syntactic, semantic, and pragmatic aspects of pictorial design systems to wayfinding system development. Exploration of the interplay between environmental conditions and human culture impact decisions in wayfinding system development.
Fee course.

GPHD 195. Fieldwork in Graphic Design. 3 Units
Prerequisite(s): Upper division status; GPA of 2.5 or above; GPHD 130, GPHD 135; instructor permission.
Term Typically Offered: Fall, Spring

Directed observation and supervised work experience in an approved business, government, or service agency. Internships are offered to increase student understanding of the nature and scope of agency operations and giving students orientation in occupational specialties. Supervision is provided by authorized persons in the cooperating agencies and collaborative supervision is provided by the Graphic Design faculty. Minimum of three hours per week per unit of credit is required. Each student maintains a record of activities and assignments and prepares periodic reports.
Note: Students must make arrangements with a faculty member for a work program prior to admittance. No more than 6 units of GPHD 195 may be counted toward the major.

Credit/No Credit

GPHD 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed projects open to students who wish to attempt independent work.
Note: Faculty approval is required. No more than 6 units of GPHD 199 may be counted toward a Graphic Design degree.

Credit/No Credit

BFA in Graphic Design

Units required for major: 78
Minimum units required for BFA: 121

Program Description

The Bachelor of Fine Arts in Graphic Design has been developed to prepare students for professional practice and/or preparation for admission to graduate level study.

The course of study is a layered exploration that starts with fundamental principles of visual communication paired with an intensive introduction to the creative process. Exposure to multiple facets of two and three-dimensional design opens up the students' ability to engage in interdisciplinary work. Each successive layer builds in complexity to encompass technical, conceptual, and research challenges that run concurrently with a series of classes devoted to professional practice. Historical perspective and ethical concerns are addressed throughout the curriculum. A series of curated electives provide an additional conduit for students to explore possible interdisciplinary connections in their future design practice. The programs goal is to provide the community with a comprehensive visual problem solver that has a strong aesthetic ability coupled with a clear understanding of the strategic and conceptual challenges facing them in practice.

Admission Requirements

The Graphic Design program at Sacramento State is one of the most highly sought-after programs in Northern California. Due to the large number of applicants, the program is officially impacted and enrollment in upper division coursework is subject to a supplemental application.

The application for admission includes completion of a specific set of required lower division prerequisites and submission of a portfolio. Portfolio specifications and application procedures are available on the Department of Design website (http://csus.edu/design/). It is highly recommended that interested students speak with a Graphic Design advisor as soon as possible.

Minimum Grade Requirement

Students wishing to become Graphic Design majors must complete a series of required lower division courses with a grade of 'C' or better and then must apply for admission to the program.

Prerequisite Lower Division Course Requirements

When submitting an application with the required portfolio students must have completed or be enrolled in the following courses:

Code	Title	Units
DSGN 4	Design and Thinking	3
GPHD 5	Introduction to Graphic Design	3
GPHD 20	History Of Graphic Design	3
GPHD 25	Visual Basics	3
GPHD 30	Visual Basics II	5
INTD 20	Design	3
INTD 25	Design Fundamentals	3
PHOT 11	Digital Imaging	3
PHOT 20	The Photographic Self	3
Total Units		29

Technology Requirement

Students that have been accepted to the Graphic Design program, with the Department of Design, are required to own a laptop computer with appropriate software for upper division courses. Upon beginning upper division coursework this requirement must be met. Before purchasing,

please consult your major advisor or the Department of Design Office for the specific minimum requirements for the laptop computer and software.

Program Requirements

Code	Title	Units
Required Lower Division Design Core Courses (21 Units)		
DSGN 4	Design and Thinking	3
GPHD 20	History Of Graphic Design [1]	3
GPHD 25	Visual Basics	3
INTD 20	Design [1]	3
INTD 25	Design Fundamentals	3
PHOT 11	Digital Imaging [1]	3
PHOT 20	The Photographic Self	3
Required Lower Division Major Courses (8 Units)		
GPHD 5	Introduction to Graphic Design [1]	3
GPHD 30	Visual Basics II	5
Required Lower Division Art History (3 Units)		
Select one of the following:		3
ART 1A	Art, Religions, and Power before 1400	
ART 1B	Art in the Western World: From Renaissance to Baroque	
ART 1C	Global Modern and Contemporary Art	
ART 3A	Traditional Asian Art	
ART 3B	Modern and Contemporary Asian Art	
ART 5	Art of the Americas	
Required Upper Division Courses (40 Units)		
GPHD 120	Typography I	5
GPHD 125	Graphic Design Systems I	5
GPHD 130	Typography II	5
GPHD 135	User Interface Design	5
GPHD 140	User Experience Design	5
GPHD 145	Typography II	5
GPHD 150	Graphic Design Digital Portfolio,Professional Practice	5
GPHD 155	Graphic Design Systems II	5
Required Electives (6 Units)		
Select two of the following:		6
ANTH 2	Introduction to Cultural Anthropology [1]	
ANTH 146	Ethnographic Analysis	
ANTH 141	Culture Theory	
ANTH 164	Culture Change	
ART 20A	Beginning Drawing [1]	
ART 20B	Intermediate Drawing	
ART 97	Beginning Electronic Art	
ART 120	Advanced Drawing	
ART 144	Digital Printmaking	
ART 197	Intermediate Electronic Art	
ART 198	Advanced Electronic Art	
COMS 55	Media Communication and Society	
COMS 114	Communication and American Culture	
CSC 1	Introduction to Computer Science	
CSC 8	Introduction to Internet Technologies	
CSC 10	Introduction to Programming Logic	
DSGN 101	World Design and Visual Culture	
GPHD 195	Fieldwork in Graphic Design	
GPHD 199	Special Problems	
INTD 30	Introduction to Computer Aided Design	
INTD 123	Survey of Western Architecture and Interiors	
INTD 124A	American Design	
INTD 124D	Principles of House Design	
INTD 125	Urban Design and Society [1]	
MKTG 101	Principles Of Marketing	
MKTG 121	Marketing Research and Information	
MKTG 122	Buyer Behavior	
MKTG 123	Public Relations and Ethics in Business	
MKTG 125	Advertising	
PHOT 12	Digital Photography II	
PHOT 40	Basic Techniques of Photography	
PHOT 101	Photography, Inception to Mid-Century	
PHOT 102	Photography, a Social History	
PHOT 111	Intermediate Digital Imaging	
PHOT 141	Intermediate Black and White Photography	
Total Units		78

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6 Units)		
C1 - Arts [3]		0
C2 - Humanities		3
C1/C2 - Area C Course [3]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6-12 Units)		
Area D Course		3
Area D Course		3
Area D Course [3]		0 - 3
Area D Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area E: Understanding Personal Development (3 Units)		

Area E Course	3
Total Units	37-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students an 'Select from the following' option:
- If student chooses to take ANTH 2, they will meet one area of Area D (lower division).
- If students chooses to take INTD 125, they will meet the upper division Area D requirement.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Interior Design

College of Arts and Letters, Department of Design

Program Description

The Interior Design Program at California State University, Sacramento has a regional reputation as a leading design school, and is (see Special Features) recognized as a nationally accredited program. The four year program leads to a Bachelor of Arts degree in Interior Design with a concentration in Interior Architecture.

The Interior Architecture concentration provides students with the technical, creative, and critical thinking skills needed to enter the Interior Design profession. The breadth of courses in the concentration reflects the importance of both a liberal arts background and professional preparation in the design field. Courses encompass the study of design history and theory, aesthetics, graphics, lighting, space planning, computer-aided design, interior construction, and professional practice. The Interior Architecture curriculum provides comprehensive coverage in all the major areas of training, including concept development, design, communication, presentation, construction, and professional services. Many of the course assignments are based on actual design projects. Guest lecturers and professional panel critiques and discussions as well as building tours of outstanding projects are all important parts of the curriculum. Community service projects also help to maintain a strong connection to the community and profession.

Four full-time faculty and several practicing professional architects and interior designers teach in the Interior Design Program. Faculty have expertise in architecture, design history, residential and commercial interiors, lighting, space planning, and computer-aided design. Since part-time faculty are drawn from the profession and include licensed architects, and certified interior designers, students receive firsthand exposure to professional practice methods and techniques. The high level of teaching, coupled with a structured internship experience, prepares California State University, Sacramento students for successful careers in the interior design profession.

Students have an opportunity to travel with faculty to Italy during the summer to study design as a part of the advanced history option. Another outstanding feature of the Interior Design program is the senior internship program with well over 100 businesses and government agencies as active sponsors. Many students gain employment as a direct result of their internship placement.

When students begin taking upper division studio courses they are required to own a laptop computer and the appropriate software to create two and three dimensional drawings and renderings. Before purchasing, please consult your major advisor or the department office for specific minimum requirements for the laptop computer and software.

Degree Program

BFA in Interior Architecture (p. 168)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Arts in Interior Design is also accredited by the National Association of Schools of Art and Design (NASAD).

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

- The Interior Design program is accredited by the National Association of Schools of Art and Design (NASAD). The four-year major leads to a Bachelor of Arts degree in Interior Design with a concentration in Interior Architecture.
- Sacramento State Interior Design students have been award winners in numerous design competitions.
- Students are often involved in community design projects as well as projects on our growing campus.
- The Interior Design program at Sacramento State has an active student club (PRINTS) representing the American Society of Interior Designers (ASID) and the International Interior Design Association (IIDA). Monthly meetings feature guest speakers from the professional community and include workshops and field trip events.
- A summer travel study program to Italy offers students an opportunity to learn about European design and architecture.
- The internship program places students in professional organizations ranging from architecture and interior design firms to furniture companies, corporations, and government agencies.
- California State University, Sacramento, located in the state capital, is less than 100 miles from the San Francisco Bay Area. This location offers a wealth of professional employment opportunities. Graduates from our program at California State University, Sacramento have secured positions in architectural firms, interior design firms, government agencies, private corporations, furniture manufacturing companies, and design.

Career Possibilities

Residential and/or Commercial Interior Designer · Space Planner · Corporate Designer · Interior Design Showroom Manager · Manufacturer's Representative · Contract Interior Designer · Freelance Design Consultant

Contact Information

Andrew Anker, Department Chair
Rhonda Franks, Administrative Support Coordinator
Mariposa Hall 5001
(916) 278-3962
FAX (916) 278-6116
Interior Design Program Website (http://www.al.csus.edu/design/intd.html)

Faculty

ANKER, ANDREW

DUFF, MICHELLE

GIBBS, CAROLYN

KENNEY, JAMES

BFA in Interior Architecture

Units required for Major: 78
Minimum units required for BFA: 120

Program Description

The Bachelor of Fine Arts in Interior Architecture is intended for students who are interested in pursuing professional careers as interior designers/interior architects. The program provides students with the technical, creative, and critical thinking skills needed to practice in a variety of roles, including: design, presentation, client contact, field supervision and furniture/lighting specifications. The breadth of courses in the program reflects the importance of both a liberal arts background and professional preparation in the design field. Courses encompass the study of design history and theory, aesthetics, graphics, lighting, space planning, computer-aided design, interior construction, and professional practice.

The Interior Architecture curriculum provides comprehensive coverage in all the major areas of training, including concept development, design, communication, presentation, construction, and professional services. Many of the course assignments are based on actual design projects. Guest lecturers and professional panel critiques and discussions as well as building tours of outstanding projects are all important parts of the curriculum. Community service projects also help to maintain a strong connection to the community and profession.

Minimum Grade Requirement

A minimum grade of 'C' or better is required in all major course requirements.

Program Requirements

Code	Title	Units
Required Lower Division Design Core Courses (21 Units)		
DSGN 4	Design and Thinking	3
GPHD 20	History Of Graphic Design	3
GPHD 25	Visual Basics	3
INTD 20	Design	3
INTD 25	Design Fundamentals	3
PHOT 20	The Photographic Self	3
PHOT 11	Digital Imaging	3
Required Lower Division Major Courses (9 Units)		
INTD 15	Introduction to Interior Design	3
INTD 27	Introduction to Interior Architecture Studio	3
INTD 30	Introduction to Computer Aided Design	3
Required Upper Division Design History (6 Units)		
Select two of the following:		6
INTD 123	Survey of Western Architecture and Interiors	
INTD 124A	American Design	
INTD 124D	Principles of House Design	
INTD 124E	Film/Design	
Required Upper Division Professional Practice (6 Units)		
Select two of the following:		6
INTD 155	Professional Practice I	
INTD 165	Professional Practice II	
INTD 175	Professional Practice III	
Required Upper Division Courses (33 Units)		
INTD 151	Interior Design Graphics I	3
INTD 153	Interior Design Studio I,Interior Architecture Studio I	5
INTD 161	Interior Design Graphics II	3
INTD 163	Interior Architecture Studio II	5
INTD 171	Interior Design Graphics III	3
INTD 173	Interior Architecture Studio III	5

INTD 181	Interior Design Graphics IV,Interior Architecture Portfolio	1
INTD 183	Interior Desgin Studio IV,Interior Architecture Studio IV	5
INTD 195	Professional Practice IV-Internship	3
Required Upper Division Elective (3 Units)		
Select one of the following:		3
INTD 123	Survey of Western Architecture and Interiors	
INTD 124A	American Design	
INTD 124D	Principles of House Design	
INTD 124E	Film/Design	
INTD 155	Professional Practice I	
INTD 165	Professional Practice II	
INTD 175	Professional Practice III	
Total Units		78

Photography

College of Arts and Letters, Department of Design

Program Description

The Bachelor of Arts Degree in Photography major is comprised of coursework from the Department of Design within the College of Arts and Letters at California State University, Sacramento. The program is administered by the Department of Design, which also offers degrees in Graphic Design and Interior Design. The Photography program is the only B.A. granting program specializing in photography in the CSU system. The program's curriculum engages students in relevant photographic technical and aesthetic concerns, as well as the history and theory of photographic practice, past and present. The program's goal is to ground students in the rich variety of cultural practices necessary to be an effective visual communicator in today's wide and varied field.

Degree Program

BFA in Photography (p. 171)

Special Features

- The Department of Design offers student scholarships.
- Among the facilities available for Photography students is a large digital lab furnished with Macintosh computers, large format inkjet printers, and film and flatbed scanners. There is also an alternative process facility, a well-equipped chemical darkroom, and a studio lighting facility.
- The Photography program has a generous collection of equipment available for student checkout that includes small, medium and large format cameras, various lenses, tripods, and portable lighting equipment.
- A Design Department gallery on the 4th floor of Mariposa Hall that regularly exhibits student work.

Career Possibilities

Photography is one of the most widely used forms of visual communication in our world today. As the technology to create and share visual imagery has become more accessible and expedient, photographs have taken on a vital role in how we share complex visual information. We use it both to form and communicate the sense of who and what we are via social media, and it is an important tool in the material and mental exploration and interpretation of our world. The Photography degree at Sacramento State prepares students to thoughtfully engage in the production, interpretation, and presentation of photographic images, asking them to consider how these images can be created and used in the world, whether in personal, social, or professional contexts. While gaining technical skills in the production of photographs, students engage rigorously in the conceptual discourse surrounding photographic images (their use and meaning) and are encouraged to consider the application of photographs broadly and with flexibility. Students who earn a degree in Photography can bring this expertise to all career fields, whether these are the more traditional photographic careers that occur in the fine arts, commercial photography, journalism, or editorial work, or in the any of the myriad professions that need and rely on photographic imagery to help define, gather, and assess information, or communicate who and what they are.

Contact Information

Andrew Anker, Chair, Department of Design
Rhonda Franks, Administrative Support Coordinator
Mariposa Hall 5001
(916) 278-3962
FAX (916) 278-6116
Photography Program Website (http://www.al.csus.edu/design/photo/)

Faculty

DERTINGER, DOUG

POOR, NIGEL

SHEPARD, NICK

PHOT 11. Digital Imaging. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Acquaints students with digital photographic equipment and techniques. Lecture and demonstrations will cover hardware (cameras, computers, scanners and printers) and software used to create digital images. Ethical and legal issue will be discussed. Portfolio of digital photographs created in the computer lab required.

PHOT 12. Digital Photography II. 3 Units
Prerequisite(s): PHOT 11. Fee course.
Term Typically Offered: Fall, Spring

An introduction to composited photographic images. Course provides a broad primer to digital editing and compositing techniques. Lectures and discussions provide artistic and ethical context for contemporary photographic practice.
Fee course.

PHOT 15. Survey of Photography. 3 Units
Term Typically Offered: Fall, Spring

PHOT 20. The Photographic Self. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Focuses on photography's influence on notions of self from its inception in 1938 to the present. Enhances students' understanding of how and why photography became the powerful and ubiquitous tool that shaped a new form of visual self-expression.

PHOT 40. Basic Techniques of Photography. 3 Units
Term Typically Offered: Spring only

Introduction to basic camera and darkroom techniques. Concepts of visual organization, design and using light effectively are emphasized. Lecture two hours; laboratory three hours.

PHOT 101. Photography, Inception to Mid-Century. 3 Units
Term Typically Offered: Fall only

Introduces students to the history of photography, from inception to Mid-20th Century. Practices of photographers and artists, working with photographic technologies, will be discussed. The course examines photographic vision and the impact of the medium through lectures and readings by art historians and photographers.
Cross-listed: ART 101.

PHOT 102. Photography, a Social History. 3 Units
Term Typically Offered: Spring only

Examines photographic vision and the impact of the medium on society through readings by both photographers and photographic critics. Establishes the importance of photography as a contemporary medium, explores the development of photographic vision and the relationship between photographs and cultural events. Lecture/discussion.

PHOT 111. Intermediate Digital Imaging. 3 Units
Prerequisite(s): PHOT 11 and PHOT 40; declared Photography majors only
Corequisite(s): PHOT 141 and PHOT 101
Term Typically Offered: Fall only

Covers intermediate to advanced concepts and techniques in digital photographic imaging, providing students with the ability to explore both new and previously mastered software and hardware applications. Emphasis is on using digital techniques to create and print effective and imaginative color photographs. Lectures and demonstrations cover capture, manipulation, color management and pre-press techniques for a variety of output devices.

PHOT 141. Intermediate Black and White Photography. 3 Units
Prerequisite(s): PHOT 11 and PHOT 40; declared Photography majors only
Corequisite(s): PHOT 111 and PHOT 101
Term Typically Offered: Fall only

This course focuses on the development of the photographer's vision through the Zone System, black and white materials and the 4X5 view camera. The Zone System is used to control negative exposure and contrast, enhance print pre-visualization and to create quality gelatin-silver prints. Though this class concentrates on advancing student's technical proficiency a significant portion of the class is dedicated to aesthetic concerns in photography.

PHOT 148. Artificial Light, Studio. 3 Units
Prerequisite(s): PHOT 111 and PHOT 141
Corequisite(s): PHOT 102 and PHOT 155
Term Typically Offered: Spring only

A commercially oriented course with assignments covering such topics as food, fashion and products photographed with artificial light in the studio. Business, legal and ethical practices in commercial and editorial photography are discussed as they apply to work done in a studio setting. Students are expected to become visually and technically competent with artificial light sources used in a studio setting.

PHOT 149. Artificial Light, Location. 3 Units
Prerequisite(s): PHOT 148 and PHOT 155
Corequisite(s): PHOT 165
Term Typically Offered: Fall only

A location lighting course covering the use of artificial light and non-studio photography. Assignments cover such topics as: interior and exterior architecture, food and fashion shot on location. Techniques for combining the use of hot lights, electronic flash and ambient light are discussed. Students will use a body of work demonstrating their visual and technical understanding of artificial light sources for editorial and commercial application.

PHOT 155. Advanced Photography Techniques. 3 Units
Prerequisite(s): PHOT 111 and PHOT 141
Corequisite(s): PHOT 102 and PHOT 148
Term Typically Offered: Spring only

Explores advanced techniques in the production of photographic imagery, with special emphasis on the hybridization of photographic processes. Lectures cover advanced chemical and digital photographic procedures in camera use and printing techniques. Students must demonstrate a high level of visual awareness and technical competency, and must be willing to take risks in the creative application of photographic processes.

PHOT 161. Photography in the Field. 3 Units
Prerequisite(s): PHOT 141 or instructor permission.
Term Typically Offered: Fall, Spring

The class visits specific sites followed by a group critique of the resulting photographic work. The course objective is to examine how one situation can be interpreted by many varied sensibilities, broadening the artist's visual vocabulary. Students are required to create visually unified portfolio that demonstrates a sense of place.
Cross-listed: ART 161.

PHOT 162. Alternative Photographic Processes. 3 Units
Prerequisite(s): PHOT 141 or instructor permission.
Term Typically Offered: Fall, Spring

Studio course exploring alternative photographic processes that may include: printing-out paper, new cyanotype, argyrotype, and platinum-palladium. Slide discussions, individual and class critiques.
Cross-listed: ART 162.

PHOT 163. Pinhole Photography. 3 Units
Prerequisite(s): PHOT 40 or equivalent.
Term Typically Offered: Fall, Spring

Intermediate course investigating the theory, history, and practice of pinhole photography. Use of student-made pinhole cameras of varying focal lengths using black and white and color materials. Emphasis on creative approach in both camera making and image formation, supported by intermediate-level photographic technique. Individual final portfolios and group exhibition of cameras and prints at conclusion of course.
Cross-listed: ART 163.

PHOT 165. Issues in Contemporary Photographic Practice. 5 Units
Prerequisite(s): PHOT 148 and PHOT 155 Fee course.
Term Typically Offered: Fall only

Covers advanced problems in the process of creating photographic work. Emphasis is on the ways which content/form relationships within a body of work are informed by the artist's conceptual and material engagement, as well as the way in which process and context shape meaning in photographic work. Course centers on readings in contemporary theory and aesthetics, discussion, the production of photographic work, and critique.
Note: Type III Fee, $45

Fee course.

PHOT 175. Studio Topics in Photography. 3 Units
Prerequisite(s): PHOT 149 and PHOT 165
Corequisite(s): PHOT 180
Term Typically Offered: Spring only

This class is a broad investigation of photography's potential. Each semester the class concentrates on a photographic strategy including but not limited to: documentary, journalism, fabrication, image and text, and the archive. Students are introduced to photography's varied application, new developments and conversations in the medium. Readings and discussions will enlist a range of theoretical and critical approaches. Course center on readings, discussion, production of photographic work and critique.

PHOT 180. Senior Portfolio. 5 Units
Prerequisite(s): PHOT 165 Fee course
Term Typically Offered: Spring only

A senior level course aimed at furthering student's knowledge of postgraduate opportunities. The required final portfolio of images will reflect the student's photographic education, experience and area of expertise. The content and format of this portfolio will depend on the student's future academic or professional goals.
Note: Type III Fee $45

PHOT 195. Internship In Photography. 3 Units
Prerequisite(s): A minimum of two upper division photography courses.
Term Typically Offered: Fall, Spring

Directed observation and work experience with public agencies, organizations, publications, design or photography studios. Fieldwork is offered to give students experience, personal contacts and orientation in the area of professional photography. Supervision is provided by faculty and the cooperating community employer. Students are required to maintain a detailed record of activities and report regularly to the supervising faculty member. To receive credit the selected activity must be approved prior to adding the course. Ten hours weekly.
Credit/No Credit

PHOT 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed readings in photography. Open to students who are working at an advanced level of photography and competent to carry on individual work.
Credit/No Credit

PHOT 299. Special Problems. 1 - 3 Units
Prerequisite(s): Requires instructor approval.
Term Typically Offered: Fall, Spring

Individual projects or directed readings in photography for graduate level students. Open to students who are working at an advanced level of photography and competent to carry on individual work.
Credit/No Credit

BFA in Photography

Units required for Major: 79
Minimum units required for BFA: 120

Program Description

The Bachelor of Fine Arts in Photography is intended for students who are interested in pursuing careers as photographic image makers. The program provides students with the technical, creative, and critical thinking skills needed to practice in a variety of design and art fields. The breadth of courses in the program reflects the importance of both a liberal arts background and professional preparation in the design field. Courses encompass the study of photographic and graphic history and theory, aesthetics, design, contemporary digital and analog photographic practice, lighting, complex planning, and professional practice.

The Photography curriculum provides comprehensive coverage in all major areas of training, including techniques in contemporary photographic image making, concept development and communication, image production and presentation techniques, critical image evaluation, historical understanding and contextualization, and issues of proper conduct and ethics within the field. Guest lecturers are an important part of the photography curriculum.

Program Requirements

Code	Title	Units
Required Lower Division Design Core Courses (21 Units)		
DSGN 4	Design and Thinking	3
GPHD 20	History Of Graphic Design	3
GPHD 25	Visual Basics	3
INTD 20	Design	3
INTD 25	Design Fundamentals	3
PHOT 11	Digital Imaging	3
PHOT 20	The Photographic Self	3
Required Lower Division Major Courses (9 Units)		
PHOT 12	Digital Photography II	3
PHOT 15	Survey of Photography	3
PHOT 40	Basic Techniques of Photography	3
Required Lower Division Art History (3 Units)		
ART 1C	Global Modern and Contemporary Art	3
Required Lower Division Interdisciplinary Elective (3 Units)		
Select one of the following:		3
ART 1A	Art, Religions, and Power before 1400	
ART 1B	Art in the Western World: From Renaissance to Baroque	
ART 3A	Traditional Asian Art	
ART 3B	Modern and Contemporary Asian Art	
ART 5	Art of the Americas	

ART 20A	Beginning Drawing	
ART 22	Beginning Painting	
ART 24	Beginning Watercolor	
ART 40	Beginning Printmaking	
ART 50	Beginning Ceramics	
ART 75	Beginning Metalsmithing	
ART 88	Beginning Sculpture	
ART 97	Beginning Electronic Art	
COMS 8	Interpersonal Communication Skills	
COMS 55	Media Communication and Society	
or JOUR 55	Media Communication and Society	
FILM 97	Introduction to Film Studies	
GPHD 5	Introduction to Graphic Design	
GPHD 30	Visual Basics II	
INTD 15	Introduction to Interior Design	
INTD 30	Introduction to Computer Aided Design	
JOUR 20	Style For Media Writers	
JOUR 50	Media Literacy and Critical Thinking	
THEA 1	Introduction To Theatre	
THEA 2	History of the Theatre: Ancient to Renaissance	
THEA 3	Theatre History After 1660	
THEA 5	Aesthetics of Theatre and Film	
Required Lower Division Culture and Society Elective (3 Units)		
Select one of the following:		3
ANTH 4	Language, Culture, and Critical Thinking	
ETHN 10	Africa: Myths and Realities	
ETHN 11	Introduction to Ethnic Studies	
ETHN 72	Black Images in Popular Culture	
Required Upper Division Studio Courses (22 Units)		
PHOT 111	Intermediate Digital Imaging	3
PHOT 141	Intermediate Black and White Photography	3
PHOT 148	Artificial Light, Studio	3
PHOT 155	Advanced Photography Techniques	3
PHOT 165	Issues in Contemporary Photographic Practice	5
PHOT 180	Senior Portfolio	5
Required Upper Division Studio Elective (3 Units)		
Select one of the following:		3
PHOT 149	Artificial Light, Location	
PHOT 175	Studio Topics in Photography	
Required Upper Division Photographic Theory and History (6 Units)		
PHOT 101	Photography, Inception to Mid-Century	3
PHOT 102	Photography, a Social History	3
Required Upper Division Interdisciplinary Electives (6 Units)		
Select two of the following:		6
ART 100	Origins of American Indian Art	
ART 103	Art of the Ancient Mediterranean	
ART 105	Medieval Art	
ART 106	Renaissance Art	
ART 107	Baroque and Rococo Art	
ART 108	19th Century Art	
ART 109	Modern Art	
ART 110	US and Caribbean Art: Race and Representation	
ART 111	Latin American and Latino Art History	
ART 112	Contemporary Art	
ART 113B	Asian Art and Mythology	
ART 117A	Art of India and Southeast Asia	
ART 117B	Art of China and Japan	
ART 117C	Art of Korea	
ART 118A	Modern Architecture	
ART 118B	California Architecture and Urban History	
ART 120	Advanced Drawing	
ART 122A	Intermediate Painting	
ART 140	Intermediate Printmaking	
ART 142	3D Computer Modeling	
ART 144	Digital Printmaking	
ART 145	Advanced Printmaking Studio	
ART 147	Video Art	
ART 150	Advanced Ceramics	
ART 153	Hand-Built Ceramic Techniques	
ART 174	Intermediate Jewelry	
ART 175	Intermediate Metalsmithing	
ART 183	Advanced Sculpture	
DSGN 101	World Design and Visual Culture	
INTD 125	Urban Design and Society	
JOUR 120	History Of The Media	
or COMS 120	History of the Media	
JOUR 134	War, Peace and the Mass Media	
PHOT 149	Artificial Light, Location	
PHOT 175	Studio Topics in Photography	
Required Upper Division Culture and Society Elective (3 Units)		
Select one of the following:		3
ETHN 133	Crosscultural Aging in America	
ETHN 137	Race and Ethnicity in Latin America and Caribbean	
ETHN 143	American Indians, Film and Popular Culture	
ETHN 150	Native American Oral Tradition and Storytelling	
ETHN 151	Native American Women	
JOUR 172	Women in the Mass Media	
JOUR 175	Minorities, Social Change and the Press	
THEA 140	Black Drama in the African Diaspora	
THEA 144	Women and Theatre: Staging Diversity	
THEA 173	Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present	
THEA 174	Multicultural Perspectives in American Theatre	
Total Units		79

English

College of Arts and Letters

Program Description

The English department of California State University, Sacramento, is a community of teachers, scholars, writers, and support staff whose primary mission is to promote learning in composition, creative writing, English education, linguistics, literature, and the teaching of English as a second language. The department seeks to help students acquire

knowledge, develop skills, and realize their own intellectual and creative goals.

At the undergraduate and graduate levels, the English Department presents a broad and balanced curriculum designed to develop the reading and writing skills, the interpretative abilities, and the cultural awareness of its students by maintaining and enhancing a tradition of strong teaching, solid scholarship, and vigorous support of creative literary activity.

Degree Programs

BA in English (p. 193)

Minor in English (p. 202)

Minor in Teaching English to Speakers of Other Languages (TESOL) (p. 202)

Single Subject Matter Program (Pre-Credential Preparation) (p. 202)

Certificate in Teaching Composition (p. 195)

Certificate in Advanced Study in Teaching English to Speakers of Other Languages (TESOL) (p. 196)

MA in English (Creative Writing) (p. 197)

MA in English (Literature) (p. 198)

MA in Teaching English to Speakers of Other Languages (TESOL) (p. 200)

Special Features

- A Course Description Booklet giving detailed descriptions of courses to be offered in the next semester, together with statements of requirements for the major and minor and for the graduate program, will be available on the English Department Web site a month or so before registration materials are issued. All students are assigned an English faculty advisor; students are encouraged to consult with them in planning schedules. English majors and minors are urged to examine their career goals early in their program and to discuss their plans with English Department faculty advisors.
- Qualified upper division and graduate students may apply for paid assistantships or associateships in the English Department. Student Assistants and Graduate Assistants usually work from 10 to 20 hours per week at such tasks as tutoring and clerical assistance. Teaching Associates normally teach one section of composition each semester for up to three semesters. Information is available on the English Department website.
- Internships are available for academic credit and career training governmental agencies, businesses, community colleges, and other institutions and organizations.
- Students interested in the various aspects of publication are encouraged to become involved in the student-produced *Calaveras Station Literary Journal*, a professional-quality journal of student work published annually. Submissions, solicited in fall semester, are open to all Sacramento State students.

Career Possibilities

Advertising Person · Arts Program Administrator · Business Administrator · Civil Servant · Columnist/Journalist · Contract Specialist · Creative Writer · Drama/Film Critic · Editor/Evaluator · Educator · Film/TV Scriptwriter · Information Specialist · Interpreter · Lawyer · Legislative Assistant · Methods Analyst · Program Developer · Public Relations Person · Researcher · Technical Writer · Writing Consultant

Contact Information

David Toise, Department Chair
Jennifer Kofnovec, Administrative Support Coordinator
Shaun Kirby, Administrative Support Coordinator
Calaveras Hall 103
(916) 278-6586
Department of English Website (http://www.csus.edu/engl/)

Faculty

ANDERSON-POWELL, AMY

BUCHANAN, BRADLEY W.

CLARK, JOHN T.

CLARK-OATES, ANGELA

COPE, JONAS

CORDOVA, TERESA A.

DELEHANT, CAROLYN A.

DOBSON, MONA

DUNN, SAMUEL J.

DUROSKO, SUSAN

FANETTI, SUSAN

FRAGA, CATHERINE N.

GHOSAL, TORSA

GIEGER, JASON C.

HAYES, HOGAN

HEATHER, JULIAN

HECKATHORN, AMY C.

KOMIYAMA, REIKO

LAFLEN, ANGELA

LAPORTE, CARRIE

LEE, HELLEN

LINVILLE, CYNTHIA

LIU, HSIANG 'Sean'

MARTINEZ, ROSA

McKINNEY, JOSHUA B.

MICHAELS, ANN

MITCHELL, REBECCA

MONTGOMERY, CHRISTINE LUPO

MORALES, SYLVIA

NEUFFER, LORI

OCHOA, RUTH

OVERBY, BLAIR

PAGE, MONICA C.

RICE, DOUGLAS F.

SCHARF, ANITA V.

SEO, MI-SUK

STAGNARO, MEL J.

STANLEY, ROBERT D.

SWEET, NANCY F.

TOISE, DAVID W.

WILLIAMS, (SAMUEL) BRETT

YEN, JULIE W.

ZARINS, KIM

ENGL 1. Basic Writing Skills. 3 Units
Prerequisite(s): Score of 146 and below on English Placement Test or credit in ENGL 15. Department approval required.
Term Typically Offered: Spring only

Prepares students for the challenging thinking, reading, and writing required in academic discourse. Uses writing as a means for discovery and reflection as well as reading as a source for ideas, discussion, and writing. Concentrates on developing expository essays that communicate clearly, provide adequate levels of detail, maintain overall coherence and focus, and demonstrate awareness of audience and purpose.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree.

ENGL 1C. Critical Thinking and Writing. 3 Units
Prerequisite(s): Grade of C- or better in ENGL 5.
Term Typically Offered: Fall, Spring

Devoted to the principles of critical thinking and the writing of argumentative essays. Focuses upon formulating defensible statements, evaluating evidence, and applying the principles of inductive and deductive reasoning.

ENGL 1X. Academic Literacies Workshop. 1 Unit
Corequisite(s): ENGL 5 or ENGL 5M or ENGL10 or ENGL 10M or ENGL 11 or ENGL 11M
Term Typically Offered: Fall, Spring

Offers instruction in elements of academic literacy so that students develop proficiency in the writing process, with a specific emphasis on drafting, planning, and revision strategies and methods. Instruction takes place in traditional classroom or hybrid setting; students, in small groups, engage in guided exploration and facilitated workshops on academic literacy strategies, such as critical reading, writing, and research strategies. Offers support for GE area A2: Written Communication; requires a co-requisite in ENGL 5, 5M, 10, 10M, 11, or 11M.
Credit/No Credit

ENGL 3. Introduction to Academic Discourse. 4 Units
Term Typically Offered: Fall, Spring

Offers students a rigorous introduction to academic discourse at the college level in the areas of critical reading, critical thinking, academic discussion, and the use of academic research. Concentrates on using expository texts as a foundation for analyzing the rhetorical strategies and effectiveness of an argument. Promotes academic discussion and fosters intellectual curiosity and collaboration.
Note: Receives baccalaureate credit.

Credit/No Credit

ENGL 3M. Introduction to Academic Discourse for Multilingual Students. 4 Units
Term Typically Offered: Fall, Spring

Offers multilingual students a rigorous introduction to academic discourse at the college level in the areas of critical reading, critical thinking, academic discussion, and the use of academic research. Concentrates on using expository texts as a foundation for analyzing the rhetorical strategies and effectiveness of an argument. Promotes academic discussion and fosters intellectual curiosity and collaboration.
Note: Receives baccalaureate credit.

Credit/No Credit

ENGL 5. Accelerated Academic Literacies. 3 Units
General Education Area/Graduation Requirement: Written Communication (A2)
Term Typically Offered: Fall, Spring

Intensive, semester-long course to help students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop metacognitive understandings of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement

ENGL 5M. Accelerated Academic Literacies - Multilingual. 3 Units
General Education Area/Graduation Requirement: Written Communication (A2)
Term Typically Offered: Fall, Spring

Intensive, semester-long course to help multilingual students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop metacognitive understandings of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.

ENGL 10. Academic Literacies I. 3 Units
Term Typically Offered: Fall only

Year-long course (combined with ENGL 11) to help students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement

Credit/No Credit

ENGL 10M. Academic Literacies I - Multilingual. 3 Units
Term Typically Offered: Fall, Spring

Year-long course (combined with ENGL 11M) to help multilingual students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement

Credit/No Credit

ENGL 11. Academic Literacies II. 3 Units
Prerequisite(s): ENGL 10.
General Education Area/Graduation Requirement: Written Communication (A2)
Term Typically Offered: Spring only

Continued study (following ENGL 10) to help students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes: read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement

ENGL 11M. Academic Literacies II-Multilingual. 3 Units
Prerequisite(s): ENGL 10M.
General Education Area/Graduation Requirement: Written Communication (A2)
Term Typically Offered: Spring only

Continued study (following ENGL 10M) to help multilingual students use reading, writing discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement

ENGL 15. College Language Skills. 4 Units
Prerequisite(s): Score of 120-141 on the English Placement Test.
Term Typically Offered: Fall, Spring

Instruction in reading and writing skills. Focuses on the interrelationship of reading and writing, with emphasis on development, organization, and clarity of communication. Lecture three hours; lab two hours.
Note: Utilizes computers.

ENGL 16. Structure Of English. 3 Units
Prerequisite(s): ENGL 5 or equivalent.
Term Typically Offered: Fall, Spring

Introduction to the terminology and structure of traditional grammar; analysis of the standard rules for agreement, punctuation, pronoun reference, etc.; introduction to social variance with respect to usage-standard vs. non-standard; and a description of the English sound system (vowels and consonants) and its relationship to standard orthography (sound/letter correspondences) spelling rules.

ENGL 20. College Composition II. 3 Units
Prerequisite(s): Completion of ENGL 5 or ENGL 5M OR ENGL 11 or ENGL 11M or equivalent with a C- or better; sophomore standing (must have completed 30 units prior to registration).
Term Typically Offered: Fall, Spring

Advanced writing that builds upon the critical thinking, reading, and writing processes introduced in ENGL 5 and ENGL 5M. Emphasizes rhetorical awareness by exploring reading and writing within diverse academic contexts with a focus on the situational nature of the standards, values, habits, conventions, and products of composition. Students will research and analyze different disciplinary genres, purposes, and audiences with the goals of understanding how to appropriately shape their writing for different readers and demonstrating this understanding through various written products.
Note: Writing requirement

ENGL 20M. College Composition II for Multilingual Students. 3 Units
Prerequisite(s): ENGL 5 or ENGL 5M or equivalent; sophomore standing
Term Typically Offered: Fall, Spring

Advanced writing for multilingual that builds upon the critical thinking, reading, and writing processes introduced in English 5/5M. Emphasizes rhetorical awareness by exploring reading and writing within diverse academic contexts focusing on the situational nature of the standards, values, habits, conventions, and products of composition. Students will research and analyze different disciplinary genres, purposes, and audiences with the goals of understanding how to appropriately shape their writing for different readers and demonstrating this understanding through various written products.
Note: Writing requirement

ENGL 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support, as well as explore gerontological concepts needed to respond to demographic changes in today's world.

ENGL 30A. Introduction to Creative Writing. 4 Units
Term Typically Offered: Fall, Spring

Workshop for students who have had little or no experience writing fiction or poetry and who are trying to decide if they are interested in becoming writers. Over the course of the semester, students write and polish several poems and short stories which they present for critique and commentary. In addition, they study the basic elements of fiction and poetry and learn how to use these effectively in their own work.

ENGL 30B. Introduction to Writing Fiction. 4 Units
Term Typically Offered: Fall, Spring

Workshop for students who have had little or no experience writing fiction. Students write and polish several short stories which they present for critique and commentary. In addition, they study the basic elements of plot, character, description, and dialogue and learn how to use these effectively in their own fiction.

ENGL 30C. Introduction to Poetry Writing. 4 Units
Term Typically Offered: Fall, Spring

Designed for lower division students who have little or no experience writing poetry. Students will write approximately twelve poems in a variety of forms and receive instruction and practice in the workshop method. In addition, they study the basic elements of poetic craft: rhythm, enjambment, basic figures of speech, etc., and how to use them effectively in their own poetry.

ENGL 40A. Introduction to British Literature I. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Major developments in the literature of England from Chaucer through the close of the Augustan Age.

ENGL 40B. Introduction to British Literature II. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Major developments in the literature of England from the Pre-Romantics and Romantics through the 20th century.

ENGL 50A. Introduction to American Literature I. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Major developments in the literature of America from the beginnings through the Civil War.

ENGL 50B. Introduction to American Literature II. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Major developments in American Literature from the end of the Civil War to the present.

ENGL 60. Reading for Speed and Efficiency. 2 Units
Term Typically Offered: Fall, Spring

Strategies and techniques to promote greater reading efficiency and flexibility and increase reading speed. Drills to develop rate and comprehension as well as supplementary practice in the LSC reading lab.
Note: Utilizes computers; may be repeated for credit.

Credit/No Credit

ENGL 60M. Reading for Speed and Efficiency for Multilingual Students. 2 Units
Term Typically Offered: Fall, Spring

Strategies and techniques to promote greater reading efficiency and flexibility as well as to increase reading speed for college-level multilingual readers. Classroom instruction includes drills to develop rate and comprehension as well as supplementary practice in the LSC reading lab.
Note: Utilizes computers; May be repeated for credit.

Credit/No Credit

ENGL 65. Introduction to World Literatures in English. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

An introduction to world literature written in English that places writers and their works within colonial, post-colonial, and literary contexts. Texts may come from Africa, India, Southeast Asia, the Middle East, the Caribbean, Canada, and non-English Britain.

ENGL 85. Grammar for Multilingual Writers. 2 Units
Term Typically Offered: Spring only

Covers the major systems of English grammar in the context of reading passages and the students' own writing. Practice in editing authentic writing.
Note: May be repeated for credit.

Credit/No Credit

ENGL 86. College Language Skills for Multilingual Students. 4 Units
Prerequisite(s): Score of 120-141 on the English Placement Test or score of 2 or 3 on the English Diagnostic Test.
Term Typically Offered: Fall, Spring

Focuses on the interrelationships of reading and writing, with emphasis on development, organization, grammar, and clarity of communication. Lecture three hours; lab two hours.
Note: Utilizes computers.

Credit/No Credit

ENGL 87. Basic Writing Skills for Multilingual Students. 3 Units
Prerequisite(s): Score of 142-145 on English Placement Test or score of 4 on English Diagnostic Test, or credit in ENGL 86.
Term Typically Offered: Fall, Spring

Emphasizes writing and language development. Instruction in reading and essay writing, from idea generation to revision and editing.
Credit/No Credit

ENGL 90A. Modern Short Plays. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)

Term Typically Offered: Fall, Spring

ENGL 97. Introduction to Film Studies. 3 Units
Term Typically Offered: Fall, Spring

Examines cinematic techniques, styles, vocabulary, and discourses. Introduces different ways for writing about films and for working with a variety of cinematic terms. Film form and style will be studied by examining specific scenes in films from different genres, nations, and directors. Films used throughout the course will be selected from different historical periods.
Cross-listed: FILM 97.

ENGL 98. Introduction to Film Discourse and Analysis. 4 Units
Term Typically Offered: Fall, Spring

An introduction to cinematic vocabulary, film history, and film analysis. Through this introduction, students will learn how to write about and analyze film. The course prepares students for upper division work in film studies and cultural analysis. The course includes a significant research and/or creative project.

ENGL 100B. Literary Theory. 4 Units
Term Typically Offered: Fall, Spring

Designed to engage students in a productive conversation about the various theories of literature and reading that currently inform Literary Studies. Provides a historical overview of modern theory including, but not limited to, Formalism, Structuralism, Psychoanalysis, Marxism, Deconstruction, and Feminism. Students are encouraged to apply these theories to their practice of literary criticism and to assess the strengths and weaknesses of each paradigm.

ENGL 100Z. Topics in Literary Theory and Criticism. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Investigates one or more schools of literary theory or criticism and their application to works of literature and/or film.
Note: May be repeated twice for credit as long as topics vary; Writing Intensive

ENGL 105. Film Theory and Criticism. 4 Units
Term Typically Offered: Fall, Spring

Survey of film theory focusing on Auteurism, Class, Expressionism, Formalism, Genre, Gender, Narratology, Neorealism, Phenomenology, Post Structuralism, Psychoanalysis, Realism, Semiology, Structuralism and Third Cinema.

ENGL 109M. Writing for GWAR Placement-Multilingual. 3 Units
Prerequisite(s): ENGL 20 with at least a C- grade or better and have completed at least 60 semester units.
Term Typically Offered: Fall, Spring

Provides intensive practice in prewriting, drafting, revising, and editing academic writing for multilingual writers. Students research, analyse, reflect on, and write about the kinds of writing produced in academic disciplines. Students produce a considerable amount of writing such as informal reading responses, rhetorical analyses, and an extended academic research project: students will submit their writing late in the semester in a GWAR Portfolio, from which they will receive a GWAR Placement.

ENGL 109W. Writing for GWAR Placement. 3 Units
Prerequisite(s): English 20 with a C- grade or better and have completed at least 60 semester units.
Term Typically Offered: Fall, Spring

Provides intensive practice in prewriting, drafting, revising, and editing academic writing. Students research, analyse, reflect on, and write about the kinds of writing produced in academic disciplines. Students produce a considerable amount of writing such as informal reading responses, rhetorical analyses, and an extended academic research project: students will submit their writing late in the semester in a GWAR Portfolio, from which they will receive a GWAR Placement.

ENGL 109X. Writing-Intensive Workshop. 1 Unit
Prerequisite(s): Writing Placement for Juniors: student who receive a 4-unit placement on the WPJ.
Corequisite(s): Writing-Intensive upper-division course.
Term Typically Offered: Fall, Spring

Student-centered group tutorial which will offer supplemental instruction in elements of academic writing taught in writing-intensive upper-division courses; it will provide support to students concurrently enrolled in writing-intensive upper-division courses throughout the writing process, including drafting, revising, and editing, for a variety of papers.
Credit/No Credit

ENGL 110A. Linguistics and the English Language. 3 Units
Term Typically Offered: Fall, Spring

Survey of modern English and the basic concepts of modern linguistics. Students will learn how linguists view regularity in language, as exemplified by data from English. Students will also learn how English spelling is an imperfect representation of sounds, how the sound system of English operates, how words and sentences are formed and may be analyzed, how the language changes over time, space, and social setting, and how the language is learned by children and adults.

ENGL 110B. History of the English Language. 3 Units
Term Typically Offered: Fall, Spring

Survey of the linguistic and social history of the English language, tracing its growth from a minor dialect of the Germanic family to one of the most widely spoken languages of the world. Topics include structural change in the language, vocabulary growth, and variation in English around the world.

ENGL 110C. Technology in Second Language Teaching. 3 Units
Term Typically Offered: Summer only

Prepares language teachers to effectively integrate technology into classrooms. Examines theoretical rationales for using computer-assisted language learning, the range of uses of technology in classrooms, and best practice. Develops students' technological literacy and ability to critically evaluate computer-assisted language teaching materials. Cross Listed: ENGL 210C; only one may be counted for credit.

ENGL 110J. Traditional Grammar and Standard Usage. 3 Units
Term Typically Offered: Fall, Spring

Develops a thorough understanding of basic issues in traditional English grammar and usage. It emphasizes knowledge of traditional grammar needed by single-subject credential students expecting to teach high school English. Topics include parts of speech, functions of words in sentences, phrases and clauses, and punctuation. Students will learn to apply their knowledge of grammar in composition instruction and marking essays. Students will also study use of specific grammatical features in developing rhetorical styles.

ENGL 110P. Second Language Learning and Teaching. 3 Units
Term Typically Offered: Fall, Spring

Surveys the major issues involved in the acquisition of second languages and in teaching second language (L2) students. Topics covered include differences between first and second language acquisition, including age, biology, cognitive styles, personality, sociocultural factors, and linguistic variables; in addition, various models, techniques and approaches to L2 teaching are covered. Special attention is given to the unique demographics and characteristics of language minority students in California's public schools.

ENGL 110Q. English Grammar for ESL Teachers. 3 Units
Term Typically Offered: Fall, Spring

A survey of those aspects of English grammar that are relevant to teaching second language learners of English. The emphasis is on elements of simple and complex sentences, particularly the structure of noun phrases, the meanings of verb forms, and the expression of adverbial meanings.

ENGL 116A. Studies in Applied Linguistics. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Students learn the basics of the English system of phonology and morphology. Takes an integrated approach synthesizing the issues of phonics, schemata-building, and whole language strategies in teaching reading and writing to young learners. Students will also learn the importance of first and second language acquisition for elementary school students.Evaluation will include classroom examinations, and students will also undertake a detailed case study of one child learning to read and write.

ENGL 116B. Children's Literary Classics. 3 Units
Prerequisite(s): Successful completion of at least 60 units (junior standing).
Term Typically Offered: Fall, Spring

Introduction to the rich profusion of children's literature from a variety of cultures and countries and provides the opportunity to respond to this literature creatively and personally. Students will become familiar with the basic terminology of literary analysis -- themes, irony, point-of-view, etc.-- in order to deepen and enrich their experiences with the fiction, drama, and poetry available to young people. The readings are balanced for gender, culture, and ethnic concerns.

ENGL 120A. Advanced Composition. 4 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Intensive writing workshop in which student writing is the focus. Students will engage in a writing process that will include feedback from peers and the instructor throughout the process. This writing process may occur in a variety of rhetorical situations and genres. Through reflection on their writing products and processes, students will gain an awareness of themselves as writers. By the end of the course students will complete an extensive research project and a guided project focused on academic inquiry.
Note: ENGL 120A is a requirement for English majors.

ENGL 120C. Topics in Composition. 4 Units
Prerequisite(s): ENGL 20 or ENGL 120A. GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Offers a rotating series of topics relevant to composition studies, such as technology-based writing, writing across the curriculum, critical literacy, etc. Introduces students to the theory and practice of the field under consideration. Regardless of the topics, students will explore the major scholarly works of the field and produce writing that analyzes and utilizes the concepts in the area under consideration.
Note: May be repeated for credit as long as topic differs.

ENGL 120P. Professional Writing. 4 Units
Prerequisite(s): ENGL 20 or ENGL 120A. GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Teaches students the most common professional writing genres used in career fields ranging from business to public relations to nonprofit management. Focuses on how business or technical communication is different from academic styles and introduces students to the current writing challenges and practices in these fields. Students will gain instruction and practice composing various essential writing formats, such as memos, reports, and feasibility studies.

ENGL 120R. Topics in Rhetoric. 4 Units
Prerequisite(s): Complete ENGL 20 or ENGL 120A; GWAR certification before Fall 2009; or WPJ score of 80 or above; or 3-unit placement in ENGL 109M/W; or 4-unit placement in ENGL 109M/W + co-enrollment in ENGL 109X; or WPJ score 70/71 + co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Offers a rotating series of topics relevant to rhetorical studies, such as digital rhetoric, cultural rhetorics, contemporary rhetorical theories, etc. Introduces students to the theory and practice of the field under consideration. Regardless of the topic, students will explore the major scholarly works of the field and produce writing that analyzes and utilizes the concepts in the area under consideration.
Note: May be repeated for credit as long as topic differs.

ENGL 120S. Writing in the Social Sciences. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Introduces principles of analyzing and composing texts appropriate for various social science disciplines. Provides practice in analyzing texts in social science journals and in writing abstracts, summaries, and literature reviews. Appropriate for upper-division undergraduate students and beginning graduate students in TESOL and in other social science programs (e.g., psychology, sociology, anthropology, etc.)

ENGL 120X. MLA and APA Style Guides. 1 Unit
Corequisite(s): ENGL 120A, ENGL 198T, a Writing Intensive course, or instructor permission.
Term Typically Offered: Fall, Spring

Students will learn how to format papers, cite sources, and integrate in-text citations into their work according to MLA and APA formatting and style guides.

ENGL 121. Writing Center Tutoring. 1 Unit
Term Typically Offered: Fall, Spring

One-on-one tutoring in reading and writing at the University Writing Center. Student writers will meet with assigned tutor an hour a week. Topics could include understanding assignments, prewriting, revising, reading strategies, editing strategies, integrating research, etc. Students must sign up for a regular tutoring session time during week two of the semester at the University Writing Center.
Note: May be repeated for credit.

Credit/No Credit

ENGL 125A. Literature and Film for Adolescents. 4 Units
Prerequisite(s): ENGL 20 or ENGL 120A and COMS 104 or COMS 4
Term Typically Offered: Fall, Spring

Provides prospective secondary school English teachers with an opportunity to think through important issues related to the planning and implementation of literature programs for adolescents. Equal emphasis will be given to the study of poetry, fiction, non-fiction, drama, and film. The focus will embrace literature from a variety of cultures and periods.

ENGL 125B. Writing and the Young Writer. 3 Units
Prerequisite(s): ENGL 20 or ENGL 120A; and ENGL 110J or ENGL 110Q or ENGL 16
Term Typically Offered: Fall, Spring

Provides an introduction to teaching writing in high school and operates on the assumption that the need for and impact of writing competence for students is interdisciplinary and pervasive. The class has a workshop format, and students will practice many of the strategies studied. The texts will cover theoretical issues in teaching composition and practical methods of implementing theory in public school classrooms.

ENGL 125E. Academic Reading and Writing for Second Language Students. 3 Units
Term Typically Offered: Fall, Spring

Helps prospective teachers to better understand the unique needs of second language students. Covers second language acquisition theory with particular emphasis on the teaching of reading and writing for academic purposes. Practical skills covered will all focus on the particular needs of second language readers and writers, for instance, how to help them to read more efficiently and with greater comprehension, how to write more fluently and accurately in ways that meet the needs and expectations of the academic discourse community.

ENGL 125F. Teaching Oral Skills. 3 Units
Term Typically Offered: Fall, Spring

Provide students with both the necessary background knowledge as well as the specific pedagogical tools for promoting proficiency in spoken interaction, listening skills, and pronunciation in second language/foreign language contexts, specifically, English as a Second Language (ESL) and English as a Foreign Language (EFL).

ENGL 130A. Intermediate Fiction Writing. 4 Units
Prerequisite(s): ENGL 30A or ENGL 30B
Term Typically Offered: Fall, Spring

Workshop for students who already have some experience writing short stories. Students write and polish several stories which they present for critique and commentary. They also take an in-depth look at the theory and craft of fiction-writing, analyze the stories of contemporary writers from diverse ethnic and cultural backgrounds, and learn how to apply what they have learned to their own writing.

ENGL 130B. Intermediate Poetry Writing. 4 Units
Prerequisite(s): ENGL 30A or ENGL 30C.
Term Typically Offered: Fall, Spring

Designed for students interested in developing their poetic expression beyond the basics covered in ENGL 30A and ENGL 30C. Emphasizes practice and experimentation with meters, verse forms, and figures of speech. Focal points for analysis and discussion will be poems and essays by contemporary poets of various aesthetic orientations, as well as work produced by members of the class.

ENGL 130C. Special Topics in Poetry Writing. 0 Units
Prerequisite(s): ENGL 30A or ENGL 30C.
Term Typically Offered: Fall, Spring

Provides students with further opportunity to refine their poetic craft beyond the levels achieved in 30C and 130B. Emphasizes further experimentation with meters, verse forms, and figures of speech as well as questioning the 'rules' of poetry and encouraging students to blur or defy the boundaries of genre. Focal points for analysis and discussion will be poems and essays by contemporary poets of various aesthetic orientations, as well as work produced by members of the class.

ENGL 130D. Meter and Rhythm. 4 Units
Term Typically Offered: Fall, Spring

Offers an in-depth study of prosody including the principles of meter (line measurement) and scansion (the marking of stressed syllables to determine meter and rhythm), as well as examining the relationship of these principles to verse in English. Examines a variety of poetic schemes, tropes, and forms. Three hours, lecture and guided practice.

ENGL 130F. Writing For Television. 4 Units
Term Typically Offered: Fall, Spring

Focuses on training students in video literacy and script writing for the video explosion: educational media, documentaries, and interactive programs.

ENGL 130G. Between Genres: Flash Fiction/Prose Poetry. 4 Units
Term Typically Offered: Fall, Spring

Offers undergraduate poets and fiction writers the opportunity to explore/experiment with the long-standing anti-genre of the poetry/fiction hybrid. For 200 years writers around the world have noted the symbiosis between the genres of poetry and prose. Currently, some of America's most exciting writers are currently exploring the margins between prose poetry, flash fiction, and related evolving forms. Prerequsite: ENGL 30A, ENGL 30B, or ENGL 30C.

ENGL 130J. Writing Feature Film Scripts. 4 Units
Term Typically Offered: Fall, Spring

Workshop designed for students who have little or no previous experience writing for the screen. Students write the synopsis, treatment, and part of the master scene script for a feature film, all of which are polished and revised in a workshop setting. Special attention is given to the dynamics of plot, characterization, and dialogue with an emphasis on the difference between writing for film and writing other kinds of fiction.

ENGL 130M. Art of Autobiography. 4 Units
Prerequisite(s): At least a C- grade in ENGL 30A or 30B, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Students keep a journal and write several drafts of an autobiographical essay which they present for critique and commentary. They also read and analyze several biographies and journals by writers from diverse ethnic and cultural backgrounds.

ENGL 130N. Creative Non-Fiction. 4 Units
Prerequisite(s): ENGL 30A or ENGL 30B.
Term Typically Offered: Fall, Spring

Students write several non-fiction pieces which may include (but are not limited to) autobiography, memoir, nature-writing, travel writing, and literary memoir. Students need not previously have had fiction-writing experience to take this course, but they must be prepared to write literary non-fiction of high quality.

ENGL 130W. Advanced Poetry Writing. 3 Units
Prerequisite(s): ENGL 30A or ENGL 30C
Theory and practice in the writing of poetry at the advanced level. Consists primarily of the preparation and evaluation of student work. Students arc also assigned supplemental readings designed to help them determine their affinity (or lack of affinity) with current poetic theory and practice.

ENGL 130Y. Creative Writing for Young Audiences. 4 Units
Term Typically Offered: Fall, Spring

In this creative writing course students will learn how to write children's literature in a wide array of genres, including picture book texts, early readers, poetry, and middle grade and young adult novels. The course will give an overview of these genres and through portfolio assignments allow students to sample different genres and gain expertise in one particular genre. Prerequisite ENGL 30A or ENGL 30C or ENGL 30B

ENGL 140A. Introduction to Old English. 4 Units
Term Typically Offered: Fall, Spring

Study of the grammar of Old English with particular attention to its survival in the modern language. Shows students how to use their instincts as native speakers of Modern English to acquire a good working sense of the original form of the language. Readings in biblical and historical texts will be supplemented by an introduction to Old English paleography which will allow students to access literature in the original.

ENGL 140B. Medieval Literature. 4 Units
Term Typically Offered: Fall, Spring

Survey of English literature from 1100 to 1500. Students will read texts from the various genres of Middle English literature--romance, lyric, ballad, lay, drama, history--in the dialects of origin. Focuses on how medieval thought both differs from and anticipates modern thought.

ENGL 140C. The English Renaissance. 4 Units
Term Typically Offered: Fall, Spring

The early modern period was a time of exploration, experimentation, and creativity during the sixteenth and early seventeenth centuries in England. The writers of the age include Queen Elizabeth I, Lady Mary Wroth, Sir Thomas Wyatt, Sir Philip Sidney, William Shakespeare, Christopher Marlowe, Edmund Spenser, John Donne, Aemilia Lanyer, and John Milton. In this course, students will explore and analyze representative works by these writers and others, making connections between the writers and the cultural context in which they lived.

ENGL 140E. Restoration & Eighteenth-Century Drama. 4 Units
Term Typically Offered: Fall, Spring

In-depth examination of the drama of late 17th and 18th-century England. Course includes the study of the age itself, the social and political issues of the time as well as its dramatic art, including many of its comedies, which the course it examines in their historical and cultural contexts.

ENGL 140F. British Literature, 1660-1780. 4 Units
Term Typically Offered: Fall, Spring

A period survey of British literature from the Restoration of King Charles II in 1660 through the stirrings of British Romanticism in the last decades of the eighteenth century. Authors to be covered will likely include Dryden, Behn, Rochester, Finch, Swift, Pope, Gay, Montagu, Addison & Steele, Gray, Johnson, Equiano, Goldsmith, and Sheridan.

ENGL 140G. The Eighteenth-Century British Novel. 4 Units
Term Typically Offered: Fall, Spring

The novel as we know it today was invented in the 18th century. Students study the cultural origins of the novel and read several major works by of 18th-century novelists such as Daniel Defoe, Samuel Richardson, Henry Fielding, Fanny Burney, Ann Radcliffe, Laurence Sterne, and Jane Austen, among others.

ENGL 140H. Nineteenth-Century Novel. 4 Units
Term Typically Offered: Fall, Spring

Devoted to exploring the fiction of nineteenth-century British novelists from Jane Austen through Thomas Hardy. Particular attention is paid to prevalent genres, especially the mixing of romance and realism, narrative and plot structures, imagery patterns, character types and anti-types, and thematic concerns, which usually involve some sort of conflict between the self and society, the individual and institutions (or the environment).

ENGL 140I. British Romanticism. 4 Units
Term Typically Offered: Fall, Spring

Examines British literature and culture during the late eighteenth and early nineteenth centuries. Topics may include war and revolution, tourism and the picturesque, genius and imagination, the Gothic, Romanic orientalism and literature and the environment. Writers covered may include Smith, Blake, Wollstonecraft, the Wordsworths, Scott, Coleridge, Austen, de Quincey, Byron, the Shelleys, Hemans and Keats.

ENGL 140J. The Victorian Imagination. 4 Units
Term Typically Offered: Fall, Spring

Explores themes and forms of the Victorian period, stressing the evolving role of the artist and the growth of self-consciousness in verse and prose. Victorian themes like the divided self, the love-duty conflict, and the inevitable crises of faith are recurring problems in the obsessive Victorian debate between flesh and spirit. Analyzes this dialectic in the poetry of Browning, Tennyson, the Pre-Raphaelites and Decadents, in a representative novel, and in the prose of Ruskin, Mill, and Pater.

ENGL 140K. Modern British Literature, 1900-Present. 3 Units
Term Typically Offered: Fall, Spring

In-depth examination of some of the important British texts in fiction, poetry, and drama from 1900 to the present. The works dramatize the important historical, social and aesthetic changes in a century which saw the collapse of the British Empire, the spread of democracy, the rise of Modernism and the Absurd in the arts, and the continuing struggle of the personal statement in an impersonal world.

ENGL 140L. Modern British Fiction, 1900-Present. 4 Units
Term Typically Offered: Fall, Spring

Survey of British fiction from 1900 to the present which covers the struggle between traditional Realism and Modernism in the novel, the decline and fall of the British Empire and the rise of the former colonies as purveyors of fictions in English in their own right, and the development of new experimental forms in the last decades of the 20th century.

ENGL 140M. Modern British Drama, 1889-Present. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

In-depth examination of British drama from the arrival of Ibsen's A Doll¿s House on the British stage (and Shaw's publication of his influential treatise The Quintessence of Ibsenism), both laying to rest for serious artists the moralistic, bourgeois theater of the late 19th century. Includes study of various dramatic movements in Britain¿including realism, absurdism, kitchen-sink naturalism, surrealism, epic theater, expressionism.

ENGL 140R. Renaissance Drama. 4 Units
Term Typically Offered: Fall, Spring

Readings in and analysis of English drama written in the period, roughly, from 1500-1660. Provides a survey of playwrights and genres from the entire period or a focus on a particular theme or a grouping of authors. Students will study texts as well as the historical, political, cultural, social, sexual, and religious contexts in which the playwrights of the era composed their works.

ENGL 140Z. Studies in British Literature. 4 Units
Term Typically Offered: Fall, Spring

Topics in periods and movements in the literature of Britain. Course may focus on a limited period (e.g. The Edwardian Age), a single author (e .g. Anthony Trollope or Margery Kempe), an authorial dialogue (e.g. Shakespeare and Wilde or G.M. Hopkins and Christina Rossetti), or a unique literary feature, theme, or structure (e.g. the Sonnet or Literature and the Law).

ENGL 141A. The Essential Shakespeare. 4 Units
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Exploration of Shakespeare's most representative works. The course syllabus usually includes his sonnets and non-dramatic poetry as well as plays from both early and later periods of his career. Class discussions will include Shakespeare's typical themes, conventions, and techniques, his development of character and situation, and his relationship to the culture and values of both his own and subsequent ages.

ENGL 141B. Shakespop: Shakespeare and Popular Culture. 3 Units
Term Typically Offered: Fall, Spring

The works of William Shakespeare circulate in our culture in a wide variety of ways - in music, art, dance, film, television, advertising, management manuals, self-help books, etc. sometimes staying close to the original texts and at other times barley skimming the surface for cultural capital. This course will examine the dynamic relationships between Shakespeare in its diverse forms and popular culture by examining various instances of Shakespearean appropriation and adaptation. Themes include Shakespeare in Love, War, Business, and Youth Culture.

ENGL 145A. Chaucer - Canterbury Tales. 4 Units
Term Typically Offered: Fall, Spring

Reading of The Canterbury Tales in Middle English. Chaucer's great unfinished poem will be investigated as the pinnacle of literary achievement in the English Middle Ages, a work that attempts, like Dante's Divine Comedy, to account for all the issues and problems of human life as medieval thinkers had come to regard them.

ENGL 145B. Shakespeare - Early Plays, 1592-1600. 3 Units
Term Typically Offered: Fall, Spring

Exploration of representative plays from roughly the first half of Shakespeare's career as a dramatist, including early and middle comedies (e.g., A Midsummer Night's Dream, As You Like It), early and middle tragedies (e.g. Richard II, Henry IV, Part One), while situating the plays within their cultural and historical context.)

ENGL 145C. Shakespeare - Later Plays, 1600-1612. 3 Units
Term Typically Offered: Fall, Spring

Exploration of representative plays from roughly the second half of Shakespeare's career as a dramatist, with emphasis on the major tragedies (Hamlet, Othello, King Lear, and Macbeth), but also including the middle comedies (e.g., Twelfth Night, Measure for Measure) and the later romances (e.g., The Winter's Tale, The Tempest), while situating the plays within their cultural and historic context.

ENGL 145I. John Milton. 3 Units
Term Typically Offered: Fall, Spring

Students study the major poems of Milton-among them Comus, 'Lycidas,' Paradise Lost, Paradise Regained, and Samson Agonistes-giving special attention to Paradise Lost. Students will also consider such prose works as Of Education, the divorce tracts, and Areopagitica, Milton's famous argument against censorship. Finally, it includes lectures on the Puritan Revolution of 1640-60 and Milton's role in it.

ENGL 150A. Early American Literature. 4 Units
Term Typically Offered: Fall, Spring

Focusing on the literature of early American settlement, the literature that first defined our nation. Students analyze such works as oral literature of Native America, earliest writings of Spanish explorers, Puritan settlement literature, Captivity Narratives of the 17th through 19th centuries, Witchcraft Narratives, and Slave Narratives. Students might also study connections to later works (e.g., Puritan literature and Hawthorne's Scarlet Letter, Witchcraft narratives and Miller's The Crucible).

ENGL 150B. American Romanticism. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on one of the great periods in the history of literature. It has appropriately been called the American Renaissance. Writers covered might include but not be limited to Poe, Hawthorne, Emerson, Thoreau, Fuller, Melville, Whitman, Dickinson.

ENGL 150C. American Realism. 3 Units
Term Typically Offered: Fall, Spring

Examines American literature written during the period after the Civil War, a time of unprecedented change that transformed America from rural, agricultural, and homogeneous culture into its urban, industrial, heterogeneous counterpart. It investigates how the literature of this period reflected these changes and simultaneously tried to reconcile them with the values of an earlier America. The magnitude of this endeavor produced a remarkable literary heritage for the 20th century.

ENGL 150D. American Modernist Fiction, 1910-1950. 4 Units
Term Typically Offered: Fall, Spring

Survey of the important historical movements and conflicts in American literature, including the development of Realism and Naturalism, the experimental Modernist movement of the twenties, the populist literature of the thirties and the development of psychological realism in the forties.

ENGL 150E. American Poetry, 1910-1950. 4 Units
Term Typically Offered: Fall, Spring

Many scholars argue that American literature's greatest achievement in the twentieth century literature is in the genre of poetry. Offers a survey of such movements as the 'New Poetry,' Modernism, Imagism, Primitivism, and Postmodernism. Major figures will include, but not be limited to, Robinson, Frost, Eliot, Pound, Millay, Cummings, Stevens, W.C. Williams, Jeffers, Moore, and Hughes.

ENGL 150F. Contemporary American Fiction, 1950-Present. 3 Units
Term Typically Offered: Fall, Spring

Surveys American fiction in the decades immediately following World War II. These novels deal with themes such as exhaustion, social unrest, historical conspiracy, and political coercion. Representative figures include, but are not limited to, Ralph Ellison, John Barth, Philip Roth, Joan Didion, Thomas Berger, Vladimir Nabokov, Marilynne Robinson, Thomas Pynchon.

ENGL 150G. Contemporary American Poetry, 1950-Present. 4 Units
Term Typically Offered: Fall, Spring

Examines the richness of American poetry since World War II giving some consideration to the impact of recent world poetry brought to us by our skillful poet/translators.

ENGL 150H. Recent American Fiction, 1980-Present. 4 Units
Term Typically Offered: Fall, Spring

Introduction to the remarkable flowering of American fiction in the late decades of the twentieth century. The primary focus is to scrutinize a collection of novels for which there is no firmly established critical opinion but which are nonetheless distinguished fictional accomplishments. Emphasis is placed on revealing the diversity of voices and the ways in which these writers demonstrate the continuing possibilities for artistic variety and experimentation.

ENGL 150I. Modern American Short Story. 4 Units
Term Typically Offered: Fall, Spring

Since the publication of Washington Irving's 'Legend of Sleepy Hollow,' Americans have excelled at the genre of the short story. Offers a survey of traditional 'masters' and recent innovators. Provides an opportunity to read a wide variety of writers (such as Wharton, Chopin, Crane, Gilman, James, Anderson, Hemingway, Faulkner, Ellison, O'Connor, Barth, Oates, Proulx, Roth, Carvey, and Welty) , and examine a range of forms, themes and experiences that reflect and shape American culture.

ENGL 150J. Twentieth-Century American Drama. 4 Units
Term Typically Offered: Fall, Spring

In-depth examination of American drama, starting with Eugene O'Neill. Traces American drama from the early decades of the 20th century to the present, examining the plays themselves¿their themes, dramatic idioms, stage craft and European influences¿in their social, historical and artistic contexts.

ENGL 150L. Lost Generation Writers. 4 Units
Term Typically Offered: Fall, Spring

Examines one of the most remarkable flowerings of literary achievement in American letters, the writing of 'The Lost Generation,' authors born between 1885 and 1900. Unified by a profound disillusionment with American culture after World War I, writers such as T.S. Eliot, Eugene O'Neill, William Faulkner, and Ernest Hemingway produced enduring modern masterpieces. In the process they demonstrated that their generation might find in art what had been lost on the battlefield.

ENGL 150M. California Literature. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the California phenomenon¿the place where the American Dream strives to reach fulfillment 'because here,' according to Sacramento-native Joan Didion, 'beneath that immense bleached sky, is where we run out of continent'¿and how this phenomenon has captivated writers for centuries. Presents a cross-section of literary works (fiction, poetry, essays, etc.) while examining and interrogating various literary manifestations of California golden myths and grayer realities.

ENGL 150P. The American Gothic. 4 Units
Term Typically Offered: Fall, Spring

Explores American works written in the Gothic mode. In novels, captivity narratives, short stories, and poetry, we will investigate representations of terrifying, uncanny, and supernatural phenomena. As we trace the development of the Gothic mode in American literature, we will examine how narratives and poetic depictions of horror rehearse our individual and cultural fears about sexuality, race, violation, rebellion, madness, and death, and we will inquire into that thrill of macabre pleasure that attends the exploration of the darker side.

ENGL 150R. American Regionalism. 4 Units
Term Typically Offered: Fall, Spring

Examines literature by American regionalist writers during the late-nineteenth century. Topics may include nationalism, sectional divides, local color, dialect fiction, conditions of publication, and emerging women writers and writers of color. Students will investigate the role that regionalism plays in relation to literary representations that depict the conflicting and complex social, cultural, and historical formation of racialized and gendered identities. Independent-online project required.

ENGL 155E. Hemingway and Fitzgerald. 4 Units
Term Typically Offered: Fall, Spring

Intensive study of two of the most important American writers of the 20th century: Ernest Hemingway and F. Scott Fitzgerald. This focus on two authors allows students to read them in-depth, to examine the dynamics of their friendship, and to explore the similarities and differences in their responses to World War I and the Great Depression.

ENGL 165A. A Survey of Irish Literature. 3 Units
Term Typically Offered: Fall, Spring

Survey of Irish literature, beginning with various myths, moving through the bardic period and eighteenth and nineteenth centuries, and then centering upon the 'Irish Renaissance' (1885-1940).Covers the genres of poetry, drama, and fiction, and representative figures include W.B. Yeats, Patrick Kavanagh, James Joyce, Flann O'Brien, John Synge, Lady Gregory, Sean O'Casey, Sean O'Faolain, and Frank O'Connor.

ENGL 165D. Postcolonial Literature. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Deals with the considerable body of Postcolonial literature written in English. Many of the writers come from countries of the former British Commonwealth, including Achebe, Desai, Emccheta, Naipaul, and Rushdie. It focuses on the literary, cultural and political environments in which the texts are situated and on their relationship to the wider tradition of literature in English.

ENGL 165F. Caribbean Literature. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the literature--novels, shorts stories, poetry, and plays--by a wide range of Caribbean authors, among whom are two recent Nobel Prize winners, Derek Walcott and V. S. Naipaul. Students will learn to appreciate the cultural diversity of this post-colonial literature and will become familiar with its important themes and stylistic techniques. Students will also experience the multi-dialectal richness and flavor of the Anglophone Caribbean as expressed by authors from linguistically diverse islands.

ENGL 170A. Fantasy. 4 Units
Term Typically Offered: Fall, Spring

Helps students develop their own working definition of fantasy by examining its central narrative and dramatic structures, image patters, and thematic preoccupations. At the same time, encourages students to compare these motifs with those of so called 'realist' fiction so they may understand how blurred conventional distinctions between 'fantasy' and 'reality' actually are.

ENGL 170D. Drama. 4 Units
Term Typically Offered: Fall, Spring

Offers a survey of dramatic literature¿tragedy, comedy, tragi-comedy¿with plays both modern and classical. Focus is on analysis of genre, theme, structure, and interpretation of the plays. Since plays are meant to be seen as well as read, we will screen selections from our plays to deepen our understanding and enjoyment.

ENGL 170E. Short Fiction. 4 Units
Term Typically Offered: Fall, Spring

Survey of the art of short fiction through readings of a variety of world writers. Representative figures include, but are not limited to, Melville, James, Chopin, Maupassant, Chekhov, Saki, Cather, Joyce, Kafka, Dinesen, Hemingway, Borges, O'Connor, Munro, Carver, Everett, Lahiri, etc.

ENGL 170G. Modern Poetry. 4 Units
Term Typically Offered: Fall, Spring

General course in English language poetry written in the late 19th and early 20th century poetry, a period of great innovation in poetry. It focuses on approach: what is the modern poem and how does one read it? Emphasis is placed on the function of image, voice, line break, rhythm, etc. Writers might include Whitman, Dickinson, Yeats, Pound, Eliot, Hardy, and Hopkins.

ENGL 170H. Introduction To Comedy. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Focuses on various comic genres and theories--from 4th century BC to the present. It examines romantic comedy, tragicomedy, comedies of manners, of humors, of menace; farce, satire, slapstick. Students also read widely in comic theory, examining aspects psychological, phenomenological, aesthetic--in drama, fiction, poetry and prose.

ENGL 170I. Introduction To Tragedy. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on the literatures and theories of tragedy--from 5th century BC to the present--from Sophocles to Mamet, from Flaubert to Stoppard. It examines the 'tragic vision' in light of individual genres, times, social mores, religious beliefs and expectations, using Aristotle for both its touchstone and lodestar.

ENGL 170K. Masters of the Short Story. 4 Units
Term Typically Offered: Fall, Spring

Concentrates on the works of a few distinguished writers of short fiction. In each case the writer is one with a widely acknowledged reputation. Emphasis is upon exploring how writers shape and manipulate the genre to produce lasting, individual, distinctive works. Representative figures include, but are not limited to, James Joyce, Nathaniel Hawthorne, Sherwood Anderson, Ernest Hemingway, Frank O'Connor, Flannery O'Connor, John Barth, D.H. Lawrence, and Eudora Welty.

ENGL 170M. Literatures Of Sexuality. 4 Units
Term Typically Offered: Fall, Spring

Examines the relation between sexuality and literature, exploring different conceptions of sexuality over time and across cultures and the rhetorical strategies employed in representations of sexuality in literary texts. Topics may include the modern connection between sexuality and identity; the links between nation, race, and sexuality; and the treatment of homosexuality and women's sexuality. Throughout, careful attention will be paid to the literary forms and discursive strategies (e.g., the confessional mode, modern scientific discourses) used to represent sexuality.

ENGL 170N. Narrative Poetry. 4 Units
Term Typically Offered: Fall, Spring

Provides an introduction to the genre of narrative poetry, a historical survey of the vicissitudes of its reception from the nineteenth century to the present, and a close study of representative narrative poems by poets who have excelled in this mode.

ENGL 170Z. Twentieth-Century Fiction. 4 Units
Term Typically Offered: Fall, Spring

Study of twentieth-century fiction from a variety of ethnic and social backgrounds, including and moving beyond British Modernism. Readings explore English as a literary language used across the globe, ranging from Paris to Mazatlán, Calcutta to San Francisco.

ENGL 180A. Forms of African-American Poetry. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on four or more African-American poets, representing a historical succession of literary periods.

ENGL 180B. Forms of African-American Fiction. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on four or more African-American writers of fiction, surveying texts representing a historical succession of literary periods.

ENGL 180F. Major African-American Authors. 4 Units
Term Typically Offered: Fall, Spring

Employing a lecture-discussion format, involves studies in a single literary genre or a combination of literary genres emphasizing the work of three or fewer African-American authors.

ENGL 180H. American Identities: In the Intersection of Race, Gender, and Ethnicity. 4 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Uses a team-teaching approach to sample a range of diverse American literatures. Texts are selected by the team to represent both mainstream and marginalized groups and to reflect the individual professors' interests and expertise. Examines the commonalities that cross ethnic, racial, class, and gender boundaries as well as the differences that enrich our cultural identity. Independent, online project required.

ENGL 180J. Jewish American Literature. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Students will examine a rich tradition of Jewish American literature in the context of a complex American multicultural narrative. Topics include the immigrant experience, assimilation, alienation, responses to the Holocaust and other forms of anti-Semitism, the place of Israel in the Jewish American imagination, and a contemporary rediscovery of reconstruction of Jewishness and Judaism. Students will interrogate what constitutes Jewish American identity and defines its literature in a culture that is itself conflicted about its secular/religious ethos and the degree to which subjectivity is determined by 'consent and/or descent.'

ENGL 180L. Chicano Literature. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Gives students an overview of Chicano Literature. Students examine both contemporary Chicano poetry and fiction.

ENGL 180M. Asian American Literature. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Designed to help students gain an understanding of the diversity as well as the similarities among various Asian American writers. How do the categories of race, gender, and class affect the way different characters construct their cultural experiences and fashion their personal identities? By studying the variety of processes through which different protagonists 'become American'--through assimilation, appropriation, or 'translation'--students should arrive at a better understanding of how we all construct our own identities.

ENGL 180Z. Topics in Multi-Ethnic Literatures. 4 Units
Term Typically Offered: Fall, Spring

Comparative analysis of two or more ethnic literary and cultural productions with an emphasis on relationships among history, politics, and culture in American, British, or World literatures.
Note: May be repeated twice for credit as topics vary.

ENGL 185B. Twentieth Century Fiction by Women. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Covers short stories and novels spanning the century and including women writers from a variety of nationalities, class, cultural and ethnic groups. Emphasizes what Virginia Woolf calls 'the delicate transaction between a writer and the spirit of the age' and works with the writers presented so as to elicit the developing strands of influence and critique that bring these disparate writers into a common dialogue.

ENGL 185C. British Women Novelists. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the ways in which women writers of the 19th and 20th centuries concern themselves with questions of the differences in male and female experience and how those differences affect their writing. Students will study the portrayal in fiction of the evolution of the 'modern woman'--with the conflicts between self and other, dependence and independence, love and power that are part of that process.

ENGL 185D. American Women Writers. 4 Units
Term Typically Offered: Fall, Spring

Focuses on women writers primarily from the early 20th century with an emphasis on how gender expectations affect people, society, novels, poems. Students study the theme of awakening, the roles that families, friends, class, social expectations and conditions play in the development of individuality and self-awareness. Examines implications of power relationships and certain areas of conflict, such as those between self and other, repression and expression, inner and outer, dependence and independence, love and power.

ENGL 190D. Detective Fiction. 4 Units
Term Typically Offered: Fall, Spring

Readings in and analysis of crime and detective fictions (novels, short stories, plays, etc.). Crime fiction continually asks us what do we know about people and events and how do we know it. Investigates a variety of texts that address this desire to know and its connections to the mysterious and the criminal. Discussions of this popular genre will address the ways in which an obsession with crime and punishment manifests itself in various cultures and cultural moments.

ENGL 190H. The Supernatural in Literature. 4 Units
Term Typically Offered: Fall, Spring

Approaches supernatural literature from the perspective that, regardless of how bizarre or fantastical a literary work may seem, it deserves serious scholarly study because it represents the realism of apparent human experiences and provides readers with access to the inner workings of the human mind. Readings include Ambrose Bierce, H.P. Lovecraft, Edgar Allan Poe, Lord Dunsany, Fitz-James O'Brien, and contemporary writers from around the world.

ENGL 190J. Tolkien:Lord Of The Rings. 4 Units
Term Typically Offered: Fall, Spring

Helps students understand the primary structures, images, and themes informing Tolkien's Middle Earth and the ways these link the medieval worldview with modern, and even postmodern, wish-and fear-fulfillments. Students will read Tolkien's criticism, poetry, short tales, The Hobbit, The Lord of the Rings trilogy, and selections from The Silmarillion.

ENGL 190P. Popular Literature and Culture. 4 Units
Term Typically Offered: Fall, Spring

The study of popular texts through the various lenses of literary analysis. Students will work with a variety of texts, which might include genre fiction, graphic novels and comics, film and television, and other digital media, to consider the ways and whys of their popularity, as well as their impact, both historical and contemporaneous, on literature, audience, and culture.

ENGL 190Q. LGBTQ Literature. 4 Units
Term Typically Offered: Fall, Spring

Readings in and analysis of literature by and about lesbian, gay, bisexual, transgender, and queer creators. Students will work with a variety of texts (fiction, poetry, film, nonfiction) about LGBTQ identities; students will also come to understand the historical contexts and shifting theoretical paradigms that have shaped and reshaped conceptions of sexuality.

ENGL 190R. Romance Fiction. 4 Units
Term Typically Offered: Fall, Spring

Readings in and analysis of romance fictions (primarily novels). Romances continually promise emotional (and sexual) fulfillment, but what do readers of romance novels get from this reading experience? Discussions of this popular genre will address the ways in which the pursuit of love and companionship and the indulgence in lust and passion manifest themselves in various cultural moments; critical materials will help theorize the appeals, dangers, and uses of romance fiction.

ENGL 190V. Great Drama on Video. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Studies and evaluates a selection of dramas on videos, such as but not limited to A Streetcar Named Desire, Death of a Salesman, Doll's House, Hamlet, Oedipus, Pygmalion, and Rosencrantz and Guildenstern.

ENGL 191A. Masterpieces of the Cinema. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Conducted by lecture and discussion. Students see a selection of the best, most enduring, most influential films made during the last hundred years and explore the historic, aesthetic, and philosophical reasons these films have generally been acknowledged as masterpieces.

ENGL 195A. Writing Center Theory and Practice: Internships. 4 Units
Term Typically Offered: Fall, Spring

Provides interns with an opportunity to apply tutoring principles while working at tutors in the writing center.
Note: ENGL 195A is a paired course with ENGL 410A, which meets at the same time in the same room. The graduate level class has a significantly increased reading, writing, and research component. May be repeated for up to 8 units of credit.

Credit/No Credit

ENGL 195C. Internship In Field Work. 4 Units
Term Typically Offered: Fall, Spring

Work experience in an area related to the English major. Credit/No Credit
Credit/No Credit

ENGL 195W. Writing Programs Internship. 4 Units
Term Typically Offered: Fall, Spring

Students will work with a Composition faculty member to complete a project for the campus writing program, the University Reading and Writing Center, the Graduation Writing Assessment Requirement, or the Writing Across the Curriculum Program. Students should contact the appropriate program coordinator to register for the course and design a project.
Note: May be repeated for credit if topic of internship differs.

ENGL 197A. Film -- Horror, Comedy, Science-Fiction. 4 Units
Term Typically Offered: Fall, Spring

Major genres of the cinema conducted by lecture and discussion. Students see a selection of films from the major genres including (but not limited to) horror, science fiction, and comedy; learn about the history and development of each genre; and explore the commercial, aesthetic, social, and philosophical forces that have shaped the major film genres.

ENGL 197G. Films of Great Directors. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the role of the director in the creation of excellent films. Students will view, analyze, and discuss memorable films by great directors, concentrating on their personal styles, cinematic strategies, and typical themes. Representative examples will include such filmmakers as Chaplin, Keaton, Renoir, Welles, Ford, Truffaut, Bunuel, Kurosawa, Hitchcock, Bergman, and others.

ENGL 197I. Film - Depression Giggles. 4 Units
Term Typically Offered: Fall, Spring

A semester of films, readings, and discussions focused on what is often called the ¿Golden Age of Hollywood,¿ the 1930s and early 1940s. Class will study as well the studio era, the star system, the development of cinematic genres, and censorship under the Production Code¿both when it was more strictly enforced [1934-after] and when it was not [1930-1934].

ENGL 197K. Fiction Into Film. 4 Units
Term Typically Offered: Fall, Spring

Students see a selection of films adapted from novels, short stories, or other literary works; read the original work from which the film was adapted; and explore the history, aesthetics, and craft of adapting fiction to film.

ENGL 197L. The American Film. 4 Units
Term Typically Offered: Fall, Spring

Focus on American films. Topics may cover a range of periods, movements, genres, styles and issues.

ENGL 197M. Recent American Films. 3 Units
Term Typically Offered: Fall, Spring

Emphasizes the trends, themes, forms, and cinematic techniques, technological advances, and 'revisionist' genres of recent American films of approximately the last twenty years, partly as a way of analyzing the American film conventions, partly as a means of examining our contemporary culture, but primarily as a means of analyzing and understanding the films themselves.

ENGL 197P. British Film. 4 Units
Term Typically Offered: Fall, Spring

Screenings and analysis of films produced in Great Britain. Students will view a variety of British films, starting possibly with silents and early Hitchcock and ending with films from the contemporary moment. Students will come to understand the historical and artistic contexts of the films and encounter the shifting definitions of what represents 'British' on the screens of the cinema and in the minds of viewers. May provide a survey of films or focus on particular themes, studios, or directors.

ENGL 197R. Films Of Alfred Hitchcock. 4 Units
Term Typically Offered: Fall, Spring

Traces Hitchcock's 'game with the audience' from its beginnings in silent films, through its British period, to its American conclusion. It closely examines important sequences, shots, images, character types, and themes. Students will view several of Hitchcock's classic films in their entirety.

ENGL 198T. Senior Seminar In English. 3 Units
Prerequisite(s): ENGL 120A and a minimum of 90 units.
Term Typically Offered: Fall, Spring

Features specialized topics taught by a variety of instructors depending upon the semester. Topics can include subject matter from literature, linguistics, English education, creative writing, composition/rhetoric, and film. Tend to the production of a significant research paper, a paper which will emphasize the student's ability to: Analyze and interpret multiple texts; Integrate primary and secondary sources; Construct a sustained, coherent, and rhetorically sophisticated piece of writing.

ENGL 198X. Senior Portfolio. 2 Units
Prerequisite(s): ENGL 120A, at least 80 units, and one of the following: ENGL 98, 100B, 100Z, 105, 120C, 120P, 120R, 125A,125B,130A, 30A, 30B, 30C, 130C, 130D, 130F, 130G, 130J, 130M, 130N, 130W, 130Y, 140A, 140B, 140C, 140E, 140F, 140G, 140H, 140I, 140J, 140K, 140L, 140M, 140R, 140Z, 145A, 145B, 145C, 145I, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150I, 150J, 150L,150M, 150P, 150R, 155E, 165D, 165F, 170A, 170D, 170E, 170G, 170H, 170I, 170K, 170M, 170N, 170Z, 180A, 180B, 180F, 180H, 180L, 180M,180Z, 185B, 185C, 185D, 190D, 190H, 190J, 190P, 190Q, 190R, 190V, 195A, 195C, 195C, 195W, 197A, 197G, 197I, 197K, 197L, 197M, 197P, 197R.
Term Typically Offered: Fall, Spring

In this course, students, as one element of their capstone experience, will reflect on their work in their classes and portfolio projects; the English major, its structure, curriculum, and values; their career goals and life-long learning; and the meanings of education and literacies in the academy and popular cultures. Students will edit and finalize their senior portfolio.
Note: On-line course

Credit/No Credit

ENGL 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

ENGL 200. Methods and Materials of English Studies. 3 Units
Term Typically Offered: Fall, Spring

Required for all MA candidates in English.

ENGL 200A. Methods and Materials of Literary Research. 4 Units
Term Typically Offered: Fall, Spring

Required of all MA candidates in English under Plans A and C and Creative Writing Plan B, acquaints students with principal sources and techniques of literary research. It also introduces students to contemporary critical approaches to literature. Students should take this course as early as possible in their graduate careers, preferably in the first semester. Students prepare an annotated bibliography and a paper employing a particular critical approach to one of a selection of anchor texts.
Note: Graduate Writing Intensive (GWI) course.

ENGL 200D. Materials and Methods of TESOL Research. 3 Units
Term Typically Offered: Fall, Spring

Explores research design and testing methods for quantitative and qualitative research in second language acquisition (SLA). Students develop the ability to read second language acquisition research critically; study a variety of theoretical perspectives represented in current SLA research; and review the history of the current 'burning issues' in SLA.
Note: Graduate Writing Intensive (GWI) course.

ENGL 200E. Curriculum and Assessment Design for Language Classrooms. 3 Units
Term Typically Offered: Fall, Spring

Examine the interplay between curriculum design and classroom assessment. The goals are 1) to familiarize prospective teachers with the terminology and practices underlying curriculum design and classroom assessment; 2) to develop the ability to analyze student needs and propose appropriate changes to curricula; and 3) to construct and implement language tests that reflect curricula.
Note: May be counted as an elective for the M.A. TESOL program.

ENGL 201D. Contemporary Theory. 4 Units
Term Typically Offered: Fall, Spring

Introduces students to the place of theoretical texts in literary studies and engages with theory through a survey of approaches and/or a thematic inquiry; examples of thematic approaches might include but are not limited to ¿formalism and new formalism,¿ ¿critical race studies, ¿ ¿theories of poetics,¿ and ¿the linguistic turn.¿

ENGL 210B. Sociolinguistics and TESOL. 3 Units
Term Typically Offered: Fall, Spring

ENGL 210C. Technology in Second Language Teaching. 3 Units
Term Typically Offered: Summer only

Prepares language teachers to effectively integrate technology into classrooms. Examines theoretical rationales for using computer-assisted language learning, the range of uses of technology in classrooms, and best practice. Develops students' technological literacy and ability to critically evaluate computer-assisted language teaching materials.
Cross Listed: ENGL 110C; only one may be counted for credit.

ENGL 210G. Second Language Acquisition. 3 Units
Prerequisite(s): ENGL 200D.
Term Typically Offered: Fall, Spring

Examines the factors affecting the acquisition of a second language, focusing on research in this area since 1970. Topics covered are: transfer and the role of the first language; developmental sequences; the role of input, interaction and output; cognitive and personality variables, including age; and the role of formal instruction and error correction.

ENGL 215A. Reading/Vocabulary Acquisition. 3 Units
Term Typically Offered: Fall, Spring

Preparation of teachers of English to speakers of other languages. Examines the psycholinguistic bases of the reading process in ESL, provides opportunities for seminars to test reading practices in peer demonstrations, and explores the fundamentals of testing, evaluation, and syllabus design in the ESL curriculum. Particular attention for reading and vocabulary will be given to miscue analysis and acquisition theory.

ENGL 215B. ESL Writing/Composition. 3 Units
Term Typically Offered: Fall, Spring

Provides the groundwork to prepare teachers of English to speakers of other languages for composition instruction. An examination of the theoretical bases of language acquisition, composing process, and correction/revision strategies that will enable students to plan and demonstrate writing lessons to their peers. Consideration of traditional tests of writing, such as the TOEFL, the WPJ, and innovative forms of evaluation are integrated with syllabus design and text evaluation.

ENGL 215C. Pedagogical Grammar for TESOL. 3 Units
Term Typically Offered: Fall, Spring

Examines those areas of English grammar that are typically taught to non-native speakers. The goals are 1) to familiarize prospective ESL teachers with terminology and analyses that can be used in the classroom; 2) to develop the ability to explain and exemplify grammatical phenomena in terms accessible to ESL students; 3) to review sample materials and techniques for teaching English grammar to non-native speakers.

ENGL 215D. Pedagogy of Spoken English. 3 Units
Term Typically Offered: Fall, Spring

Examines aspects of spoken English that are typically taught to non-native speakers. The goals are 1) to familiarize prospective ESL teachers with terminology and analyses that can be used in the classroom; 2) to develop the ability to analyze student difficulties and provide appropriate help; 3) to review sample materials and techniques for teaching spoken English to non-native speakers.

ENGL 220A. Teaching College Composition. 4 Units
Term Typically Offered: Fall, Spring

Designed for prospective community college and university writing instructors. It focuses on theory and research in rhetoric, composition, and cognitive development and on practical, pedagogical classroom strategies. Students discuss a variety of theories and research studies and then apply writing theory to classroom strategies, design lessons, assignments, and syllabi, and practice analyzing and responding to student writing; and prepare a teacher portfolio.
Note: Graduate Writing Intensive (GWI) course.

ENGL 220C. Topics in Composition Studies. 4 Units
Prerequisite(s): ENGL 220A
Term Typically Offered: Fall, Spring

Rotating series of topics relevant to composition studies. Regardless of the topic, students will explore the history of the field, the theory and practice of the field, the major scholarly works of the field, and the relationship of the field of study to the broader field of composition and rhetoric.

ENGL 220D. Teaching and Composition Research. 4 Units
Term Typically Offered: Fall, Spring

Examines the history and current status of research methods and methodologies in Composition Studies. It explores both producing and consuming research -- studying how and why research has been conducted and how it has been understood and put to practical use by readers of composition research.

ENGL 220P. Professional Writing. 4 Units
Term Typically Offered: Fall, Spring

Examines theories that inform the practices of professional writers and applies theoretical principles to some common professional writing genres used in career fields ranging from business to public relations to nonprofit management. Focuses on how business or technical communication is different from academic styles and introduces students to the current writing challenges and practices in these fields.

ENGL 220R. Topics in Rhetorical Theory and Practice. 4 Units
Term Typically Offered: Fall, Spring

Designed to help students learn about and apply rhetorical theory. Its goal is to introduce graduate students to the history and theory of rhetorical movements after--or outside of--the rhetorics of Western antiquity. Evaluation will be based on weekly journal responses to readings, a major paper on rhetorical theories, and a course portfolio.

ENGL 220W. Writing in Your Discipline. 3 Units
Prerequisite(s): Graduate GWAR placement Score of 40 or a GWI course grade of 'B-' or lower
Term Typically Offered: Fall, Spring

Writing workshop course designed to immerse graduate students in the discourse of their disciplines; required for graduate students who have received a 3 unit placement on the Writing Placement for Graduate Students (WPG). Focuses on the writing process, text-based academic writing in various academic genres, revising, and editing. Students will produce 5000 words. Includes assessment via Course Portfolio.

ENGL 222. Understanding Multidisciplinarity in Writing Studies. 1 Unit
Term Typically Offered: Fall, Spring

The discipline of Writing Studies has roots in a number of areas of scholarly inquiry. Some disciplines that have contributed to the development of the field include Literary Studies, Linguistics, Communications, Information Technology, Philosophy, Library Science, Psychology, and Education. In this course, students will evaluate a theory or concept presented in a discipline outside of Writing. Required for students in the MA in Composition, Rhetoric, and Professional writing who are taking a ENGL 215B or another three-unit elective.

ENGL 225A. Theories of Teaching Literature. 3 Units
Term Typically Offered: Fall, Spring

Introduction to theories of teaching literature so students who intend to teach at the college level have examined their assumptions and options before they develop their teaching practices. Organized around three questions: Why do we teach literature? What do we teach? How do we teach?

ENGL 225C. Theoretical Issues in Adult Literacies. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to current theories surrounding the pedagogies and politics of adult literacies within a wide variety of contexts, including community colleges, prisons, and community projects. Incorporates information on technological literacies, information literacies, cultural literacies, and multiliteracies. In addition, students will be partnered with community literacy experts and required to complete formal observations of adult reading classrooms throughout the semester, fostering collaboration between the local community and the university. Cross-listed: EDTE 225C; only one may be counted for credit.

ENGL 230A. Writing Fiction. 4 Units
Term Typically Offered: Fall, Spring

Seminar in the workshop format designed for experienced writers of fiction. It is designed to provide intensive instruction in the theory and craft of writing short stories, novels, and screenplays.

ENGL 230B. Advanced Poetry Writing. 4 Units
Term Typically Offered: Fall, Spring

Theory and practice in the writing of poetry. Consists primarily of the preparation and evaluation of student work. Students are also be assigned supplemental readings designed to help them determine their affinity (or lack of affinity) with current poetic theory and practice.

ENGL 230D. Meter and Rhythm. 4 Units
Term Typically Offered: Fall, Spring

In-depth study of prosody including the principles of meter (line measurement) and scansion (the marking of stressed and unstressed syllables to determine meter and rhythm), as well as examining the relationship of these principles to verse in English. Examines a variety of poetic schemes, tropes, and forms. Lecture and guided practice.

ENGL 230E. Writing and Theorizing Memoir. 4 Units
Term Typically Offered: Fall, Spring

Examines the craft of writing memoir and creative nonfiction as well as the theory and history of contemporary memoir writing. Students will write and workshop their own memoirs and creative nonfiction. Introduces students to literary and philosophical theories of memory and writing as well as look at contemporary memoirs written in a variety of styles.

ENGL 230G. Between Genres: Flash Fiction/Prose Poetry. 4 Units
Term Typically Offered: Fall, Spring

English 230G offers graduate poets and fiction writers the opportunity to explore/experiment with the long-standing anti-genre of the poetry/fiction hybrid. For 200 years writers around the world have noted the symbiosis between the genres of poetry and prose. Currently, some of America's most exciting writers are currently exploring the margins between prose poetry, flash fiction, and related evolving forms.

ENGL 230X. Master Class in Writing Fiction. 4 Units
Prerequisite(s): ENGL 130A, or ENGL 130M, or ENGL 130N, or ENGL 230A or instructor permission.
Term Typically Offered: Fall, Spring

Workshop provides intensive instruction in the theory and craft of writing fiction designed for students who are already writing at a professional or near-professional level, and for those who have proven themselves ready to take advanced study with careful, individualized direction of the instructor.
Note: May be repeated once for credit.

ENGL 230Y. Master Class in Writing Poetry. 4 Units
Prerequisite(s): ENGL 130B or ENGL 230B or instructor permission.
Term Typically Offered: Fall, Spring

Designed to provide intensive practice in the techniques and problems of writing poetry. It is aimed at students interested in creative writing, those who have already done significant work and who have proven themselves ready to take advanced study with careful individualized direction of the instructor.

ENGL 240. British Literature. 3 Units
Term Typically Offered: Fall, Spring

Seminars in British literature.

ENGL 240A. Chaucer. 4 Units
Term Typically Offered: Fall, Spring

Investigation of the body of Chaucer's poetry, seen against the backdrop of the late 14th century.

ENGL 240B. The World and the Flesh: Victorian Fiction. 4 Units
Term Typically Offered: Fall, Spring

Explores the Divided-Self of Victorian fiction, a consciousness split between word and flesh, duty and love, society and the self, or most generally between one's public role and one's private needs. Such polar themes affect several fictional genres such as the Pastoral, Gothic, Bildunsroman, Historical Novel and Naturalism. The word and flesh dialectic also informs the narrative structure of Victorian fiction.

ENGL 240E. 18th-Century Novelists. 4 Units
Term Typically Offered: Fall, Spring

Focuses on individual novelists, pairs of novelists, or thematic groupings. Might include works of fiction by authors such as Behn, Defoe, Richardson, Fielding, Steme, Goldsmith, Bumey.

ENGL 240F. Dickens+Thackeray. 4 Units
Term Typically Offered: Fall, Spring

Dickens and Thackeray dominated the popular mind as the novelists of the age; no other novelists are more representative of their age and yet can claim to have risen above it. Concentrates on just a few of their novels. Students study the writers and their novels in the context of English society in the 19th century.

ENGL 240G. Yeats, Kavanagh and Heaney: Ireland's Modern Irish Poets. 3 Units
Term Typically Offered: Fall, Spring

Yeats, often considered a modernist and a poet in the British tradition, saw himself primarily as an Irish poet working within distinctly Irish literary traditions. Focuses on Yeats' conception of a national, ethnic poetry and the effect that mission had on Ireland's other two major 20th century poets--Kavanagh and Heaney. Students analyze Yeats' most influential work; Kavanagh and Heaney are studied in terms of their debt to Yeats and their individual expressions of national consciousness.

ENGL 240H. DH Lawrence. 3 Units
Term Typically Offered: Fall, Spring

Lawrence was immensely original. Like Tolstoy and Dostoevsky, Lawrence is a prophetic visionary intensely concerned to articulate and embody an all-embracing, profoundly existential, vision of life. Examines Lawrence's work closely after a brief exploration of modernism and Lawrence's relation to it and an examination of how conditions in post-Victorian England and events in Europe in the early 20th century contributed to the making of Lawrence's world view and his role as a controversial outsider.

ENGL 240I. Jane Austen. 4 Units
Term Typically Offered: Fall, Spring

Focuses on Jane Austen, perhaps England's greatest novelist. Students read almost all of her work and trace the development of her art from her teenage years until her death in 1817, noting how each new book is a distinct departure from previous ones.

ENGL 240J. James Joyce. 3 Units
Term Typically Offered: Fall, Spring

James Joyce is a monument among twentieth century writers. His masterful Ulysses and other intricate works have kept generations of critics in business. Examines his major fictions, studying them in relationship to the life out of which they grew.

ENGL 240K. English Renaissance Drama. 3 Units
Term Typically Offered: Fall, Spring

Sense of exploration, discovery, experimentation, creativity, and moral complexity of the Renaissance era in England (roughly 1550 to 1660) is reflected in the variety and number of plays written by Shakespeare's predecessors, contemporaries, and successors. Following introductory material on the development of the drama in England, students analyze Elizabethan and Jacobean playwrights, exclusive of Shakespeare. Emphasis is on the forms and themes of the plays, with application of 'New Historicism' and attention to Renaissance backgrounds

ENGL 240L. Conrad and Greene. 3 Units
Term Typically Offered: Fall, Spring

When English critic F.R. Leavis declared that the great English novelists were Austen, Eliot, James, and Conrad, he emphasized these writers' intensely moral pre-occupation. No modern novelist has been more influenced by Conrad than Graham Greene, whose work has the same romantic subject matter and concerns with ethical judgments. Both writers are concerned with the question: to act or not to act, for either choice has inescapable ethical consequences.

ENGL 240M. The Gothic Novel. 4 Units
Term Typically Offered: Fall, Spring

Examines the origins and development of the Gothic Novel in England. Attention is paid to recurring structures and themes such as architecture, the use of a narrative frame, reader identification figure, the divided self, the relationships between sex, violence, and death, the wasteland motif, and existential concerns. Special attention is given to the role of the reader and his or her response to the novels.

ENGL 240N. Arthurian Literature. 4 Units
Term Typically Offered: Fall, Spring

Study of Arthurian literature in the Middle Ages from its origins to Thomas Malory, as well as some coverage of reception history

ENGL 240O. Satire In Age Swift+Pope. 3 Units
Term Typically Offered: Fall, Spring

ENGL 240R. Charles Dickens. 4 Units
Term Typically Offered: Fall, Spring

Examines the major narrative, plot, and genre structures, image patterns, and thematic preoccupations in Dickens' novels, like the interrelationships between homes, prisons, factories and schools. The influences of Dickens' life, periodical publishing of illustrated magazines, and of Victorian society also receives attention. Introduces students to relevant insights of several 'post-structural' critical schools, including those of deconstruction, the carnivalesque, liminality, and Lacanian psychology.

ENGL 240S. Modern Irish Fiction. 3 Units
Term Typically Offered: Fall, Spring

Examines in detail one aspect of the Irish Renaissance (approximately 1880-1940)--Ireland's contribution to fiction in the twentieth century. Also examines not only individual writers and works but the development of the genres of the novel and short story and movements such as realism, naturalism, modernism, and post-modernism. Writers might include Joyce, O'Brien, O'Flaherty, O'Faolain, and others.

ENGL 240T. Renaissance Literature. 4 Units
Term Typically Offered: Fall, Spring

Students will explore the poetry, prose, and drama produced in England during the 16th and 17th centuries. Contemporary criticism and theory will provide a context for reading these primary works.

ENGL 240U. Nineteenth-Century Texts and Sex. 4 Units
Term Typically Offered: Fall, Spring

Examines a range of sexual identities through which nineteenth-century Britons imagined their lives. Such identities were influenced by ideas about race, class, status, ethnicity, gender, and age that often differed markedly from our own. Moves beyond the literary to look at texts from a variety of genres (medical, literary, erotic, and autobiographical) and cover both well-treated and more obscure texts.

ENGL 240X. Contemporary British Fiction--1980 to Present. 4 Units
Term Typically Offered: Fall, Spring

Students read and study British works of fiction-novels and short stories-written after 1979. Although the choice of authors and works might vary from one semester to another, focuses on works of fiction deemed significant and valuable by literary scholars and critics.

ENGL 240Z. Special Topics in British Literature. 4 Units
Term Typically Offered: Fall, Spring

Open to the investigation of either a limited period (e.g. World War I poets or Victorian Children's literature), a single author (e.g. Hanif Kureishi or Aphra Behn), an authorial dialogue (e.g. Chaucer & Spenser, Stoppard and Shakespeare, Sidney & Wroth), or a unique literary feature, theme, or structure (e.g. Pastoral & Georgic or Empire & Race).

ENGL 245A. Shakespearean Romance. 3 Units
Term Typically Offered: Fall, Spring

ENGL 250A. Wharton and Cather. 3 Units
Term Typically Offered: Fall, Spring

Focuses on the writing of Edith Wharton and Willa Cather, two of our most accomplished early American writers. Shows how these writers, poised on the threshold of the twentieth century-and pulled simultaneously forward and back-explored similar themes, and how, as two of the few revered women writers of this time, they focused particularly on shifting gender roles; Wharton with her eye on interior space and Cather with her eye on exterior space.

ENGL 250D. Hawthorne and Melville. 3 Units
Term Typically Offered: Fall, Spring

Readings and discussion of major works by Hawthorne and Melville.

ENGL 250F. Whitman and Dickinson. 4 Units
Term Typically Offered: Fall, Spring

This seminar on two of America's greatest poets, Whitman and Dickinson, focuses primarily on the poetry, but also on letters and prose pieces. Students read and discuss criticism on each writer, and study cultural and historical contexts of these two contemporaneous but antithetical poets. Study includes traditional and feminist studies of Dickinson and Cultural Studies of Whitman. Forms a dialogue between these two remarkable and remarkably different poets; students join in that dialogue.

ENGL 250H. American Realism. 4 Units
Term Typically Offered: Fall, Spring

Between the end of the Civil War and the outbreak of World War I, there was an unprecedented and transforming social and cultural change in American life. During this time, literature also radically contributed to ideas about the nature of fiction, the reality it represented, and its effects on readers. Students will study the historical development of realism in literature and the current status of theories of literary realism.

ENGL 250J. Henry James. 4 Units
Term Typically Offered: Fall, Spring

James' innovations in narrative technique paved the way for the emergence of the modern novel; his development of a theory of fiction helped establish an American literary tradition and bring the American novel into the mainstream of British and European literature. Students read James' major works of fiction and criticism with an eye to understanding and enjoying them and to assessing the nature of the writer's contribution to the novel as a serious art form.

ENGL 250K. Contemporary American Fiction. 3 Units
Term Typically Offered: Fall, Spring

Studying contemporary fiction involves challenges and pleasures. Unlike studies in most areas of literature where the best writers have been clearly established, studying contemporary fiction means risking one's own critical skills to identify what new texts and writers are significant without the help of earlier generations of scholars and critics.

ENGL 250L. American Women Writers. 3 Units
Term Typically Offered: Fall, Spring

Focuses on the contributions of women writers to American literature. Begins with a brief overview of feminist critical approaches and of the history of women writing in America. Close critical analysis of texts focuses on four or five writers from various centuries, regions, and ethnic groups. Covers such writers as Toni Morrison, Sarah Jewett, Marilynne Robinson, Eudora Welty, Lee Smith, Leslie Silko, and others. Students work collaboratively to present background information and critical approaches to the writers.

ENGL 250P. Wharton and Chopin. 3 Units
Term Typically Offered: Fall, Spring

Growth of a feminine perspective in literary theory has resulted in a radical reconsideration of the American literary canon, producing new readings of texts, patterns in literature and culture, and connections between texts. Wharton and Chopin are two writers taking a place of importance in the development of the realistic novel in America and in the creation of a distinctive tradition of women's literature. Focuses on the heuristic possibilities of a distinctly different literature by women, the role of gender, and the contributions of Wharton and Chopin to the novel.

ENGL 250Q. Irish-American Fiction. 3 Units
Term Typically Offered: Fall, Spring

Examines the theme of immigration and that of assimilation in a particular ethnic group: Irish-Americans. Through an examination of the literature, we find an ethnicity that is uneasily part of the American fabric and one defined to a large degree by the culture they either abandoned or were forced to abandon. Representative writers include Eugene O'Neill, Alice McDermott, William Kenney, Mary Gordon, John Gregory Dunne.

ENGL 250R. Wm. Faulkner: Major Fict. 3 Units
Term Typically Offered: Fall, Spring

ENGL 250T. Postmodern Fiction. 3 Units
Term Typically Offered: Fall, Spring

Study of important recent fiction that has come to be referred to as 'postmodernist' because its non-traditional themes, subject matter, and narrative technique embody or reflect the postmodern era.

ENGL 250U. Roaring Twenties Literature. 3 Units
Term Typically Offered: Fall, Spring

Focus on literature dramatizing the roaring, irrepressible twenties, a decade of unprecedented change following the 'Great War to end all wars.' Highlighting Fitzgerald, whose life mirrors the times, also includes other 'expatriate' writers such as Wharton, Dos Passos, Stein, Eliot, and Hemingway, who looked at America from an overseas perspective and reflected on the changes in communication, sensibility, and values resulting from the new freedom of this revolutionary, liminal period.

ENGL 250V. Cultural Studies. 4 Units
Term Typically Offered: Fall, Spring

Surveys the range of contemporary cultural phenomena and the relevant modes of analysis currently employed in Cultural Studies with a focus on literary production and cultures.

ENGL 250W. The Poetry of T.S. Eliot. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the poetry of T.S. Eliot, one of the dominating figures of English and American literature for a substantial part of the twentieth century: In 1948 he received the Nobel Prize for Literature, and by 1950 his authority had reached a level that seemed comparable in English writing to that of figures like Johnson and Coleridge. Offers students the opportunity to analyze and discuss Eliot's poems. We will trace his poetic/aesthetic development from his early poems ('Prufrock' et al.)

ENGL 250Z. Special Topics in American Literature. 4 Units
Term Typically Offered: Fall, Spring

The investigation of either a limited period (e.g. The Transcendental period or the Novel of the 1960s), a single author (e.g., Philip Roth or Toni Morrison), or a unique literary feature or structure (e.g. Literary Naturalism or the Experimental Novel).

ENGL 260A. Myth Criticism. 3 Units
Term Typically Offered: Fall, Spring

Introduces and traces through several literary works and genres the fundamental topics in myth criticism; significance of ritual, fairy tales, and archetypal romance forms; contributions of Freudian, Lacanian, and Jungian psychology and their relation to Joseph Campbell's notion of the monomyth; relevance of Victor Turner's 'liminal' theories of rites of passage in anthropology; importance of recent discoveries with the bicameral and 'triune' brain in biological sciences; kinds of myth (hero, heroine, American, love, wasteland, artist, time); and relationships between myth criticism and post-structuralism.

ENGL 260D. Literature and Biography. 3 Units
Term Typically Offered: Fall, Spring

ENGL 265A. Postcolonial Literature. 3 Units
Term Typically Offered: Fall, Spring

Focuses on contemporary literary works from postcolonial locations such as Africa, Australia, South Asia, Canada and the Caribbean. Explores the relationships between literary texts and the historical and social contexts from which they arise; especially European colonialism.

ENGL 275. Seminar in Literary History. 3 Units
Term Typically Offered: Fall, Spring

Literary history designed to introduce the graduate student to bibliographical materials necessary to the successful pursuit of advanced study in English. It will deal with the major historical periods of English and American literature, and looks briefly at the major European traditions.

ENGL 280A. Aesthetics of Minority Literature. 4 Units
Term Typically Offered: Fall, Spring

This course examines African American literature and film. Focusing on the emergence of a distinctly black modernist and post-modernist literary discourse, we will also study how neo-slave narratives illuminate the difficulties of comparative freedom and the legacies of Caribbean and American slaveries and oppression.

ENGL 280B. The Ethics of Black Verbal Aesthetics. 4 Units
Term Typically Offered: Fall, Spring

This course introduces the advanced study of black verbal aesthetics in the novels of Ralph Ellison (the dozens), Toni Morrison (folktales), Colson Whitehead (call and response), the poetry of Harryette Mullen (diasporic blues/jazz improvisation), and others. Exploring black verbal aesthetics and sonic technologies, we will investigate how the these authors above (as well as James Baldwin and Amiri Baraka) treat verbal expressive arts as sites of hidden knowledge, subversion, and everyday politics that centralizes black life and culture.

ENGL 280J. Jewish American Literature. 3 Units
Term Typically Offered: Fall, Spring

Students will examine a rich tradition of Jewish American literature in the context of a complex American multicultural narrative. Topics include the immigrant experience, assimilation, alienation, responses to the Holocaust and other forms of anti-Semitism, the place of Israel in the Jewish American imagination, and a contemporary rediscovery or reconstruction of Jewishness and Judaism. Students will interrogate what constitutes Jewish American identity and defines its literature in a culture that is itself conflicted about its secular/religious ethos and the degree to which subjectivity is determined by 'consent and/or descent.

ENGL 297A. Prose Style In Literature. 3 Units
Term Typically Offered: Fall, Spring

ENGL 299. Special Problems: English Tutorial. 1 - 3 Units
Prerequisite(s): ENGL 200.
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Highly recommended for, and open only to, students who are able to carry on individual tutorial study. Admission by approval of faculty member who is to act as tutor and of graduate advisor or of Department Chair.
Credit/No Credit

ENGL 410A. Writing Center Theory and Practice: Internships. 4 Units
Term Typically Offered: Fall, Spring

Provides interns with an opportunity to apply tutoring principles while working at tutors in the writing center.
Note: ENGL 410A is paired course with ENGL 195A, which meets at the same time in the same room. The graduate class, 410A, has a significantly increased reading, writing, and research component. May be repeated for up to 8 units of credit.

Credit/No Credit

ENGL 410B. Internship-ESL Teaching. 3 Units
Term Typically Offered: Fall, Spring

Provides interns with an opportunity to experience the day-to-day life of an ESL class. Tutors will observe an ESL class, will assist the teacher in conducting various aspects of the class, and will be responsible for planning and teaching at least one class session. Seminar meetings will provide and overview of ESL teaching methodology.
Credit/No Credit

ENGL 410C. Internships. 4 Units
Term Typically Offered: Fall, Spring

Work experience in an area related to the English major. Can be repeated if topic of internship differs. Credit/No credit
Credit/No Credit

ENGL 410E. Internship in Teaching Writing. 4 Units
Term Typically Offered: Fall, Spring

Students considering a teaching career intern in a composition class at an area community college. They work with a mentor teacher on site and meet periodically at CSUS. The internship provides students with an opportunity to experience the day-to-day life of a composition class and hands-on opportunity to design assignments, respond to student writing, conduct class discussions, etc. Students read composition and rhetorical theory with an eye toward day-to-day application in the classroom.
Credit/No Credit

ENGL 410F. Internship in Teaching Literature. 4 Units
Prerequisite(s): Recommended ENGL 225 or ENGL 22A or instructor Permission
Corequisite(s): Instructor Permission
Term Typically Offered: Fall, Spring

Gives graduate students the opportunity to gain teaching experience in a literature classroom. Students will work closely with an instructor-of-record in a large (60+) lecture literature course and in small group discussion sessions under the supervision of the mentor professor. Interns will also meet regularly with their peers to discuss pedagogical issues and readings as they pertain to their experiences in the classroom.
Credit/No Credit

ENGL 410L. Internship in Teaching Adult Reading. 3 Units
Term Typically Offered: Fall, Spring

Tutoring in adult reading. Tutors work with students who need reading instruction at Sacramento State, local community colleges or adult education agencies in the Sacramento area.
Credit/No Credit

ENGL 410W. Writing Programs Internship. 3 Units
Term Typically Offered: Fall, Spring

Students will work with a Composition faculty member to complete a project for the campus writing program, the University Reading and Writing Center, the Graduation Writing Assessment Requirement, or the Writing Across the Curriculum Program. Students should contact the appropriate program coordinator to register for the course and design a project.
Credit/No Credit

ENGL 500. Culminating Experience. 2 Units
Term Typically Offered: Fall, Spring

Completion of a thesis, project, comprehensive examination. In addition, students will be asked to edit and reflect on their portfolio projects from coursework.

ENGL 598T. Culminating Experience - TESOL. 3 Units
Term Typically Offered: Fall, Spring

Completion of a thesis, project, or TESOL comprehensive exam. Requires advancement to candidacy and permission of graduate coordinator. Project and thesis options require GPA of 3.7.

BA in English

Units required for Major: 44, 27-30 of which must be upper division
Total units required for BA: 120

Program Description

The English department of California State University, Sacramento, is a community of teachers, scholars, writers, and support staff whose primary mission is to promote learning in composition, creative writing, English education, linguistics, literature, and the teaching of English as a second language. The department seeks to help students acquire knowledge, develop skills, and realize their own intellectual and creative goals.

At the undergraduate and graduate levels, the English Department presents a broad and balanced curriculum designed to develop the reading and writing skills, the interpretative abilities, and the cultural awareness of its students by maintaining and enhancing a tradition of strong teaching, solid scholarship, and vigorous support of creative literary activity.

Minimum Grade Requirement

English majors must achieve a grade of 'C-' or better in all courses included in the major, unless otherwise specified.

Note: With the noted exception of ENGL 5, English courses may NOT be challenged.

Program Requirements

Code	Title	Units
Required Lower Division Courses (9 Units)		
Select three of the following: [1]		9
ENGL 40A	Introduction to British Literature I [2]	
ENGL 40B	Introduction to British Literature II [2]	
ENGL 50A	Introduction to American Literature I [2]	
ENGL 50B	Introduction to American Literature II [2]	
ENGL 65	Introduction to World Literatures in English [2]	
Required Upper Division Courses (10 Units)		
ENGL 120A	Advanced Composition	4
ENGL 198X	Senior Portfolio	2
ENGL 198T	Senior Seminar In English [3]	4
Additional Requirements		
Historical Breadth requirement		
Select one of the following (unless ENGL 40A or ENGL 50A has been taken as one of the required Lower Division courses). [4]		
ENGL 40A	Introduction to British Literature I [2]	
ENGL 50A	Introduction to American Literature I [2]	
ENGL 110B	History of the English Language	
ENGL 140B	Medieval Literature	
ENGL 140C	The English Renaissance	
ENGL 140E	Restoration & Eighteenth-Century Drama	
ENGL 140F	British Literature, 1660-1780	
ENGL 140G	The Eighteenth-Century British Novel	
ENGL 140R	Renaissance Drama	
ENGL 141A	The Essential Shakespeare	
ENGL 141B	Shakespop: Shakespeare and Popular Culture [2]	
ENGL 145A	Chaucer - Canterbury Tales	
ENGL 145B	Shakespeare - Early Plays, 1592-1600	
ENGL 145C	Shakespeare - Later Plays, 1600-1612	
ENGL 145I	John Milton	
ENGL 150A	Early American Literature	
Electives (25 Units)		
Select 25 units; these 25 units must include a course that meets the Historical Breadth requirement unless that requirement has been met by taking ENGL 40A or ENGL 50A as one of the required Lower Division courses [5]		25
Total Units		44

1. Students must take at least one British Literature survey (ENGL 40A, ENGL 40B), and at least one American Literature survey (ENGL 50A, ENGL 50B). We recommend that lower division requirements be completed no later than the first semester in which the student begins taking required upper division courses.
2. Course also satisfies General Education (GE)/Graduation Requirement.
3. Students are required to complete a course in their senior year, selecting from courses specially designated as Senior Seminars. The seminar has a reduced class size and requires a term paper, student presentations and submission of the student's work.
4. Students must take **one** of the classes listed to satisfy this requirement (unless they have already taken ENGL 40A or ENGL 50A as one of the required Lower Division courses)
5. In addition to the required courses, student take an additional 25 units of electives, including their writing intensive course, which must be taken in the English department. Of those 25 units, at least 18 units must be upper division.
   Students can satisfy the historical breadth requirement by taking ENGL 40A or ENGL 50A as one of their required Lower Division courses; students who have not done so must take at least one course that meets the Historical Breadth requirement as part of their 25 units of elective courses in the major.

Notes:

- Students must complete 18 units of English, of which at least 15 must be in upper division (100-level) courses, in residence at California State University, Sacramento.
- The following courses may not be included toward the major:

Code	Title	Units
ENGL 1	Basic Writing Skills	3
ENGL 3	Introduction to Academic Discourse	4
ENGL 3M	Introduction to Academic Discourse for Multilingual Students	4
ENGL 5	Accelerated Academic Literacies	3
ENGL 1C	Critical Thinking and Writing	3
ENGL 1X	Academic Literacies Workshop	1
ENGL 5M	Accelerated Academic Literacies - Multilingual	3
ENGL 10	Academic Literacies I	3
ENGL 10M	Academic Literacies I - Multilingual	3
ENGL 11	Academic Literacies II	3
ENGL 11M	Academic Literacies II-Multilingual	3
ENGL 20	College Composition II	3
ENGL 20M	College Composition II for Multilingual Students	3
ENGL 60	Reading for Speed and Efficiency	2
ENGL 60M	Reading for Speed and Efficiency for Multilingual Students	2
ENGL 85	Grammar for Multilingual Writers	2
ENGL 86	College Language Skills for Multilingual Students	4
ENGL 87	Basic Writing Skills for Multilingual Students	3
ENGL 109M	Writing for GWAR Placement-Multilingual	3
ENGL 109W	Writing for GWAR Placement	3
ENGL 109X	Writing-Intensive Workshop	1

- Up to 6 units of ENGL 199 may be included in the 27 upper division units. Three units in an upper division literature class from another major may also be included.
- English majors must fulfill the GE Writing Intensive 'supervenient requirement' with courses **in the major, only**.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3

B2 - Life Forms	3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)	1
B4 - Math Concepts	3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.	3
Area C: Arts and Humanities (6 Units)	
C1 - Arts	3
C2 - Humanities [2]	0
C1/C2 - Area C Course [2]	0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (12 Units)	
Area D Course	3
Area D Course	3
Area D Course	3
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	43

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II [3]		0
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [4]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
Note: For a list of ENGL Writing Intensive courses, see the General Education page (http://catalog.csus.edu/colleges/academic-affairs/general-education/).
3. Required in Major; also satisfies Graduation Requirement.
4. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Certificate in Teaching Composition

Units required for the certificate: 16[1]

1. Employment as a Teaching Associate in the English Department at Sacramento State may be substituted for ENGL 410E, reducing total number of coursework units to 12.

Program Description

The English department of California State University, Sacramento, is a community of teachers, scholars, writers, and support staff whose primary mission is to promote learning in composition, creative writing, English education, linguistics, literature, and the teaching of English as a second language. The department seeks to help students acquire knowledge, develop skills, and realize their own intellectual and creative goals.

At the undergraduate and graduate levels, the English Department presents a broad and balanced curriculum designed to develop the reading and writing skills, the interpretative abilities, and the cultural awareness of its students by maintaining and enhancing a tradition of strong teaching, solid scholarship, and vigorous support of creative literary activity.

The 'Teaching Composition Certificate' is designed for individuals who seek formal recognition for completing an organized, integrated, specialized program of study: teaching composition. This certificate is recommended for those students preparing to teach writing at the community college level or for high school teachers seeking to update their knowledge of composition theory and practice, Upon successful completion of the designated course of study, a certificate will be awarded.

Note: Candidates must have an overall GPA of 3.0 in courses submitted for the certificate. Applicants for the Certificate Program in Teaching Composition must have completed all requirements for eligibility for any English graduate program.
This certificate is not recognized by the California Commission on Teacher Credentialing; it does not meet the eligibility requirements to teach in K-12 California public schools.

Program Requirements

Code	Title	Units
Required Courses (16 Units)		
ENGL 220A	Teaching College Composition	4
ENGL 410A	Writing Center Theory and Practice: Internships	4
ENGL 410E	Internship in Teaching Writing (Teaching Associateship in English at Sacramento State) [1]	4
ENGL 220C	Topics in Composition Studies	4
Total Units		16

[1] Employment as a Teaching Associate in the English Department at Sacramento State may be substituted for ENGL 410E, reducing total number of coursework units to 12.

Certificate in TESOL

Units required for Certificate: 15 (Option A) or 18 (Option B)

Program Description

This Advanced Study in Teaching English to Speakers of Other Languages (TESOL) certificate program has two options:

- **Option A:** This option is intended for undergraduates who want preparation for teaching ESL students (in the U.S. or abroad).
- **Option B:** This option is intended primarily for graduate (see English graduate page) students who want to pursue an MA in English or another field, but also want to be prepared to teach ESL writing at the college level.

Eligibility Requirements for options A and B

Students must either be in a degree program at Sacramento State or must apply for graduate admission to the University. Once admitted to Sacramento State, prospective TESOL Certificate students must apply to the TESOL Coordinator for admission to the program.

Undergraduates must be within 45 units of completing a bachelor's degree (in any field) with a 3.0 overall GPA.

Graduate students must have a completed bachelor's degree (in any field) with a 3.0 overall GPA.

All applicants must complete the University's Writing Placement for Juniors (WPJ) requirement.

International students must have a TOEFL score of 600 or higher (or a score of 250 or higher on the computerized TOEFL) and a score of 5 on the Test of Written English.

Minimum Grade Requirement

Courses must be completed with grades of 'B' or better

Program Requirements

Option A (15 units)

Code	Title	Units
Required Courses (9 Units)		
ENGL 110A	Linguistics and the English Language	3
ENGL 110P	Second Language Learning and Teaching	3
ENGL 110Q	English Grammar for ESL Teachers	3
Pedagogy Electives (6 Units)		
Select two of the following:		6
ENGL 110C	Technology in Second Language Teaching	
ENGL 125E	Academic Reading and Writing for Second Language Students	
ENGL 125F	Teaching Oral Skills	
Total Units		15

Option B (18 units)

Code	Title	Units
Required Courses (15 Units)		
ENGL 110A	Linguistics and the English Language	3
ENGL 110P	Second Language Learning and Teaching	3
ENGL 110Q	English Grammar for ESL Teachers	3
ENGL 215B	ESL Writing/Composition [1]	3
ENGL 410B	Internship-ESL Teaching	3
Elective (3 Units)		
Select one of the following:		3
ENGL 200E	Curriculum and Assessment Design for Language Classrooms	
ENGL 210C	Technology in Second Language Teaching	
ENGL 215A	Reading/Vocabulary Acquisition [1]	
ENGL 215C	Pedagogical Grammar for TESOL [1,2]	
ENGL 220A	Teaching College Composition	
ENGL 220C	Topics in Composition Studies	
Total Units		18

[1] ENGL 110A and ENGL 110P must be completed before any ENGL 215 course

[2] ENGL 110Q must be completed before attempting ENGL 215C.

Notes: The Certificate in TESOL is not a teaching credential. It is recognized abroad as advanced training in language teaching. In conjunction with a BA or MA degree or a state teaching credential, it may also be helpful in obtaining employment as an ESL teacher in the United States.

MA in Composition and Rhetorical Analysis

The MA in Composition, Rhetoric, and Professional Writing is recommended for students preparing to teach at the high school or community college level or advance as writers in professional, workplace contexts. The MA in Composition, Rhetoric, and Professional Writing offers preparation for careers in fields such as education, journalism, publishing, law, technical writing, advertising, arts administration, or civil service; or to pursue study at the doctoral level. Because many graduate students work during the day, most graduate courses are scheduled for late afternoon and evening hours. The course of study leads to an M.A. thesis project in rhetoric, composition, and professional writing in which the student undertakes original research or creates a professional writing portfolio under the supervision of a two-person faculty committee.

Admission Requirements

- a minimum GPA of 3.0 in the last 60 units of all university level coursework OR a 3.0 GPA in courses in Communication Studies, Education, English, Philosophy, Political Science or related major on the transcript from your degree-granting institution (effective beginning with Spring 2015 admissions)
- Statement of purpose and writing sample
- Students from foreign universities must take the TOEFL test, which is administered in different formats; students need take only one format of the exam. Required scores for each format are as follows:

- paper based TOEFL: 600, with a score of 5 on the Test of Written English (TWE)
- computer based TOEFL: 250, with a score of 5 on the Test of Written English (TWE)
- internet based TOEFL (IBT): 100, with a minimum of 25 on the writing section

Program Requirements

Code	Title	Units
Required Courses (16 Units)		
ENGL 220A	Teaching College Composition [1]	4
ENGL 220D	Teaching and Composition Research	4
ENGL 220P	Professional Writing	4
ENGL 220R	Topics in Rhetorical Theory and Practice	4
Select from one of the following (4 Units)		
ENGL 410A	Writing Center Theory and Practice: Internships	4
or ENGL 410C	Internships	
or ENGL 410E	Internship in Teaching Writing	
or ENGL 410W	Writing Programs Internship	
Electives: 8 units of electives from the following 200-level graduate seminars		**8**
Students who enroll in a three-unit elective course must also enroll in ENGL 222: Understanding Multidisciplinary in Writing Studies		
ENGL 220C	Topics in Composition Studies	
ENGL 215B	ESL Writing/Composition [2]	
ENGL 210G	Second Language Acquisition [2]	
ENGL 200A	Methods and Materials of Literary Research	
ENGL 201D	Contemporary Theory	
Select a course from the ENGL 230, ENGL 240, ENGL 250, ENGL 260, ENGL 275, or ENGL 280 series		
Culminating Requirement (2 Units)		
ENGL 500	Culminating Experience [3]	2
Total Units		30

Note: Up to three units of upper-division (100-level) coursework in the English department may be counted toward electives.

[1] In order to satisfy the Graduation Writing Requirement (GWAR) and advance to candidacy, students in this program must receive a 'B' or higher in ENGL 220A. For more information on this requirement and possible equivalencies, please visit: http://www.csus.edu/gradstudies/currentstudents/gwar.html.

[2] Students who enroll in a three-unit elective must also enroll in ENGL 222: Understanding Multidisciplinary Writing Studies.

[3] The Culminating requirement for the Composition Concentration shall be completed via Plan A requirements by writing a thesis.

MA in English (Creative Writing)

Total units required for the MA: 30

Program Description

The M.A. In English with a Concentration in Creative Writing is recommended for students preparing to teach at the community college level, for those students whose objective is to pursue an M.F.A. or Ph.D. in creative writing, and writers seeking to advance their understanding of creative writing practice and theory.

In general, the M.A. degree in each of its concentrations seeks to enhance students' skills in: critical reading; analysis of language, ideas, and the formal attributes of texts; creative engagement with the writing traditions of its two disciplinary fields; and independent research.

The two concentrations of the English M.A. offer preparation for students who aspire: to teach writing or literary study in high-school or community-college settings; to teach English to adult learners and to students abroad; to pursue career opportunities in fields such as journalism, publishing, law, and creative writing, advertising, arts administration, or civil service; or to pursue study at the doctoral level.

Because many graduate students work during the day, most graduate courses are scheduled for late afternoon and evening hours.

Admission Requirements

Admission as a classified graduate student in English requires:

For: All Applicants to the MA in English

- a baccalaureate degree;
- a minimum GPA of 3.0 in the last 60 units of all university level coursework or a 3.0 GPA in courses in the English major on the transcript from the degree granting institution;
- a minimum of 27 units of upper division courses in English;
- (for foreign students from non-English speaking countries) a TOEFL score of 600 or higher (or a score of 250 or higher on the Computerized TOEFL) and a score of 5 on the Test of Written English; and
- a minimum of fifteen units of upper-division coursework in literature
- at least one course must primarily address British literature and at least one course must primarily address American literature;

Application Materials Required by the English Department for All Applicants

In addition to the materials that must be sent directly to the Office of Graduate Studies as outlined in 'Application Materials Required by the University' (below), students must also send to the English M.A. Graduate Coordinator in the English Department additional material by the application deadline.

Before submitting the materials, please check with the English Department website (http//www.csus.edu/engl/ (http://www.csus.edu/engl/)) for updates and specific deadlines.

Please have the following material delivered to the English Department directly and addressed to the English M.A. Coordinator:

- Personal statement of no more than 300-500 words. The personal statement should discuss the applicant's interest in the program concentration (literature or creative writing) that he or she has chosen and the experiences (academic and non-academic) that have shaped this interest and prepared the applicant for graduate work in this field.
- Three confidentially submitted recommendation forms (found on the department website) for all students (both California State University, Sacramento and other institutions). Students graduating from universities other than California State University, Sacramento,

must also provide formal letters from their three recommenders in addition to the completed recommendation forms.
- Writing sample for Creative Writing applicants only (for prose or fiction, the writing sample should be no more than 15 pages; for poetry, the writing sample should consist of approximately 5 or 6 poems).
- Students graduating from any institution other than California State University, Sacramento, must send directly to the English Department an official copy of all transcripts from each institution of higher education that they have attended.
- Students who have attended California State University, Sacramento, must send directly to the English Department official transcripts from institutions of higher education they have attended other than California State University, Sacramento.
- A completed copy of the Department of English Supplemental Application found on the English Department website.

The Graduate Coordinator will screen all applicants according to these requirements and a ranking system devised by the department. Applicants who have deficiencies in these admission requirements which can be removed by specified additional preparation will be ranked accordingly but may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response from the Graduate Coordinator to the student's admission application.

Application Materials Required by the University

In addition to any materials sent directly to the department, all prospective graduate students including California State University, Sacramento, graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for admission;
- two sets of official transcripts from all colleges and universities attended, *other than California State University, Sacramento;* and
- TOEFL scores, if applicable.

Note: For materials that must be sent directly to the English Graduate Program Coordinator in the English Department, see 'Application Materials Required by the English Department' as listed above.

Applicants are accepted as long as room for new students exists or until the deadline passes. Applicants should file as early as possible.

For more admissions information and application deadlines, please visit http://csus.edu/gradstudies/.

Minimum Units and Grade Requirements for the Degree

Units required for the MA: 30
Minimum Cumulative GPA: 3.0. No units with a grade lower and 'C' may apply towards the degree

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of English 200-level courses in the Master's Degree program with a minimum cumulative grade point average of 3.0; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with an English faculty advisor. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Courses (16 Units)		
ENGL 200A	Methods and Materials of Literary Research [1]	4
ENGL 220A	Teaching College Composition	4
ENGL 275	Seminar in Literary History	4
ENGL 201D	Contemporary Theory	4
Concentration in Creative Writing (12 Units)		
Select one course from the ENGL 230 series (Creative Writing)		4
Selection one additional course from the ENGL 230 or 130 series (Creative Writing)		4
ENGL 230X	Master Class in Writing Fiction	4
or ENGL 230Y	Master Class in Writing Poetry	
Culminating Requirement (2 Units)		
ENGL 500	Culminating Experience [2]	2
Total Units		30

[1] In order to satisfy the Graduation Writing Assessment Requirement (GWAR) and advance to candidacy, Creative Writing and Literature students must receive a 'B' or higher in ENGL 200A. For more information on this requirement and possible equivalencies, please visit: http://www.csus.edu/gradstudies/currentstudents/gwar.html

[2] The culminating requirement for Creative Writing Concentration shall be the Comprehensive Examination (Plan C), for which student will prepare by taking ENGL 500.

MA in English (Literature)

Total units required for MA: 30

Program Description

The MA in English with a Concentration in Literature is recommended for students preparing to teach at the community college level, for those whose objective is to pursue a Ph.D. in literature, or for high school teachers seeking to advance their understanding of literature and literary theory.

In general, the M.A. degree in each of its concentrations seeks to enhance students' skills in: critical reading; analysis of language, ideas, and the formal attributes of texts; creative engagement with the writing traditions of its two disciplinary fields; and independent research.

The two concentrations of the English M.A. offer preparation for students who aspire: to teach writing or literary study in high-school or community-college settings; to teach English to adult learners and to students abroad; to pursue career opportunities in fields such as journalism, publishing, law, creative writing, advertising, arts administration, or civil service; or to pursue study at the doctoral level.

Because many graduate students work during the day, most graduate courses are scheduled for late afternoon and evening hours.

Admission Requirements

Admission as a classified graduate student in English requires:

For: All Applicants to the MA in English

- a baccalaureate degree;
- a minimum GPA of 3.0 in the last 60 units of all university level coursework or a 3.0 GPA in courses in the English major on the transcript from the degree granting institution;
- a minimum of 27 units of upper division courses in English;
- (for foreign students from non-English speaking countries) a TOEFL score of 600 or higher (or a score of 250 or higher on the Computerized TOEFL) and a score of 5 on the Test of Written English; and
- a minimum of fifteen units of upper-division coursework in literature.
- at least one course on their transcript must primarily address British literature and at least one course must primarily address American literature.

Application Materials Required by the English Department for All Applicants

In addition to the materials that must be sent directly to the Office of Graduate Studies as outlined in 'Application Materials Required by the University' (below), students must also send to the English M.A. Graduate Coordinator in the English Department additional material by the application deadline.

Before submitting the materials, please check with the English Department website (http//www.csus.edu/engl/ (http://www.csus.edu/engl/)) for updates and specific deadlines.

Please have the following material delivered to the English Department directly and addressed to the English M.A. Coordinator:

- Personal statement of no more than 300-500 words. The personal statement should discuss the applicant's interest in the program concentration (literature, composition, or creative writing) that he or she has chosen and the experiences (academic and non-academic) that have shaped this interest and prepared the applicant for graduate work in this field.
- Three confidentially submitted recommendation forms (found on the department website) for all students (both California State University, Sacramento and other institutions). Students graduating from universities other than California State University, Sacramento, must also provide formal letters from their three recommenders in addition to the completed recommendation forms.
- Writing sample for Creative Writing applicants only (for prose or fiction, the writing sample should be no more than 15 pages; for poetry, the writing sample should consist of approximately 5 or 6 poems).
- Students graduating from any institution other than California State University, Sacramento, must send directly to the English Department an official copy of all transcripts from each institution of higher education that they have attended.
- Students who have attended California State University, Sacramento, must send directly to the English Department official transcripts from institutions of higher education they have attended other than California State University, Sacramento.
- A completed copy of the Department of English Supplemental Application found on the English Department website.

The Graduate Coordinator will screen all applicants according to these requirements and a ranking system devised by the department. Applicants who have deficiencies in these admission requirements which can be removed by specified additional preparation will be ranked accordingly but may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response from the Graduate Coordinator to the student's admission application.

Application Materials Required by the University

In addition to any materials sent directly to the department, all prospective graduate students including California State University, Sacramento, graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for admission;
- two sets of official transcripts from all colleges and universities attended, *other than California State University, Sacramento;* and
- TOEFL scores, if applicable.

Note: For materials that must be sent directly to the English Graduate Program Coordinator in the English Department, see 'Application Materials Required by the English Department' as listed above.

Applicants are accepted as long as room for new students exists or until the deadline passes. Applicants should file as early as possible.

For more admissions information and application deadlines, please visit http://csus.edu/gradstudies/.

Minimum Units and Grade Requirements for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0. No units with a grade lower and 'C' may apply towards the degree

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of English 200-level courses in the Master's Degree program with a minimum cumulative grade point average of 3.0; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available in the Office of Graduate Studies. The student fills out the form after planning a degree program in consultation with an English faculty advisor. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Courses (16 Units)		
ENGL 200A	Methods and Materials of Literary Research [1]	4
ENGL 201D	Contemporary Theory	4

ENGL 275	Seminar in Literary History	4
ENGL 220A	Teaching College Composition	4
Concentration in Literature (12 Units)		
Select one course from the ENGL 240 series (British Literature)		4
Select one of the following:		4
ENGL 250 series course (American Literature)		
ENGL 280 series course (Minority Literature)		
Select one elective ENGL course from the following series: ENGL 100, 140, 141, 145, 150, 155, 160, 165, 180, 185, 170, 240, 250, 260, 265, 280, or one of the following: 190Q, 299, 410F		4
Culminating Requirement (2 Units) [2]		
ENGL 500	Culminating Experience [2]	2
Total Units		30

[1] In order to satisfy the Graduation Writing Assessment Requirement (GWAR) and advance to candidacy, Creative Writing and Literature students must receive a 'B' or higher in ENGL 200A. For more information on this requirement and possible equivalencies, please visit: http://www.csus.edu/gradstudies/currentstudents/gwar.html

[2] The culminating requirement for the Literature Concentration shall normally be the Comprehensive Examination, for which the student will prepare by taking ENGL 500. Students who have earned a 3.7 GPA or better in 21 units in their graduate program may elect to complete Plan A requirements by writing a thesis, provided they have two faculty willing to read and direct the thesis.

MA in TESOL

Total units required for MA: 33

Program Description

The MA in Teaching English to Speakers of Other Languages (TESOL) requires extensive study of linguistics and pedagogy, as well as actual teaching and/or tutoring experience with second-language students. The culminating experience of the MA TESOL Concentration is the comprehensive examination.

The MA TESOL provides professional preparation and training in the theory and practice of teaching English to non-native speakers. The program is designed for graduate students who expect to teach in community college or secondary or adult education settings in the U.S. or in adult or university level courses overseas. The program is also preparation for the Ph.D. in Applied Linguistics.

Admission Requirements

To ensure that students entering the program have the potential to succeed, both in the program and in their teaching careers, the MA TESOL has the following admission requirements:

- a baccalaureate degree with a minimum 3.0 GPA, including a 3.0 GPA in the final 60 units;
- international students must achieve minimum scores on the TOEFL as follows: 600 on the traditional TOEFL, with a score of 5 on the Test of Written English (TWE) **OR** 250 or higher on the computerized TOEFL, with a score of 5 on the Test of Written English **OR** 100 or higher on the TOEFL, with a minimum of 24 on the writing section;
- completion of prerequisite courses (or their equivalents[1]) with a grade of 'B' or better:

Code	Title	Units
ENGL 110A	Linguistics and the English Language	3
ENGL 110Q	English Grammar for ESL Teachers	3

- Students should complete all prerequisites before enrolling in a graduate-level (200 and above) courses. A student who has not completed all prerequisites may be dropped by the instructor from a graduate-level course; and
- Preference will be given to those students who have completed 2 semesters of college-level foreign language (6 units).
- The University requires that all graduate students admitted in Fall 1980 or later pass the Writing Placement for Graduate Students (WPG).

[1] Students should see the TESOL Coordinator for a transcript evaluation if they have completed equivalent coursework. Under no circumstances will any coursework more than seven years old be accepted for transfer.

Admission Procedures

Applications are accepted on a first-come, first-served basis. Enrollment is limited, so applicants should file as early as possible in the semester prior to intended admittance. Students not meeting all requirements may be conditionally accepted as long as space is available in the program. Applicants must complete a university application by the posted application deadline date for the term applying. *For more admissions information and application deadlines, please visit* http://www.csus.edu/gradstudies/. Before applying, students should make an appointment to set up an advising file with the TESOL Advisor.

Note: Because of the budget constraints, undergraduates and unclassified graduate students can be admitted to TESOL graduate courses on a space available basis only.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 33

Minimum Cumulative GPA: 3.0

Notes:

- Up to 3 units of ENGL 299 may apply to the degree.
- Optional Support Field: With permission of the Graduate Coordinator, up to 6 of the 30 units required for the MA in English may be taken in fields closely related to English.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. The procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- a plan of study that has been filled out with the help of the TESOL Advisor;
- completed at least 12 units of 200-level courses in the Master's Degree program with a 'B' or better in each course; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

- Advancement to Candidacy forms are available in the Office of Graduate Studies, River Front Center 206, (916) 278-6470. The completed form is then returned to the Office of Graduate Studies for approval.

The MA in TESOL includes the Certificate of Advanced Study in TESOL. **Coursework for the Certificate must be completed with grades of 'B' or better.** Credential candidates may apply for Supplemental Authorization in ESL through the Commission on Teacher Credentialing. Candidates for the Adult Education Credential in ESL may apply through their local County Office of Education. An extensive job file for employment in the U.S. and overseas is maintained in the TESOL Program Office, Calaveras Hall 138.

Program Requirements

Code	Title	Units
Required Courses (27 Units)		
ENGL 200D	Materials and Methods of TESOL Research	3
ENGL 410B	Internship-ESL Teaching	3
ENGL 200E	Curriculum and Assessment Design for Language Classrooms	3
ENGL 210B	Sociolinguistics and TESOL	3
ENGL 210G	Second Language Acquisition	3
ENGL 215A	Reading/Vocabulary Acquisition	3
ENGL 215B	ESL Writing/Composition	3
ENGL 215C	Pedagogical Grammar for TESOL	3
ENGL 215D	Pedagogy of Spoken English	3
Electives (3 Units)		
Select one of the following: [1]		3
ENGL 210C	Technology in Second Language Teaching	
ENGL 220A	Teaching College Composition	
ENGL 220C	Topics in Composition Studies	
ENGL 410A	Writing Center Theory and Practice: Internships	
ENGL 410E	Internship in Teaching Writing	
or ENGL 410I	Internship in Teaching Adult Reading	
Culminating Requirement (3 Units) [2]		
ENGL 598T	Culminating Experience - TESOL	3
Total Units		33

[1] An upper division or graduate course not on this list may be substituted with the prior permission of the graduate coordinator.

[2] Students must complete a thesis, project, or TESOL comprehensive examination. The thesis and project options require permission of the graduate coordinator. Only students with an earned GPA of 3.7 or higher will be given permission to do a thesis or project.

Certificate - TESOL

Code	Title	Units
Option B: Required Courses (15 Units)		
ENGL 110A	Linguistics and the English Language	3
ENGL 110P	Second Language Learning and Teaching	3
ENGL 110Q	English Grammar for ESL Teachers	3
ENGL 215B	ESL Writing/Composition [1]	3
ENGL 410B	Internship-ESL Teaching	3
Elective (3 Units)		
Select one of the following:		3
ENGL 200E	Curriculum and Assessment Design for Language Classrooms	
ENGL 210C	Technology in Second Language Teaching	
ENGL 215A	Reading/Vocabulary Acquisition [1]	
ENGL 215C	Pedagogical Grammar for TESOL [1,2]	
ENGL 220A	Teaching College Composition	
ENGL 220C	Topics in Composition Studies	
Total Units		18

[1] ENGL 110A and ENGL 110P must be completed before any ENGL 215 course

[2] ENGL 110Q must be completed before attempting ENGL 215C.

Minor in Creative Writing

Units required for Minor: 18

Program Description

The English department of California State University, Sacramento, is a community of teachers, scholars, writers, and support staff whose primary mission is to promote learning in composition, creative writing, English education, linguistics, literature, and the teaching of English as a second language. The department seeks to help students acquire knowledge, develop skills, and realize their own intellectual and creative goals.

Minimum Grade Requirement

Grades of 'C-' or better are required in all courses in the minor.

Note: Twelve of the units for the minor, including at least 8 upper division units, must be taken in residence at Sacramento State.

Program Requirements

Code	Title	Units
Required Courses (20 Units)		
ENGL 30A	Introduction to Creative Writing	4
ENGL 30B	Introduction to Writing Fiction	4
or ENGL 30C	Introduction to Poetry Writing	
Select 12 additional units of Creative Writing courses (ENGL 130 series)		12
Total Units		20

The following courses may not be counted toward the minor:

Code	Title	Units
ENGL 1	Basic Writing Skills	3
ENGL 5	Accelerated Academic Literacies	3
ENGL 1C	Critical Thinking and Writing	3
ENGL 5M	Accelerated Academic Literacies - Multilingual	3
ENGL 20	College Composition II	3
ENGL 109M	Writing for GWAR Placement-Multilingual	3
ENGL 109W	Writing for GWAR Placement	3
ENGL 120A	Advanced Composition	3

Minor in English

Units required for Minor: 21

Program Description

The English department of California State University, Sacramento, is a community of teachers, scholars, writers, and support staff whose primary mission is to promote learning in composition, creative writing, English education, linguistics, literature, and the teaching of English as a second language. The department seeks to help students acquire knowledge, develop skills, and realize their own intellectual and creative goals.

Minimum Grade Requirement

Grades of 'C-' or better are required in all courses in the minor.

Note: Nine of the units for the minor, including at least 6 upper division units, must be taken in residence at Sacramento State.

Program Requirements

Code	Title	Units
Select two of the following		6
ENGL 40A	Introduction to British Literature I	
ENGL 40B	Introduction to British Literature II	
ENGL 50A	Introduction to American Literature I	
ENGL 50B	Introduction to American Literature II	
ENGL 65	Introduction to World Literatures in English	
Select 15 additional units of upper-division English electives		**15**
Total Units		21

The following may **not** be counted toward the minor:

Code	Title	Units
ENGL 1	Basic Writing Skills	3
ENGL 5	Accelerated Academic Literacies	3
ENGL 1C	Critical Thinking and Writing	3
ENGL 5M	Accelerated Academic Literacies - Multilingual	3
ENGL 20	College Composition II	3
ENGL 109M	Writing for GWAR Placement-Multilingual	3
ENGL 109W	Writing for GWAR Placement	3

Minor in TESOL

Units required for minor: 18

Program Description

The English department of California State University, Sacramento, is a community of teachers, scholars, writers, and support staff whose primary mission is to promote learning in composition, creative writing, English education, linguistics, literature, and the teaching of English as a second language. The department seeks to help students acquire knowledge, develop skills, and realize their own intellectual and creative goals.

Notes:

- All coursework for the Teaching English to Speakers of Other Languages (TESOL) Minor must be taken at Sacramento State.
- Students choosing to major in English may **NOT** minor in TESOL.

Program Requirements

Code	Title	Units
ENGL 110A	Linguistics and the English Language	3
ENGL 110P	Second Language Learning and Teaching	3
ENGL 110Q	English Grammar for ESL Teachers	3
ENGL 125E	Academic Reading and Writing for Second Language Students	3
ENGL 125F	Teaching Oral Skills	3
Elective course to be chosen from the English 110 series		3
Total Units		18

Note: Courses being applied to other degree programs (e.g., to Spanish majors) cannot also be applied to the TESOL Minor. See the TESOL Coordinator for prior approval of substitute courses.

Subject Matter Program (English)

Units required for Major: 47
Total units required for BA: 120

Program Description

The English Single Subject Matter Program is a version of the major designed for students planning to teach English at the secondary school level.

General Requirements

Both new and continuing students in this major must establish a file with the English Education Advisor and to see the advisor at least once per semester to keep their file current.

Students must achieve a grade of 'B-' or better in the following courses:

Code	Title	Units
ENGL 16	Structure Of English	3
or ENGL 110J	Traditional Grammar and Standard Usage	
or ENGL 110Q	English Grammar for ESL Teachers	
ENGL 110A	Linguistics and the English Language	3
ENGL 110P	Second Language Learning and Teaching	3
ENGL 125A	Literature and Film for Adolescents	4
ENGL 125B	Writing and the Young Writer	3,4

Minimum Grade Requirement

Students must achieve a grade of 'C' or better in all other courses for the program.

Program Requirements

Code	Title	Units
Required Courses (43 Units)		
ENGL 40B	Introduction to British Literature II [1]	3
ENGL 50A	Introduction to American Literature I [1]	3
ENGL 50B	Introduction to American Literature II [1]	3
ENGL 65	Introduction to World Literatures in English [1]	3

ENGL 110A	Linguistics and the English Language [2]	3
Select one of the following:		3
ENGL 16	Structure Of English [2]	
ENGL 110J	Traditional Grammar and Standard Usage [2]	
ENGL 110Q	English Grammar for ESL Teachers [2]	
ENGL 110P	Second Language Learning and Teaching [2]	3
ENGL 120A	Advanced Composition	4
ENGL 125B	Writing and the Young Writer [2]	4
ENGL 125A	Literature and Film for Adolescents [2]	4
ENGL 145B	Shakespeare - Early Plays, 1592-1600	4
or ENGL 145C	Shakespeare - Later Plays, 1600-1612	
ENGL 198T	Senior Seminar In English	4
ENGL 198X	Senior Portfolio	2
Elective Units (4 Units)		
English Elective: students must use these unit to meet their Writing Intensive requirement by choosing a course in the English Department. [3]		4
Total Units		47

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Minimum grade of 'B-' required

[3] Students must meet the Writing Intensive requirement with a course in the major only.

Notes:

- Students declared in the English (Pre-Credential) major must make an advising appointment with the English Education Coordinator as soon as possible.

General Education Requirements[1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6 Units)		
C1 - Arts		3
C2 - Humanities [2]		0
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II [3]		0
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [4]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement. **Note:** For a list of ENGL Writing Intensive courses, see the General Education page (http://catalog.csus.edu/colleges/academic-affairs/general-education/).

[3] Required in Major; also satisfies Graduation Requirement.

[4] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Hellenic Studies

College of Arts and Letters

Program Description

The Hellenic Studies minor emphasizes coursework and independent study in the areas of Greek language, Greek History, Greek politics, and Greek arts and literature. The Hellenic Studies curriculum includes lower and upper division classes offered by the departments of Foreign Languages, History, Humanities and Religious Studies, Philosophy,

Government, and Art. The minor is associated with the Tsakopoulos Hellenic Collection (http://www.library.csus.edu/tsakopoulos/) in the Sacramento State Library.

Degree Programs

Minor in Hellenic Studies (p. 204)

Contact Information

Katerina Lagos, Program Director
Tahoe Hall 3089
(916) 278-7103

Minor in Hellenic Studies

Total units required in the minor: 23 with at least 12 in upper division

Program Description

The Hellenic Studies minor emphasizes coursework and independent study in the areas of Greek language, Greek History, Greek politics, and Greek arts and literature. The Hellenic Studies curriculum includes lower and upper division classes offered by the departments of Foreign Languages, History, Humanities and Religious Studies, Philosophy, Government, and Art. The minor is associated with the Tsakopoulos Hellenic Collection www.library.csus.edu/tsakopoulos (http://www.library.csus.edu/tsakopoulos/) in the Sacramento State Library.

Program Requirements

Code	Title	Units
Specific Course Requirements (17 Units)		
GREK 6A	Elementary Modern Greek	4
GREK 6B	Elementary Modern Greek	4
HIST 109	History of Modern Greece	3
or HIST 103	Mediterranean Europe: From the Renaissance to the European Union	
HIST 111	Ancient Greece	3
HRS 113	The Culture of Classical Greece	3
Electives (6 Units)		
Select two of the following:		6
ART 1A	Art, Religions, and Power before 1400	
ART 103	Art of the Ancient Mediterranean	
GOVT 110		
HIST 143B	The Modern Middle East	
HRS 119	Classical Mythology	
HRS 120	Reason and Revelation: The Origins of Western Culture ✎	
PHIL 26	History of Philosophy	
PHIL 112	History Of Ethics ✎	
PHIL 192D/ HRS 205	Space and Time	
THEA 2	History of the Theatre: Ancient to Renaissance	
Total Units		23

Note: Students are required to seek advising from a Hellenic Studies advisor.

History

College of Arts and Letters

Program Description

History, in the broad sense, is the study of all human experience. It examines the people, institutions, ideas, and events from the past to the present. The study of history contributes to cultural literacy and develops critical thinking and other useful skills while helping students understand the present and plan for the future. Historical study provides a solid, fundamental preparation for careers in business, industry, government, and education. It also serves as excellent preparation for law school, foreign service, international work, urban affairs, historical consulting, and library science.

History is an academic discipline offering both breadth and focus. At Sacramento State, the History major includes four lower division survey courses and three upper division seminars. In addition, students choose seven upper division electives from a wide variety available. The flexibility of the major allows students to focus on topical areas such as: women's history, the history of particular geographic areas, cultural history, ethnic group history, economic history, military history, and history from the ancient world to that of the U.S. in the 20th Century. Teaching credential candidates should complete the History/Social Science Precredential Program.

The Sacramento State History Department has an extensive master's program, offering degrees through the Standard Program, and the Public History Option. The History Department also offers a joint Ph.D. in Public History in cooperation with the University of California, Santa Barbara. Applications for admission to the joint Ph.D. are available at the UC Santa Barbara Department of History.

Degree Programs

BA in History (p. 219)

Minor in History (p. 225)

Minor in Latin American Studies (p. 225)

Subject Matter Program in History/Social Science (Pre-Credential Preparation) (p. 226)

MA in History (Comprehensive Option) (p. 220)

MA in History (Specialized Option) (p. 222)

MA in Public History (p. 223)

Ph.D. in Public History (p. 226)

Special Features

- The History Department administers two interdisciplinary minors: Middle East and Islamic Studies Minor and the Hellenic Studies Minor.
- The Capitol Campus History Resources Institute, Hellenic Studies Center, North Central Information Center, and the Center for Science, History, Policy, and Ethics are associated with the Department.
- The California State Library, California State Archives, the Sacramento Discovery Museum, and the California State Railroad Museum provide a rich supply of materials for historical research. Sacramento State history students may use materials from these and other off-campus sources in their work.

- Internships are available in a variety of public agencies and in some private enterprises. They are open to majors and other students with some history or related background. In the past, students have interned in a variety of California state agencies and in the Sacramento Discovery Museum. The Department office has a descriptive brochure on internships that students are encouraged to consult.
- The undergraduate major in History at Sacramento State is designed to provide cultural enrichment and a sense of alternatives and perspectives, especially relevant in a society confronted with widespread institutional change. In addition to subject matter, the Department gives particular emphasis to various methodologies and ways of thinking about the past.
- A minor in History can provide valuable support to majors in many other programs, such as Business Administration, Journalism, and Criminal Justice.
- History courses also make excellent electives, contributing interest and variety to an academic program. Neither lower division nor upper division history courses are designed only for history majors or minors. The Department welcomes and encourages all students.

Career Possibilities

Pre-Law/Lawyer · Journalist · Pre-Theology/Clergy · Foreign Service · Teacher · Archivist · Researcher/Research Analyst · Museum Curator · State Park Historian · Librarian · Business-Person · Writer · Consultant · Historian · Banking · Market Research · Travel · Historical Societies

Contact Information

Jeffrey Wilson, Department Chair
Stacie Tillman, Administrative Support Coordinator
LoriAnn Rodriguez, Administrative Support Assistant and Graduate Secretary
Tahoe Hall 3080
(916) 278-6206
Department of History Website (http://www.csus.edu/hist/)

Faculty

ATAMAZ, SERPIL

AUSTIN, PAULA

BURKE, CHLOE S.

CASTANEDA, CHRISTOPHER J.

COHEN, AARON J.

DYM, JEFFREY A.

ETTINGER, PATRICK W.

GASTON, JESSIE

GERMAN, JAMES D.

GREGORY, CANDACE

KLUCHIN, REBECCA

LAGOS, KATERINA

LAZARIDIS, NIKOLAOS

LINDSAY, ANNE

LINDSAY, BRENDAN

LUPO, M. SCOTT

NUMARK, MITCHELL

OCEGUEDA, MARK

PALERMO, JOSEPH A.

REED, LORETTA

SCHNEIDER, KHAL

SIEGEL, MONA

SIMPSON, LEE M.A.

VANN, MICHAEL

WILSON, JEFFREY K.

HIST 4. Survey of Early Western Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Survey of the earliest civilizations with emphasis on the contributions of the Hellenic, Roman and the Medieval eras to the West. Continues to the close of the Middle Ages. Stress is placed on social, economic, as well as political factors.

HIST 5. Survey of Modern Western Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Survey of the development of western civilization from the Renaissance to the present day. Stress is placed on social and economic, as well as political, factors.
Note: Not open for credit to students receiving prior credit in HIST 105.

HIST 6. Asian Civilizations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to major developments in the histories and cultures of China, Japan, and India -- origins of civilizations, great empires, religions, growth and spread of cultures, alien invasions, Western impact, nationalist movements, modernization, and characteristics of contemporary society.

HIST 7. History of African Civilizations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introductory survey of the history of Africa from earliest times to the present. Major topics include: origins of humanity and society, civilizations of the Nile Valley, the peopling of Sub-Saharan Africa, African societies to 1500, pre-colonial Saharan and Sub-Saharan Africa, Colonial Africa and the emergence of modern states in Africa.

HIST 8. History of Islamic Civilizations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introductory survey of the history of Islamic societies of Asia, Africa, and the Middle East from the 6th century to the present. Focus will be on both continuities and the discontinuities that distinguish them from one another. Topics will include: religious, political, social, and cultural development in Islamic civilization during the premodern period, and reform, western imperialism, nationalism, and religious politics in the modern period.

HIST 10. History's Mysteries: Thinking Critically about the Past. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

From the builders of the Pyramids to the cause of the Holocaust: unlock mysteries of the past; apply historical thinking skills to answer compelling historical questions; sharpen reasoning and argumentative skills; evaluate historical evidence; learn to recognize scientific standards of historical investigation; hone college level writing skills. Topics vary based on instructor's expertise.

HIST 15H. Major Problems in U.S. History. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), United States History
Term Typically Offered: Fall, Spring

A survey of topics in American history from the colonial period to the end of the twentieth century. Subjects may include reform movements, immigration, racial problems, religion, politics and the role of women.
Note: Fulfills graduation requirement for U.S. History and Race and Ethnicity.

HIST 17A. United States History, 1607-1877. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D, United States History
Term Typically Offered: Fall, Spring

Basic historical survey of the rise of American civilization from colonial beginnings through the rebuilding of the union during Reconstruction.
Note: Fulfills state graduation requirement for U.S. History.

HIST 17B. United States History, 1877-Present. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Basic historical survey of the growth of urban-industrial American civilization and its rise to world power, 1877-present.
Note: Fulfills state graduation requirement for U.S. History.

HIST 18. Health, Medicine, and Science in America, 1600-Present. 3 Units
Term Typically Offered: Fall, Spring

This course will examine science, medicine, and public health in America from the colonial era through the present.

HIST 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature of higher education, and the functions and resources of the University. Designed to help students develop academic success strategies and to improve learning skills. Students will interact with fellow students to build a community of academic and personal support. Introduces history as an academic discipline by requiring students to interpret historical information about issues such as academic freedom and the development of racism.

HIST 50. World Civilizations, Beginnings-1600. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Study of some major civilizations of the world from the beginnings of civilization to 1600. Covers the classical and medieval traditions of the West as well as at least two major non-western cultures.

HIST 50H. World History I: to 1500. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Intensive comparative history of the world's major civilizations that highlights human community's increased level of connection. Explores the diverse global culture, political, and economic patterns from the origins of complex societies to the birth of modern capitalism.

HIST 51. World History from 1500 to the Present.. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A survey of the increased inter-connections of the world's civilizations from the conquest of the Americas to the dawn of the 21st century. Explores the history of the human community's political development, culture diversity, and economic globalization.

HIST 51H. World History from 1500 to the Present. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

An intensive survey of the increased inter-connections of the world's civilizations from the conquest of the Americas to the dawn of the 21st century. Explores the history of the human community's political development, cultural diversity, and economic globalization.

HIST 100. Introduction to Historical Skills. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the skills of secondary and primary source research, critical analysis of documentary sources, historical reasoning and the preparation of written reports. Attention to research procedures, record-keeping, citation, and bibliography.
Note: Open to History majors who have completed at least 6 units of required lower division coursework. Recommended for second semester of sophomore year.

HIST 101A. Language and written culture in Ancient Greece. 3 Units
Term Typically Offered: Fall, Spring

This is part of the two-semester hybrid course on Ancient Greek language and written culture. The language component of the course is taught online through interactive language-teaching website, while the weekly meetings are mainly discussions on Ancient Greek texts in translation. The focus in this first part is on basic grammatical rules, the reading and construction of simple sentences, and the study of Greek written culture from its beginnings to the Classical Period.
Cross Listed: WLL 120A; only one may be counted for credit.

HIST 101B. Language and written culture in Ancient Greece. 3 Units
Prerequisite(s): HIST 101A
Term Typically Offered: Spring only

This is the second part of a two-semester hybrid course on Ancient Greek language and written culture. The language component of the course is taught online through an interactive language-teaching website, while the weekly meetings are mainly discussions on Ancient Greek texts in translation. The focus in this second part is on advanced grammar, the reading and understanding of long passages, and the study of Greek written culture from the Classical Period to the Roman era.
Cross Listed: WLL 120B; only one may be counted for credit.

HIST 102A. Culture and Language in Modern Greece, 1821-1909. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

This is the first part of a two-semester hybrid course on modern Greek language, history, and culture. This course is an introduction to the main cultural forces in history and literature that shape modern Greek society. It explores the historical development of modern Greek culture from the period of the Greek War of Independence to the present. Students will also obtain a basic level of modern Greek grammatical rules, the reading and writing of simple sentences, and basic everyday conversation skills.

HIST 102B. Culture and Language in Modern Greece, 1909-Present. 3 Units
Prerequisite(s): Student must complete HIST 102A with a minimum 'C-' grade or better.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

This is the second part of a two-semester hybrid course on modern Greek language, history, and culture. This course is an introduction to the main cultural forces in history and literature that shape modern Greek society. It explores the historical development of modern Greek culture from the period of the Greek War of Independence to the present. Students will also obtain a basic level of modern Greek grammatical rules, the reading and writing of simple sentences, and basic everyday conversation skills.

HIST 103. Mediterranean Europe: From the Renaissance to the European Union. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Traces the development of Southern European countries from the Renaissance to European Union membership. These two 'rebirths' for Europe had a unique impact on Portugal, Spain, Italy and Greece. Focuses on the political, economics, and cultural aspects of these Mediterranean countries.

HIST 104A. Ancient Science. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

An examination of the theories, experiments, and calculations of Greek and Roman scientists as well as the work of major contributors to astronomy, natural philosophy, medicine, and technology in the ancient period.

HIST 105. Great Ages and Issues in Modern European History. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Advanced analysis of topics in modern European history from the Renaissance to the present. Emphasis is placed upon primary sources and contemporary as well as historical interpretations of the sources.
Note: Not open for credit to students receiving prior credit in HIST 5.

HIST 106. Everyday Life and Society in Antiquity. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

An overview of social beliefs and practices in a variety of ancient cultures, including Ancient Greece, Rome, and the Near East chronologically ranging from Late Prehistory to the rise of Christianity. All the examined themes are approached comparatively and on the basis of ancient historical evidence, consisting of both texts and archaeological materials.

HIST 107. History of the Physical Sciences. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Study of the development of the major physical laws presently used in describing our physical world. Some considerations of the influences of these developments on other areas of knowledge and on society in general.
Cross Listed: PHSC 107; only one may be counted for credit.

HIST 108. Ancient Egypt: History & Culture. 3 Units
Term Typically Offered: Fall, Spring

Overview of the history of ancient Egypt from prehistory to the Roman conquest, combined with a study of cultural development in areas of ancient Egyptian religion, art, and literature.

HIST 109. History of Modern Greece. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduces the fundamental events and figures that shaped modern Greek history and politics. Topics will include: the Greek War of Independence, the Megali Idea, the Asia Minor Catastrophe, and Greece's entry into the European Union. No prior knowledge of Greece or Greek language assumed.

HIST 110. The Ancient Near East: A Cultural History. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Growth and development of Ancient Near Eastern civilization with emphasis on Mesopotamia and Egypt as the foundation of ancient Mediterranean civilization. Religion, literature, art and social institutions will all be stressed as integral elements in an historical process.

HIST 111. Ancient Greece. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Political, social, and cultural development of Greece from the Mycenaeans to the post-Alexandrian world with emphasis on Fifth Century Athens and on a reading of Thucydides.

HIST 112. Ancient Rome. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Rome from its foundation to Justinian with emphasis on its political institutions, their strengths and weaknesses, social structure, the ancient economy, paganism and Christianity, and the end of ancient civilization.

HIST 113. Early Medieval Europe. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

The transformation of Mediterranean civilization from Late Antiquity to its three heirs: Western Europe, Byzantium and Islamic Civilization. Topics include: Late Antique Christianity, monasticism, economic and trade structures, Islamic conquests, Carolingian civilization, medieval archaeology and technology, and the origins of manorialism and feudalism.

HIST 114. Europe in the High Middle Ages. 3 Units
Term Typically Offered: Fall, Spring

Flourishing of European civilization from the Gregorian reform (11th century) until the end of the Middle Ages. Emphasizes the development of Latin Christianity, the formation of national communities in France and England, and the multi-faceted crisis of the 14th and 15th centuries.

HIST 115. The Renaissance and Reformation in Europe. 3 Units
Term Typically Offered: Fall, Spring

Survey of the development of Italian City States and their relation to Northern Europe; an examination of the relationship among commerce, capitalism and secular culture; a survey of Reformation and Counter-Reformation.

HIST 116. Europe, 1648-1815, The Age of Revolution. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Political and social survey of Europe with emphasis on (a) the scientific revolution and the Enlightenment, (b) absolute monarchs and enlightened despots, (c) the American and French Revolutions, (d) Napoleon I, and (e) art, society and popular culture.

HIST 117. Europe, 1815-1914. 3 Units
Term Typically Offered: Fall, Spring

Consideration of historical trends in 19th Century Europe. Emphasis on Germany and France. Attention is devoted to liberalism, conservatism and nationalism; the industrial revolution, national unification, nationalism, imperialism and the rise of socialism.

HIST 118A. World War I: Causes, Conduct, Consequences. 3 Units
Term Typically Offered: Fall, Spring

Political and social development of Europe from the beginning of the 20th Century to the accession of Hitler to power in 1933 with emphasis on relations among the Great Powers.

HIST 118B. World War II: Causes, Conduct, Consequences. 3 Units
Term Typically Offered: Fall, Spring

Critical examination of political, military, social, and cultural transformations in the era of the Second World War. Particular emphasis will be placed on diplomatic relations between the Great Powers, military conduct during the war, the experience of fascism, the causes and ramifications of the Holocaust, and the war's cultural and political legacy in Europe.

HIST 119. Europe Since 1945. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of major developments in Europe since the end of World War II. Topics include: the basic intellectual structures of the 20th century; the origins of the Cold War; the rise of the EEC; decolonization; the political and social upheaval of the l960's; détente; and the new preoccupation with nationalism and ethnic identity.

HIST 120A. History of Medicine, Ancient and Medieval. 3 Units
Term Typically Offered: Fall only

History of ancient-medieval medicine, the role of medicine in society, and attitudes toward illness and the body. Also covers alternative remedies such as magic and folk medicine. Primary focus on Greco-Roman medicine but also Sumerian, Egyptian, Christian and Islamic traditions.

HIST 121. Democracy and Human Rights in the Era of the French Revolution and Napoleon. 3 Units
Term Typically Offered: Fall, Spring

Explores the crucial social, cultural, intellectual, and political legacies of the Revolutionary and Napoleonic years (1789-1815) in France and across the globe. In particular, examines ideas and policies regarding religious toleration, democratic participation, slavery, gender, and nationalism.

HIST 122A. History of Women in Western Civilization, Prehistory-Middle Ages. ✎ **3 Units**
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Emphasis on the lives and experiences of women as they relate to the fundamental characteristics of Western culture. Topics include women and religion, production and economic institutions, reproduction and family structures, power and politics, women's self-definition.

HIST 122B. History of Women in Western Civilization, Renaissance-Present. ✎ **3 Units**
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Emphasis on the lives and experiences of women as they relate to fundamental characteristics of Western culture. Topics include women and industrialization, the modern state, the development of feminism, feminism and socialism, revolutionary and reactionary movements.

HIST 123. The Crusades. 3 Units
Term Typically Offered: Fall only

The Crusading movement from the eleventh through the thirteenth centuries. Explores the eight 'official' Crusades, and explores the concept of 'crusading' as Christian Holy War. Extensively covers the intersection of Byzantine, Islamic, Catholic, and Jewish cultures in the Middle Ages, and incorporates religious, social, military, and political, history.

HIST 124A. Warfare: Alexander to Napoleon. 3 Units
Term Typically Offered: Fall, Spring

Conduct of war from 336 B.C. to 1815. Social and political consequences; development of weaponry, strategy and tactics; Great Captains.

HIST 124B. European Warfare from the French Revolution to the Present. 3 Units
Term Typically Offered: Fall, Spring

Study of the inception, conduct and impact of European warfare from the French Revolution to the present. Students will be required to complete one or more projects designed to increase their understanding of modern warfare and its implications.

HIST 125. Modern Germany, 1806-Present. 3 Units
Term Typically Offered: Fall, Spring

History of Germany from the fall of the Holy Roman Empire to the present. Topics will include the rise of German nationalism, the formation of the German nation-state, the Nazi era and the Holocaust, and postwar Germany's development.

HIST 126. Evolution of Christianity to the Reformation. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Christianity from Jesus to Martin Luther. Emphasis on the evolution of Christian thought and institutions and the relationship of the Church to popular culture and secular powers.
Cross Listed: HRS 126; only one may be counted for credit.

HIST 127. Evolution of Christianity Since the Reformation. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

European Christianity from the Reformation to the present. Emphasis on the evolution of Christian thought, the co-existence of the Catholic and Protestant traditions, and the relationship of religious and secular values in European society.
Cross Listed: HRS 127; only one may be counted for credit.

HIST 128A. Medieval England To 1485. 3 Units
Term Typically Offered: Fall only

Examines the developments of English history from the Celtic Bronze Age to the fifteenth century. Issues of race and ethnicity, gender, social classes, political ideology, religious toleration, economic developments, and artistic achievements will be examined in particular detail.

HIST 128B. Tudor and Stuart England, 1485-1714. 3 Units
Term Typically Offered: Fall, Spring

History of England from the consolidation of royal power under Henry VII to the Hanoverian succession. Emphasis on the Tudor Renaissance and Reformation, the growth of England's international status under Elizabethan, Stuart rule, the Civil Wars, the dictatorship of Oliver Cromwell and the Restoration.

HIST 128C. British History, 1714-Present. 3 Units
Term Typically Offered: Fall, Spring

History of the British Isles from Hanoverians to the Present. Emphasis upon the rise of Parliament, industrialization, reform, rise of labor, the two World Wars, the Welfare State and contemporary Britain.

HIST 129A. Medieval Russia. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Emergence of modern Russia from the principalities of medieval Russia. Emphasis on Eastern European, Byzantine, and Eurasian contributions to Russian history.

HIST 129B. Imperial Russia. 3 Units
Term Typically Offered: Fall, Spring

Emergence and collapse of imperial Russia as a continental world power from 1600 to 1917. Emphasis on the role of monarchy, a changing society and economy, and the growth of the educated public in the development of a distinctive imperial Russian culture and its final destruction in revolution.

HIST 129C. Twentieth Century Russia. 3 Units
Term Typically Offered: Fall, Spring

Revolutionary origins of the Soviet Union, its rise as a global superpower, and its sudden dissolution. Emphasis on the major political, economic, social, and cultural trends that defined Soviet civilization, as well as the Soviet legacy for contemporary Russia and the world.

HIST 130. The Fall Of Communism. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Causes and consequences of the dramatic transformations in the political, economic, and cultural life of the Soviet Union, eastern Europe, and China after 1970. Topics include 'real-existing' socialism, Gorbachev and the revolutions of 1989, the emergence of China, impact on the non-socialist world, and implications for the future.

HIST 131. History of Sexuality in Comparative Perspective. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Survey of the comparative history of sexuality in the pre-modern and modern world (including the United States and Europe). Topics include the intersections of gender, sexuality, race, and social status across societies and time periods; religion and sexual norms; sex, sexuality and the rise of the nation-state; sex and imperialism; and sexuality and the law.

HIST 132. Topics In World History. 3 Units
Prerequisite(s): HIST 50.
Term Typically Offered: Fall, Spring

Designed for students who want to acquire multiple subject teaching credentials. Examines world history from a topical perspective, focusing on large themes and trends. Builds upon the detailed history taught in the HIST 50.

HIST 133. Twentieth-Century World History. 3 Units
Prerequisite(s): HIST 51 or HIST 51H
Term Typically Offered: Spring only

A survey of the major international themes and historical processes that shaped the twentieth century. Designed for History majors and present or prospective teachers of history.

HIST 134. The Rise and Fall of European Colonial Empires. 3 Units
Term Typically Offered: Fall, Spring

This course covers the origins of European colonialism in the Iberian expansion, the development of English and Dutch empires, the role of spices, slaves, sugar, and opium in the making of the modern global economy, the ' New Imperialism' of the 19th Century, the anti-colonialist and nationalist movements, and the final collapse of the empires after World War II.

HIST 135A. History Of Mexico To 1910. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Emphasizes Meso-American culture, the creation and flourishing of Spanish colonial culture, the independence movements, and the trials and tribulations of nationhood in the 19th century.

HIST 135B. Revolutionary and Modern Mexico. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Political, social, economic and cultural history of the Mexican upheaval, from 1910 to 1920, and the development of Modern Mexico since 1920.

HIST 136. Spanish Civil War. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

In-depth examination of the Spanish Civil War (1936-1939) focusing on its social, political, and cultural contexts. The course also examines the war's historical origins, immediate aftermath and implications for understanding modern Spain.
Cross listed: SPAN 129.

HIST 137A. Latin American Revolutions in the Twentieth Century. ✎ 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only

Comparative analysis of twentieth-century Latin American revolutions. Considers economic and political causes, revolutionary aims, and historical outcomes.

HIST 137B. Latin American History in Film. ✎ 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Spring only

An analysis of films representing Latin American history from conquest through present.

HIST 138A. Colonial Latin America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Survey course in the history of Latin America from the late fifteenth century to the early nineteenth century.

HIST 138B. Modern and Contemporary Latin America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Survey course in the history of Latin America from the early nineteenth centry to the present.

HIST 140. Modern East Asian Cinema. ✎ 3 Units
General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Survey of the development of cinema in Asia, focusing primarily on cinematic masterpieces from China, Hong Kong, and Japan. Focuses on directors, actors, and studios that left a lasting mark on cinema history. Also focuses on how Asian aesthetic sense differs from the Hollywood norm. Prerequisite:GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
Cross-listed: ASIA 140; only one may count for credit.

HIST 141. History of Africa Since 1800. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

European control in Africa, African primary resistance and proto-nationalist movements, decolonization and post-independence, nation-building to present.

HIST 142. History of Women in Africa. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examines the role of African women in politics, religion, the economy, the family and the arts from ancient times to the present. Considers the varying status of women in different regions of the continent. Also looks at the impact of kinship structures on women, development issues, and African responses to feminist discourse.

HIST 143A. Middle Eastern History to 1800. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Surveys the history of the Muslim Middle East from the age of the Prophet Mohammed to the late Ottoman Empire. Topics include: the Islamic religious revolution; the splintering of the Islamic community into Sunnis, Shias and other Islamic minorities; the impact of Islam upon the European West; the Crusades; and Western influence at the end of the 18th century.

HIST 143B. The Modern Middle East. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Surveys Middle Eastern history from 1800 to the present. Topics include: the late Ottoman Empire; World War I and state creation; western imperialism; Arab nationalism; Zionism; state building; modern economies and traditional societies; Islam and the modern state; and the Arab-Israeli conflict.

HIST 143C. Ottoman State and Society. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Overview of the history of the Ottoman Empire from its rise in the 13th century to its demise in the early 20th century. Topics include Ottoman state structure, military, economy, legal system, society, culture, and legacy.

HIST 144. Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder. 3 Units
Term Typically Offered: Fall, Spring

Examines the domestic and international political, social, and economic context of the overthrow of Indonesian President Sukarno, the mass murder of perhaps a million individuals associated with the Indonesian Communist Party, and subsequent US-backed military dictatorship of General Suharto.

HIST 145. South Asian History & Civilization. 3 Units
Term Typically Offered: Fall, Spring

South Asian history from the Indus Valley Civilization to the 1947 partition of British India to the nation-states of India and Pakistan. Topics include: development of Hinduism, Buddhism, Jainism, and Sikhism; rise and fall of the Mauryan, Mughal, and British empires; Indian philosophy, art, literature; South Asian expressions of Islam, Judaism, and Christianity; elite and popular religious syncretism; gender and sexuality in South Asia; Portuguese and British colonialism; South Asian nationalism; and the life and thought of Mahatma Gandhi.

HIST 146A. Cultural History of Japan to 1800. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

History of traditional Japan stressing developments in literature, drama, art, religion and philosophy in the context of political, social and economic development. Movies, slides and readings in Japanese literature will be used.

HIST 146B. Modern Japan, 1800-present. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Roots of modernization in late feudal Japan; Western impact; political, economic and social modernization; the growth and decline of democratic institutions; militarism and World War II; U.S. occupation; and Japan's impressive 'success story' 1950-present.

HIST 146C. The History of Manga. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A survey of the history of manga (Japanese graphic novels) that will trace the historical antecedents of manga from ancient Japan to today. The course will focus on major artists, genres, and works of manga produced in Japan and translated into English.

HIST 147. History of Buddhism. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examines in cultural and historical perspective, drawing from ancient and contemporary sources, the key practices and ideas of Buddhist traditions in India, China, Southeast Asia, Tibet, Japan and other surrounding regions; as well as the most recent spread of these practices and ideas to Europe, North America, and Australia.
Cross listed: HRS 147

HIST 148A. China: Antiquity to 1600 AD. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Historical development of China from the Neolithic period to the end of the 16th Century. In addition to texts and records, other sources such as archaeology, literature, and art will be examined to gain understanding of and appreciation for the longevity of China as a culture and a polity. Traditionally neglected groups such as women and the lower classes will be emphasized.

HIST 148B. China, 1600 to Present. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

The transformation of China since the 17th Century. Examines the internal tensions of population growth and social unrest, as well as external pressures of encroaching imperialism and modern values of freedom and democracy. Revolution, communism, modernization, and nationalism will be addressed.

HIST 149. The Making of Modern Southeast Asia. 3 Units
Term Typically Offered: Fall, Spring

Examines the historical formation of Southeast Asia, how European colonization integrated Southeast Asia into the global economic order, and how the region became a critical strategic zone in the Second World War and the Cold War. Traces the centuries long formation of nations of Southeast Asia, the second half will focus on political and economics developments of the 20th Century.

HIST 150. Colonial America. 3 Units
Term Typically Offered: Fall, Spring

Development of the British mainland colonies from exploration, contact, and settlement to the age of the American Revolution. Topics include: background to colonization; mercantilism, the emergence of a multicultural society; regional variation; Native Americans, slavery, women and family, community formation, religion, education, Enlightenment in America, European rivalries, imperialism.

HIST 151. The Age of the American Revolution. 3 Units
Term Typically Offered: Fall, Spring

Causes and consequences of the American Revolution. Topics include: Whig ideology, popular politics, loyalism, economic concerns, the western frontier, Native Americans, African-Americans, and women during the era, the course of the war with Great Britain, the Confederation and Constitution, social consequences of the Revolution.

HIST 152. Young Republic, 1790-1840. 3 Units
Term Typically Offered: Fall, Spring

Beginnings of government under the Constitution; the U.S. in a warring world; Thomas Jefferson and Andrew Jackson; market economy, canals and factories; nationalism, the debate over slavery, and emerging sectionalism.

HIST 153. Civil War and Reconstruction, 1840-1890. 3 Units
Term Typically Offered: Fall, Spring

Political history of the Civil War and Reconstruction. Topics include sectionalism; slavery, westward expansion, secession, the conduct of the war, industrialization, and the changing status of African Americans.

HIST 154. 20th Century United States, 1890-1940. 3 Units
Term Typically Offered: Fall, Spring

U.S. response to urban, industrial growth from the origin of the Spanish-American War to Franklin D. Roosevelt. Progressivism, Imperialism, World War I, the decade of the 1920's; Depression and the New Deal.

HIST 155. 20th Century United States, 1941-Present. 3 Units
Term Typically Offered: Fall, Spring

Social, economic, and cultural challenges and achievements in U.S. life as they are reflected in political history. Emphasis upon domestic affairs, supplemented by foreign concerns that have presented fundamental choices to the American people.

HIST 156. The Sixties: Years of Hope, Days of Rage. 3 Units
Prerequisite(s): HIST17B.
Term Typically Offered: Fall, Spring

Examines the key events and ideas that helped shape American politics and culture in the 1960s. Special emphasis placed on political power, race and racism, the role of dissent and social activism, and nonviolent civil disobedience. Covers the Vietnam War, the African-American Civil Rights movement, the Chicano movement, the women's movement, the counterculture, as well as social conflict and its resolution.

HIST 157. History of International Relations in the 20th Century. 3 Units
Term Typically Offered: Fall, Spring

Survey of the history of international relations (political, military, economic, cultural, and environmental) in the 20th century. Covers Europe, Asia, the Middle East, Africa, and the Americas, with emphasis on global events and issues from non-U.S. perspectives.

HIST 158. Military History of the United States. 3 Units
Term Typically Offered: Fall, Spring

Survey from the colonial militia to the present, including all military branches, with emphasis on the U.S. Army. In addition to doctrine, operations, weapons and warfare, focuses on the interrelationship of the military with the economic, social and political concerns of the American nation.

HIST 159. History of US Foreign Relations. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D
Term Typically Offered: Fall, Spring

Diplomatic, military, economic, and cultural relations between the U.S. and the world from 1789 to the present, with emphasis on the 20th Century; focus on transformation of U.S. into a global power.
Note: Fulfills state graduation requirement for U.S. History.

HIST 160. The United States in Vietnam, 1940-1975. 3 Units
Term Typically Offered: Fall, Spring

Case study of the making of foreign policy through seven presidencies. Identifies the causes of an American war in Vietnam and examines that involvement as a representative example of post-World War II U.S. globalism. Consideration of the domestic impact of the War and a critical examination of the 'lessons' learned from it.

HIST 161. The American Vision. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D
Term Typically Offered: Fall, Spring

Media survey of American life from the beginnings to the present. Integrates slides of American art, architecture, popular culture, and technology with history, literature and contemporary music.
Note: Fulfills state graduation requirement for U.S. History.

HIST 162. Social History of the United States. 3 Units
General Education Area/Graduation Requirement: GE AREA D, United States History
Term Typically Offered: Fall, Spring

Survey of topics in American social history from the colonial period to the middle of the Twentieth Century. Subjects may include reform movements, immigration, racial problems, religion, medicine, and the role of women.
Note: Fulfills state graduation requirement for U.S. History.

HIST 163. The City in US History. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Role of the city in the American experience, with emphasis on the rapid urbanization of the 19th and 20th centuries. Attention given to the attractions and problems of urban life and to proposals for reforming the cities.

HIST 164. History of American Capitalism. 3 Units
Term Typically Offered: Fall, Spring

Survey of U.S. business from the colonial era to the present that places U.S. business in a global context. Examines how individual entrepreneurs and regulators have contributed to the development of the modern American political economy.
Cross Listed: GOVT 164; only one may be counted for credit.

HIST 165. American Environmental History. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Traces the changing relationship between human society and the natural environment from pre-colonial era to the present. Focuses on the interplay between industrialization and nature, and examines past and present environmental movements.
Cross Listed: ENVS 165; only one may be counted for credit.

HIST 166. Popular Culture. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Focuses on entertainment and everyday life in America from the beginnings to the present. Enhances the students' understanding of how popular culture reflects and shapes the larger issues and institutions of American life.

HIST 167. History of American Women. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D
Term Typically Offered: Fall, Spring

Study of the role of women throughout American history with emphasis on the suffrage movement, abolitionism, and birth control. Considers the emancipation of women and their role in contemporary society.
Note: Fulfills state graduation requirement for U.S. History.

HIST 168. Images Of America. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Interdisciplinary survey of major events, trends and figures in American history viewed through American literature, visual arts, music and architecture. The arts in America are studied in relation to major ideas, significant personalities and important historical events from the period of the early republic to the present.
Cross Listed: HRS 168; only one may be counted for credit.

HIST 169. Hollywood and America. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Chronological survey of American films and their cultural significance from the 1890's to the present. Focus on films produced in Hollywood, the contexts in which they were created, and the impact of Hollywood as a mythical place in the development of American culture.
Cross-listed: HRS 169; only one may be counted for credit.

HIST 170A. Sports in American History. 3 Units
Explores the significance of sports in American history from the colonial era to the present. Examines how the social, cultural, and economic role of sports in the American experience intersects with race, class, gender, immigration, citizenship, and nationality. Considers the wide-ranging articulations of popular sports in the public imaginary throughout the 20th century.

HIST 171A. American Indian History to 1840. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

History of North American native people from before the European invasion to 1840. Particular attention given to the formation of indigenous societies before and during European colonization of the Americas and to the experience of Indian cultures, societies, and nations in the early U.S.

HIST 171B. American Indian History since 1840. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

History of North American native people from 1840 to the present. Particular attention given to Indian nations' engagement with the Indian policies of the United States and the persistence and adaptation of American Indian cultures, societies, and identities in the modern U.S.

HIST 172. LGBTQ Histories. 3 Units
Term Typically Offered: Fall only

This course provides an introduction to the study of lesbian, gay, bisexual, transgender, and queer (LGBTQ) histories. Uses an interdisciplinary and comparative approach to explore the historical emergence and development of LGBTQ identities, communities, and political movements. Includes theoretical analysis of the history of gender and sexuality and the practice of historical analysis.
Cross Listed: WOMS 172; only one may be taken for credit.

HIST 173. The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring

Examines the campaign for civil rights waged by African Americans from the Reconstruction era through the present. Treats the movement's roots, goals, main organizations, and its relationship with African American culture in this period. Includes a comparison with the experiences of Mexican Americans and Native Americans.

HIST 174A. History of Disability in the United States. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Study of mental and physical disability in United States history from colonial times to the present. Emphasizes disability as a social and cultural construction and examines how disability intersects with historical constructions of race, class, gender, and sexuality. Includes lived experiences of disabled Americans, changing cultural perceptions of disabled Americans, and disability activism and legislative action, including the passage of the Americans with Disabilities Act and its aftermath.

HIST 175A. Sex, Population, and Birth Control in America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only – odd years

Explores efforts to control reproduction in America in the nineteenth and twentieth centuries. It examines the medical and legal institutions that shaped public policy and the general public's response to efforts to regulate citizens' reproduction, sexuality, and healthcare. It also investigates how race, ethnicity, class, and gender determined the types of reproductive choices available to Americans.

HIST 175B. Health, Death and Disease in America. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Spring only – even years

An examination of American medicine from the colonial era through the present from a multi-cultural perspective, including how measures of health determined the monetary value of enslaved Americans in the colonial and antebellum eras and how Americans ability to access healthcare has been based upon their race, class, gender, and (dis)ability. Also addresses challenges to established medical practices launched by the womens health movement, civil rights activists, the Black Panther Party, and the right-to-die movement.

HIST 176. African Cultural Heritage in the Americas. 3 Units
Term Typically Offered: Fall, Spring

Focuses on the legacies of African cultural and social systems among the diasporic Africans in the Americas in the 19th and 20th centuries. Primary focus is on the U.S., but also examines African retentions in Jamaica, Haiti, Cuba, and South America.
Cross Listed: ETHN 176; only one may be counted for credit.

HIST 177. The African-American Experience, 1603-Present. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE), United States History
Term Typically Offered: Fall, Spring

Gives students an understanding of African-American history from the colonial period to the present. Focuses on African-Americans as active agents in shaping U.S. History, and analyzes the issues, ideas and strategies they have developed and used in their struggle for justice and equality.
Note: Fulfills the state graduation requirements for U.S. History.

HIST 178. Mexican-American History. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Explores the contours of Mexican American history from the Spanish colonial experience through the present. Examines the roots of the Chicano community in the U.S. conquest of the Southwest, the twentieth-century immigration experience, the development of diverse Chicano communities after 1900, and the struggles for full civil rights in American society. Compared with the experiences of African Americans and Native Americans.

HIST 179. American Immigration History. 3 Units
Term Typically Offered: Fall, Spring

Study of immigration in American life. Particular attention given to the shifting causes and patterns of immigration, similarities and differences among the experiences of immigrants in the U.S., nativism, the development of immigration restrictions, and the effects of immigration on the life of the nation over time.

HIST 180. American Legal History. 3 Units
Term Typically Offered: Fall only

Examines the interaction of law, society, and politics in America from the colonial period to the present, with special emphasis on law as an arena of social and cultural conflict. Major topics include the development of the common law in early America; the law of slavery and its impact on constitutional development; the role of the law in defining controversies over race and gender; legal thought and education; and the role of the Supreme Court in 20th Century America.

HIST 181. Anarchists and Revolutionaries: Transnational Radicalism in America. 3 Units
Term Typically Offered: Fall, Spring

This course explores the intersection of anti-authoritarian ideologies, transnational migration and anarchist movements in the United States. It will focus on the time period of 1871 through 1940 and the ways in which concepts of 'liberty' informed radical movements. Topics may include: European and Caribbean origins of anti-authoritarianism, immigrant enclaves, radical labor, anarchism, anarchist periodicals, and selected liberation movements.

HIST 182. American West. 3 Units
Term Typically Offered: Fall, Spring

Study of the Spanish and Indian frontiers, the advance of the Anglo-American settlers, and the emergence of the modern West.

HIST 183A. California History, 1542-1860. 3 Units
Term Typically Offered: Fall, Spring

Study of the people, institutions and cultural influence of Spanish-Mexican California and the changes brought by U.S. conquest and the Gold Rush.

HIST 183B. California History, 1860-1970. 3 Units
Term Typically Offered: Fall, Spring

Study of the social, political and economic evolution of California from construction of the first continental railroad link to the present, focusing on issues which are still significant in the state.

HIST 184. California Architecture and Urban History. 3 Units
Term Typically Offered: Fall, Spring

A survey of the history of California architecture and its impact on the urban environment from Native Americans to the 20th Century. Particular attention will be given to architecture as a statement of social, economic, and political empowerment.
Cross Listed: ART 118B; only one may be counted for credit.

HIST 185. California Indian History. 3 Units
Term Typically Offered: Fall, Spring

Historical study of California's native people and Indian-white relations from the Spanish colonial era to the present.

HIST 186A. The California Gold Rush. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only

Study of the social, cultural, economic, political, and environmental influences of the California Gold Rush in the contexts of state, national, and world history.

HIST 186B. History of California Water. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
Term Typically Offered: Fall, Spring

Study of the history of water in California, including its social, cultural, legal, economic, political, land use, and environmental significance.

HIST 186C. Sacramento History. 3 Units
Term Typically Offered: Fall only

Surveys the history of Sacramento and the lower Sacramento Valley through the nineteenth, twentieth, and early twenty-first centuries. Using local history methodologies, explores landscape change and patterns of community development in Sacramento and situates the city and region within national and global historical contexts.

HIST 187. Topics in United States History 1600-1900. 3 Units
Prerequisite(s): HIST 17A.
Term Typically Offered: Fall, Spring

Designed for students who want to acquire multiple subject teaching credentials. Examines United Stated history between 1600 and 1900 from a topical perspective, focusing on large themes and trends. Builds upon HIST 17A.

HIST 188. American Labor History. 3 Units
Term Typically Offered: Fall, Spring

Survey of the history of working people in the United States from the colonial period to the present. Topics include labor systems from slavery to wage work, strategies of labor organizations, race and labor, radicalism and reform, immigration and labor, labor and leisure, women and work, and globalization.

HIST 189. California Dreamin': A Cultural History of California since 1840. 3 Units
Term Typically Offered: Fall, Spring

Study of the cultural history of California as reflected in the humanities - art, music, literature, and film - from early American settlement and conquest to the present.

HIST 190. Clio: Editing and Publishing in History. 3 Units
Prerequisite(s): HIST 100
Term Typically Offered: Spring only

Seminar devoted to learning the editing and publishing side of the history profession. Students will produce the student history journal Clio.

HIST 191. Seminar in Historical Interpretation and Analysis. 3 Units
Prerequisite(s): HIST 100 and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Reading seminar in philosophy of history, historical methodology, and historical reasoning. Special focus on the instructor's field of expertise. Designed for History majors and present and prospective teachers of history.
Note: Not open to lower division students.

HIST 192A. Seminar in Recent Interpretations of United States History. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of United States history. Designed especially for History majors and present and prospective teachers of history.
Note: Not open to lower division students.

HIST 192B. Seminar in Recent Interpretations of European History. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of European history. Designed especially for History majors and present and prospective teachers of history.
Note: Not open to lower division students.

HIST 192C. Seminar in Recent Interpretations of Asian History. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of Asian history. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 192E. Seminar in Recent Interpretations of African History. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of African history. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 192F. Seminar in Recent Interpretations of Latin American History. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of Latin American history. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 192Z. Seminar in Recent Interpretations of a Special Topic. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of a special topic. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 193. Public History. 3 Units
Prerequisite(s): HIST 100
Term Typically Offered: Fall, Spring

Course engages students in the work of historians in public practice. Covers theory and methods of public history through hands-on experience, field trips, guest speakers, and directed readings and discussion. Topics include: Archives, Museums, Historic Preservation, Cultural Resource Management, Heritage Tourism, Digital History, World Heritage, and Historical Memory.
Note: Field trip. Students will be required to attend field trips to public history institutions both on and off campus.

Field trip(s) may be required.

HIST 194. Oral History: Theory and Practice. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M/W.
Term Typically Offered: Fall, Spring

Introduces students to the theory and practice of oral history. Examines ethical and legal issues as well as problems of accuracy in memory. Students will also learn how to conduct, transcribe, and edit oral histories and develop oral history projects.

HIST 195A. History Internship. 3 Units
Prerequisite(s): Permission of the faculty internship director.
Term Typically Offered: Fall, Spring, Summer

Supervised work and project experience with history-related agencies and organizations, developing entry level skills. May not be repeated for credit.
Credit/No Credit

HIST 195B. Advanced History Internship. 3 Units
Prerequisite(s): HIST 195A and permission of the faculty internship director.
Term Typically Offered: Fall, Spring, Summer

Supervised work and project experience with history-related agencies and organizations, developing more advanced entry level skills and practice in communicating history to public audiences. May not be repeated for credit.
Credit/No Credit

HIST 195T. History Pre-credential Internship. 3 Units
Prerequisite(s): HIST 17A, HIST 17B, HIST 50, HIST 51, and HIST 100; permission of instructor.
Term Typically Offered: Fall, Spring

Supervised classroom observations and historical research to assist with curriculum development in secondary grade level history classrooms, with accredited schools, teaching related agencies and organizations. Students improve historical research skills, content mastery, and develop knowledge of using primary sources in history teaching. Students are exposed to secondary grade level history classrooms and observe instructional methods.
Note: Limited to upper division majors in the pre-credential program and students who have an interest in teaching history at the secondary level.

Credit/No Credit

HIST 196M. Japanese History in Japan. 3 Units
Term Typically Offered: Winter

A three-week course, with a two week Study-Abroad portion to Matsuyama Japan. Students will learn about Japanese history in both a classroom setting and through field trips to local sites in Ehime and Hiroshima prefectures. Field trip.
Field trip(s) may be required.

HIST 197A. Senior Research Seminar: United States History. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Research seminar in historical writing in which students will complete a research paper in United States History based on primary sources. Subject will vary according to instructor. Recommended for the second semester of the senior year.
Note: Not open to lower division students.

HIST 197B. Senior Research Seminar: World History. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Research seminar in historical writing in which students will complete a research paper in world history based on primary sources. Subject will vary according to instructor. Recommended for the second semester of the senior year.
Note: Not open to lower division students.

HIST 197C. Senior Research Seminar: Public History. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Introduction to bibliographic and research skills in secondary and primary sources, and the development of expertise in writing historical reports. Particular attention to regional research libraries, manuscript repositories and archival facilities.
Note: Not open to lower division students.

HIST 198. Summative Assessment for Teachers. 3 Units
Corequisite(s): HIST 100.
Term Typically Offered: Fall, Spring

Capstone seminar that serves as a bridge between academic preparation and entry into a professional teacher credential program. Students will examine social science-history in the State curriculum framework, reflect on subject matter preparation, focus on middle and high school social science teaching and learning, investigate and evaluate resources pertinent to instruction, and explore current issues in education.

HIST 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work.
Credit/No Credit

HIST 200. History and Theory. 3 Units
Prerequisite(s): Classified standing in History or instructor permission.
Term Typically Offered: Fall, Spring

Study of the theoretical schools and debates that have most influenced historical research and writing in the modern era. Introduces students to both important theoretical texts and their applied use. It is designed to provide an intellectual foundation for subsequent graduate-level history seminars.
Note: Graduate Writing Intensive (GWI) course.

HIST 201. Interpreting World History. 3 Units
Prerequisite(s): Classified graduate status in History or instructor permission.
Term Typically Offered: Fall, Spring

Study of historical interpretations of major issues and problems in world history. Helps students to define world history as a field and to consider different approaches to teaching and/or researching world history topics.

HIST 202. Interpreting U.S. History. 3 Units
Prerequisite(s): Classified graduate status in History or instructor permission.
Term Typically Offered: Fall, Spring

Study of historical interpretations of major issues and problems in US history. Helps students to define US history as a field and to consider different approaches to teaching and/or researching US history topics.

HIST 203. Public History Principles and Techniques. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Provides an introduction to public history by surveying the major topics in the field through readings, discussion, and guest lectures. Students will learn about the history of public history, employment opportunities for public historians, and public historical issues.
Note: Graduate Writing Intensive (GWI) course.

HIST 209A. Research and Writing in US History. 3 Units
Prerequisite(s): Classified standing in History or instructor permission.
Term Typically Offered: Fall, Spring

Research seminar in fields of special interest. Topics will be announced each semester.

HIST 209B. Research and Writing in the History of the American West. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Research seminar in fields of special interest in the history of the American West. Topics will be announced each semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 209C. Research and Writing in World History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Research seminar in fields of special interest in the history of regions outside the U.S. Topics will be announced each semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 280A. Reading Seminar in African or Asian History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature on a topic in African or Asian history. The area or topic to be studied will change from term to term.
Note: May be repeated for credit provided the period or the topic is different.

HIST 280B. Reading Seminar in Ancient or Medieval European History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature on a topic in ancient or medieval European history. The area or topic to be studied will change from term to term.
Note: May be repeated for credit provided the period or the topic is different.

HIST 280C. Reading Seminar in Modern European History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature on a topic in early modern or modern European history. The area or topic to be studied will change from term to term.
Note: May be repeated for credit provided the period or the topic is different.

HIST 280Z. Reading Seminar: Topics in World History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature in world history. The area of topic to be studied will change from term to term.
Note: May be repeated for credit provided the period or the topic is different.

HIST 281A. Reading Seminar in Colonial or Early US History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature of a particular period or topic in colonial North American or early U.S. history; the era or topic to be studied will vary from semester to semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 281B. Reading Seminar in Nineteenth Century US History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature of a particular period or topic in nineteenth century U.S. history; the era or topic to be studied will vary from semester to semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 281C. Reading Seminar in Modern US History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature of a particular period or topic in U.S. history after 1900; the era or topic to be studied will vary from semester to semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 281Z. Reading Seminar: Topics in United States History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of significant historical literature of a particular period or topic in U.S. history; the era or topic to be studied will vary from semester to semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 282A. Research Seminar in Public History. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Professional training in the research and analysis of cartographic, archival, architectural, and artifactual sources related to public history. Attention to such research areas as cultural resources management, environmental impact, and historic sites and structures.

HIST 282B. Archives and Manuscripts. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Professional training in archives and manuscripts administration. Historical development of archives and manuscripts administration, theoretical concepts that underlie the discipline, integration of these concepts into practice, and various uses of archival resources.

HIST 282C. Oral History. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Professional training in oral history, with attention to the field's historical and theoretical development. Emphasis is placed on the methodology of oral history in the context of selected public history topics. Students learn to prepare for, conduct, transcribe, and edit oral history interviews.

HIST 282D. Museum Studies. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Intensive introduction to museum theory, practice, and management. Concentrates on providing an understanding of museums including museum exhibitions, collections, and acquisition policy. Students will have opportunities for practical museum experience and for meeting museum professionals.

HIST 282E. Historic Preservation. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Overview of the different aspects of historic preservation, including downtown revitalization, neighborhood organization, historic site management, preservation legislation, preservation education and historic architecture. The history of historic preservation in the U.S. Students will engage in on-site visits to historic sites.

HIST 282F. History and Memory. 3 Units
Prerequisite(s): Classified standing in Public History, History or instructor permission.
Term Typically Offered: Fall, Spring

Study of theoretical schools and debates regarding the formation, transformation, and transmission of collective memory. Draws upon theoretical literature on group memories from the social sciences and humanities, and it examines the importance of this literature for public and academic historians.

HIST 282Z. Special Topics in Public History. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Intensive seminar in a particular topic related to public history studies. Topics may include urban history, California history, demographics, visual history and public history.

HIST 290. Clio: Editing and Publishing in History. 3 Units
Term Typically Offered: Spring only

Seminar devoted to learning the editing and publishing side of the history profession. Students will produce the student history journal Clio.

HIST 295. History Internship. 3 Units
Prerequisite(s): Graduate status and permission of faculty internship director.
Term Typically Offered: Fall, Spring

Supervised work and project experience with history-related agencies and organizations, developing entry-level professional skills.
Note: May be repeated for credit

Credit/No Credit

HIST 297. Advanced Internship. 3 Units
Prerequisite(s): HIST 295 and permission of the faculty internship director.
Term Typically Offered: Fall, Spring

Professional work experience in a specialized field of public history, with training and supervision as part of the Capital Campus Graduate Program in Public History.
Credit/No Credit

HIST 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work; May be repeated for credit.

Credit/No Credit

HIST 400. The Teaching of History in College. 3 Units
Term Typically Offered: Fall, Spring

Seminar devoted to the teaching of college history. Students will intern in lower division courses.

HIST 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy.
Term Typically Offered: Fall, Spring

Credit given upon successful completion of one of the following: A.) Thesis. An original contribution to historical knowledge, which includes the statement of a problem, a review of pertinent literature, the collection and presentation of relevant material, a conclusion, and a formal bibliography, all presented with appropriate documentation; OR B.) Project. A significant undertaking appropriate to public history, based upon the relevant literature, research skills, and applied expertise in areas of professional concern. Available for MA, Public History Option students only; OR C.) Comprehensive Examination. Structured and supervised reading programs for MA candidates preparing for the History Comprehensive Examination.

BA in History

Units required for Major: 42
Total units required for BA: 120

Program Description

History, in the broad sense, is the study of all human experience. It examines the people, institutions, ideas, and events from the past to the present. The study of history contributes to cultural literacy and develops critical thinking and other useful skills while helping students understand the present and plan for the future. Historical study provides a solid, fundamental preparation for careers in business, industry, government, and education. It also serves as excellent preparation for law school, foreign service, international work, urban affairs, historical consulting, and library science.

History is an academic discipline offering both breadth and focus. At Sacramento State, the History major includes four lower division survey courses and three upper division seminars. In addition, students choose seven upper division electives from a wide variety available. The flexibility of the major allows students to focus on topical areas such as: women's history, the history of particular geographic areas, cultural history, ethnic group history, economic history, military history, and history from the ancient world to that of the U.S. in the 20th Century. Teaching credential candidates should complete the History/Social Science Pre-credential Program.

Minimum Grade Requirement

A minimum grade of 'C-' is required in courses applied to the major.

Program Requirements

Code	Title	Units
Required Lower Division Courses (12 Units)		
HIST 17A	United States History, 1607-1877 [1]	3
HIST 17B	United States History, 1877-Present [1]	3
Select one of the following sets:		6
HIST 4 & HIST 5	Survey of Early Western Civilization Survey of Modern Western Civilization [1]	
HIST 50 & HIST 51	World Civilizations, Beginnings-1600 World History from 1500 to the Present. [1]	
Required Upper Division Seminars (9 Units) [2]		
HIST 100	Introduction to Historical Skills	3
Select one of the following:		3
HIST 192A	Seminar in Recent Interpretations of United States History	
HIST 192B	Seminar in Recent Interpretations of European History	
HIST 192C	Seminar in Recent Interpretations of Asian History	
HIST 192E	Seminar in Recent Interpretations of African History	
HIST 192F	Seminar in Recent Interpretations of Latin American History	
HIST 192Z	Seminar in Recent Interpretations of a Special Topic	
Select one of the following:		3
HIST 197A	Senior Research Seminar: United States History	
HIST 197B	Senior Research Seminar: World History	
HIST 197C	Senior Research Seminar: Public History	
Upper Division Electives (21 Units)		
Select one course in U.S. History		3
Select one course in European History		3
Select one course in the History of Africa, Asia, Latin America, or the Middle East		3

Select four additional upper division history courses selected in consultation with an advisor	12
Total Units	42

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Students should take HIST 100 in the second semester of their sophomore year; transfer students should take it in the first semester of their junior year after completion of at least 6 units of required lower division coursework. After completing the majority of their upper division electives and passing the Writing Placement for Juniors Exam, history majors should take one seminar from the HIST 192 series followed by one from the HIST 197 series. Typically, students take the HIST 197 seminar during their senior year.

Notes:

- Students should consult with a faculty advisor in their first semester at Sacramento State.
- Study of a foreign language is recommended.
- For substitutions in requirements, students should consult with a faculty advisor early in their program. Substitutions require the approval of the Department Chair.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6 Units)		
C1 - Arts		3
C2 - Humanities [2]		0
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course		3
Area D Course [2]		0
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		37

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

MA in History (Comprehensive Option)

Total units required for the MA: 30

Program Description

The Master of Arts program in History introduces students to the use of the historical method, the critical investigation of problems in historical study, and the analysis and interpretation of primary source material. These skills are valuable in many professions, especially to students interested in pursuing graduate study culminating in the doctorate in History, experienced teachers of history in public schools, students who wish to teach in California Community Colleges, and to students seeking employment in archival management, oral history, consulting, and public sector historical research.

California State University, Sacramento is well situated to offer rich historical resources in several fields of study. The California State Archives, the California State Library and the Sacramento Archives and Museum Collection Center offer unique opportunities for the

study of Western and California History. The presence of many state and community agencies dealing with historic preservation offers possibilities for stimulating internships, and the history graduate program is also able to draw upon rich materials in a number of areas of United States, European, and world history located in the Sacramento State Library.

Admission Requirements

Admission as a classified graduate student in the Standard and the Public History programs requires:

- a baccalaureate degree;
- an undergraduate major in History, **OR** a minimum of 27 semester units in History, or a closely related field, approved by the Graduate Coordinator. Fifteen of the units must be upper division and include one seminar from the HIST 192 series (or equivalent) and one seminar from HIST 197 series (or equivalent); and
- a minimum 3.0 GPA in the last 60 units attempted and a minimum 3.25 GPA in History courses.

Students who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted to the degree program with conditionally classified graduate status. Any deficiencies will be noted on a written response to the admission application. The department Graduate Coordinator will specify courses to be taken by students with fewer than 27 units of history and/or without the required seminars. Work taken to remove such deficiencies may not be counted toward the master's degree.

Admission Procedures

Applicants should file two applications: one to the Sacramento State Office of Graduate Studies for admission to the University, and the other to the Department of History for classified status in the History master's program. Please check with the Department office for the official deadline.

All applicants, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for admission; and
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State*.

For more admissions information and application deadlines please visit http://www.csus.edu/gradstudies/.

Applicants must also file the following with the Sacramento State History Department:

- a Department Application for Admission (available through the History Department office or Web site);
- a statement of purpose of at least 250 words. This statement should include reasons for applying to the master's program, career objectives and an explanation of how the program will help achieve them, relevant professional training, experience, internships, or volunteer activities, and any non-academic skills, interests, or notable accomplishments that may be pertinent to the application;
- two letters of recommendation. Letters should ideally come from university instructors, but if these are not available, any other credible source who can address qualifications will be acceptable (i.e., work supervisor, clergy, or community leader);
- a set of transcripts from all colleges attended, including Sacramento State (unofficial transcripts will suffice);
- academic writing sample (optional but highly encouraged).

Applicants will be informed of the Admission Committee's decision within six weeks of the Department's application deadline.

Minimum Units and Grade Requirements for the Degree

Units required for the MA: 30
Minimum Cumulative GPA: 3.0

Advancement To Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one 200-level course;
- determined with the History Graduate Coordinator whether to attempt the thesis, examination, or project (Public History and Specialized Options only) as the Culminating Requirement;
- determined which department faculty member will supervise the student's work and act as his/her History advisor;
- filed and received departmental approval of a Petition for Approval of Thesis/Examination/Project (only in the Public History and Specialized Options); and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Students must file their Advancement to Candidacy in the semester prior to enrolling in HIST 500, Culminating Experience.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with his/her History advisor. The completed form is then returned to the Graduate Coordinator and the Office of Graduate Studies for approval.

Note: A foreign language is not a degree requirement. However, students who plan further graduate study in History are encouraged to study French, German, or another foreign language since proficiency in two foreign languages is usually required in doctoral programs.

Program Requirements

Code	Title	Units
Required Courses (21 Units)		
HIST 200	History and Theory	3
HIST 201	Interpreting World History	3
HIST 202	Interpreting U.S. History	3
HIST 400	The Teaching of History in College (May be replaced with an additional HIST 280 or HIST 281 series course with approval of Graduate Coordinator)	3
Select one of the following:		3
HIST 209A	Research and Writing in US History	
HIST 209B	Research and Writing in the History of the American West	

HIST 209C	Research and Writing in World History	
Select one of the following:		3
HIST 280A	Reading Seminar in African or Asian History	
HIST 280B	Reading Seminar in Ancient or Medieval European History	
HIST 280C	Reading Seminar in Modern European History	
HIST 280Z	Reading Seminar: Topics in World History	
Select one of the following:		3
HIST 281A	Reading Seminar in Colonial or Early US History	
HIST 281B	Reading Seminar in Nineteenth Century US History	
HIST 281C	Reading Seminar in Modern US History	
HIST 281Z	Reading Seminar: Topics in United States History	
Electives (6 Units)		
Select 6 units [1]		6
Culminating Requirement (3 Units)		
HIST 500	Culminating Experience [2]	3
Total Units		30

[1] Elective courses in History (graduate seminars or upper division courses) and up to 3 units from fields, as approved by History. HIST 280 and HIST 281 series courses may be repeated and counted in this area if the course topic is different.

[2] Students may not enroll in HIST 500 until all 'Incomplete' grades received up to that point are completed. Students who receive 'Incomplete' grades in coursework after enrolling in HIST 500 will not receive final approval on thesis or examination until a passing grade has been assigned to incomplete coursework.

MA in History (Specialized Option)

Total units required for the MA: 30

Program Description

The Master of Arts program in History introduces students to the use of the historical method, the critical investigation of problems in historical study, and the analysis and interpretation of primary source material. These skills are valuable in many professions, especially to students interested in pursuing graduate study culminating in the doctorate in History, experienced teachers of history in public schools, students who wish to teach in California Community Colleges, and to students seeking employment in archival management, oral history, consulting, and public sector historical research.

California State University, Sacramento is well situated to offer rich historical resources in several fields of study. The California State Archives, the California State Library and the Sacramento Archives and Museum Collection Center offer unique opportunities for the study of Western and California History. The presence of many state and community agencies dealing with historic preservation offers possibilities for stimulating internships, and the history graduate program is also able to draw upon rich materials in a number of areas of United States, European, and world history located in the Sacramento State Library.

Admission Requirements

Admission as a classified graduate student in the Standard and the Public History programs requires:

- a baccalaureate degree;
- an undergraduate major in History, **OR** a minimum of 27 semester units in History, or a closely related field, approved by the Graduate Coordinator. Fifteen of the units must be upper division and include one seminar from the HIST 192 series (or equivalent) and one seminar from HIST 197 series (or equivalent); and
- a minimum 3.0 GPA in the last 60 units attempted and a minimum 3.25 GPA in History courses.

Students who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted to the degree program with conditionally classified graduate status. Any deficiencies will be noted on a written response to the admission application. The department Graduate Coordinator will specify courses to be taken by students with fewer than 27 units of history and/or without the required seminars. Work taken to remove such deficiencies may not be counted toward the master's degree.

Admission Procedures

Applicants should file two applications: one to the Sacramento State Office of Graduate Studies for admission to the University, and the other to the Department of History for classified status in the History master's program. Please check with the Department office for the official deadline.

All applicants, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for admission; and
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State*.

For more admissions information and application deadlines please visit http://www.csus.edu/gradstudies/.

Applicants must also file the following with the Sacramento State History Department:

- a Department Application for Admission (available through the History Department office or Web site);
- a statement of purpose of at least 250 words. This statement should include reasons for applying to the master's program, career objectives and an explanation of how the program will help achieve them, relevant professional training, experience, internships, or volunteer activities, and any non-academic skills, interests, or notable accomplishments that may be pertinent to the application;
- two letters of recommendation. Letters should ideally come from university instructors, but if these are not available, any other credible source who can address qualifications will be acceptable (i.e., work supervisor, clergy, or community leader);
- a set of transcripts from all colleges attended, including Sacramento State (unofficial transcripts will suffice);
- academic writing sample (optional but highly encouraged).

Applicants will be informed of the Admission Committee's decision within six weeks of the Department's application deadline.

Minimum Units and Grade Requirements for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0

Advancement To Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one 200-level course;
- determined with the History Graduate Coordinator whether to attempt the thesis, examination, or project (Public History and Specialized Options only) as the Culminating Requirement;
- determined which department faculty member will supervise the student's work and act as his/her History advisor;
- filed and received departmental approval of a Petition for Approval of Thesis/Examination/Project (only in the Public History and Specialized Options); and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Students must file their Advancement to Candidacy in the semester prior to enrolling in HIST 500 (http://catalog.csus.edu/search/?P=HIST %20500/), Culminating Experience.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with his/her History advisor. The completed form is then returned to the Graduate Coordinator and the Office of Graduate Studies for approval.

Note: A foreign language is not a degree requirement. However, students who plan further graduate study in History are encouraged to study French, German, or another foreign language since proficiency in two foreign languages is usually required in doctoral programs.

Program Requirements

Code	Title	Units
Required Courses (18 Units)		
HIST 200	History and Theory	3
Select one of the following:		3
HIST 201	Interpreting World History	
HIST 202	Interpreting U.S. History	
Select one of the following:		3
HIST 209A	Research and Writing in US History	
HIST 209B	Research and Writing in the History of the American West	
HIST 209C	Research and Writing in World History	
Select three of the following:		9
HIST 280A	Reading Seminar in African or Asian History	
HIST 280B	Reading Seminar in Ancient or Medieval European History	
HIST 280C	Reading Seminar in Modern European History	
HIST 280Z	Reading Seminar: Topics in World History	
HIST 281A	Reading Seminar in Colonial or Early US History	
HIST 281B	Reading Seminar in Nineteenth Century US History	
HIST 281C	Reading Seminar in Modern US History	
HIST 281Z	Reading Seminar: Topics in United States History	
Electives (9 Units)		
Select 9 units [1]		9
Culminating Requirement (3 Units)		
HIST 500	Culminating Experience [2]	3
Total Units		30

1. Elective courses in History (graduate seminars or upper division courses) and up to 3 units from related fields, as approved by the Graduate Director. HIST 280 and HIST 281 series courses may be repeated and counted in this area if the course topic is different.
2. Students may not enroll in HIST 500 until all 'Incomplete' grades received up to that point are completed. Students who receive 'Incomplete' grades in coursework after enrolling in HIST 500 will not receive final approval on thesis, examination, or project until a passing grade has been assigned to incomplete coursework.

No more than 9 units of supervisory courses (see the following) may be counted toward the degree.

Code	Title	Units
HIST 295	History Internship	3
HIST 297	Advanced Internship	3
HIST 299	Special Problems	1 - 3
HIST 400	The Teaching of History in College	3
HIST 500	Culminating Experience	3

MA in Public History

Total units required for the MA: 36 including 9 units of supervised professional internship

Program Description

The Public History Program offers a two-year course of study leading to the Master of Arts as a degree option within the History Department. The program provides an integrated professional curriculum that includes specialized project and internship experience in several concentrations including: archives and manuscripts, business history, oral history, public history research and analysis, and historic preservation. All students pursue a common course of study, gain professional experience through a series of internships, and complete a master's project or thesis within their area of program specialization.

Program requirements meet the educational guidelines of the Society of American Archivists, the Oral History Association, and the National Council on Public History. Graduates are qualified for listing on the Professional Register of Public Historians maintained by the California Committee for the Promotion of History.

All applicants must meet the requirements for admission as a classified graduate student in History. Applicants are also encouraged (but not required) to submit both verbal and quantitative scores from the aptitude portion of the Graduate Record Examination with their admission application.

Applications are available from the History Department Office. Students who are not enrolled in the program may take public history courses on a space available basis, with instructor permission.

Admission Requirements

Admission as a classified graduate student in the Standard and the Public History programs requires:

- a baccalaureate degree;
- an undergraduate major in History, **OR** a minimum of 27 semester units in History, or a closely related field, approved by the Graduate Coordinator. Fifteen of the units must be upper division and include one seminar from the HIST 192 series (or equivalent) and one seminar from HIST 197 series (or equivalent); and
- a minimum 3.0 GPA in the last 60 units attempted and a minimum 3.25 GPA in History courses.

Students who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted to the degree program with conditionally classified graduate status. Any deficiencies will be noted on a written response to the admission application. The department Graduate Coordinator will specify courses to be taken by students with fewer than 27 units of history and/or without the required seminars. Work taken to remove such deficiencies may not be counted toward the master's degree.

Admission Procedures

Applicants should file two applications: one to the Sacramento State Office of Graduate Studies for admission to the University, and the other to the Department of History for classified status in the History master's program. Please check with the Department office for the official deadline.

All applicants, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for admission; and
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State*.

For more admissions information and application deadlines please visit http://www.csus.edu/gradstudies/.

Applicants must also file the following with the Sacramento State History Department:

- a Department Application for Admission (available through the History Department office or Web site);
- a statement of purpose of at least 250 words. This statement should include reasons for applying to the master's program, career objectives and an explanation of how the program will help achieve them, relevant professional training, experience, internships, or volunteer activities, and any non-academic skills, interests, or notable accomplishments that may be pertinent to the application;
- two letters of recommendation. Letters should ideally come from university instructors, but if these are not available, any other credible source who can address qualifications will be acceptable (i.e., work supervisor, clergy, or community leader);
- a set of transcripts from all colleges attended, including Sacramento State (unofficial transcripts will suffice);
- academic writing sample (optional but highly encouraged).

Applicants will be informed of the Admission Committee's decision within six weeks of the Department's application deadline.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 36 including 9 units of supervised professional internship

Minimum Cumulative GPA: 3.0

Advancement To Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one 200-level course;
- determined with the History Graduate Coordinator whether to attempt the thesis, examination, or project (Public History and Specialized Options only) as the Culminating Requirement;
- determined which department faculty member will supervise the student's work and act as his/her History advisor;
- filed and received departmental approval of a Petition for Approval of Thesis/Examination/Project (only in the Public History and Specialized Options); and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Students must file their Advancement to Candidacy in the semester prior to enrolling in HIST 500 (http://catalog.csus.edu/search/?P=HIST%20500/), Culminating Experience.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with his/her History advisor. The completed form is then returned to the Graduate Coordinator and the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Courses (12 Units)		
HIST 202	Interpreting U.S. History	3
HIST 203	Public History Principles and Techniques ✎	3
HIST 282A	Research Seminar in Public History	3
Select one of the following:		3
HIST 200	History and Theory ✎	
HIST 282F	History and Memory	
Elective Courses (12 Units)		
Select four of the following: [1]		12
HIST 281A	Reading Seminar in Colonial or Early US History	
HIST 281B	Reading Seminar in Nineteenth Century US History	
HIST 281C	Reading Seminar in Modern US History	
HIST 281Z	Reading Seminar: Topics in United States History	
HIST 282B	Archives and Manuscripts	
HIST 282C	Oral History	
HIST 282D	Museum Studies	
HIST 282E	Historic Preservation	
HIST 282Z	Special Topics in Public History	

Internship Requirement (9 Units)		
HIST 295	History Internship (course taken twice for a total of 6 units)	3
HIST 297	Advanced Internship	3
Culminating Requirement (3 Units) [2]		
HIST 500	Culminating Experience [3]	3
Total Units		36

[1] No more than one seminar from the HIST 281 series can be included as a Public History program elective.

[2] Students complete either a master's thesis or master's project under the guidance of the Public History faculty. Students will make an oral presentation and defense of their thesis/project before a committee of at least two faculty members including the director of the MA thesis/project.

[3] Students may not enroll in HIST 500 until all 'Incomplete' grades received up to that point are completed. Students who receive 'Incomplete' grades in coursework after enrolling in this course will not receive final approval on thesis or examination until a passing grade has been assigned to incomplete coursework.

Minor in History

Units required for Minor: 24, all of which must be taken in History; a minimum of 12 upper division units is required

Program Description

History, in the broad sense, is the study of all human experience. It examines the people, institutions, ideas, and events from the past to the present. The study of history contributes to cultural literacy and develops critical thinking and other useful skills while helping students understand the present and plan for the future. Historical study provides a solid, fundamental preparation for careers in business, industry, government, and education. It also serves as excellent preparation for law school, foreign service, international work, urban affairs, historical consulting, and library science.

Minimum Grade Requirement

Grade 'C-' or better required for courses applied to the minor.

Program Requirements

Code	Title	Units
HIST 17A	United States History, 1607-1877	3
HIST 17B	United States History, 1877-Present	3
Select one of the following sets:		6
HIST 4 & HIST 5	Survey of Early Western Civilization Survey of Modern Western Civilization	
HIST 50 & HIST 51	World Civilizations, Beginnings-1600 World History from 1500 to the Present.	
Select 12 units of Upper Division History Courses		12
Total Units		24

Minor in Latin American Studies

Units required for Minor: 21

Program Description

The minor in Latin American Studies (LAS) provides students with coursework that explores the historical, social, cultural, political, and transnational/transoceanic conditions of Latin American societies as well as the ways in which these factors have shaped historical and contemporary Latino/a/x identities. The curriculum includes courses from a variety of disciplinary perspectives and allows students to specialize in particular topical and/or thematic areas of interest.

Program Requirements

Code	Title	Units
Required Upper Division Courses (6 Units)		
HIST 138A	Colonial Latin America	3
HIST 138B	Modern and Contemporary Latin America	3
Elective Courses (15 Units) [1,2]		
Arts & Literature		
Select two of the following:		6
ART 111	Latin American and Latino Art History	
HIST 137B	Latin American History in Film	
MUSC 119C	World Music: Latin America	
SPAN 100	Introduction to the Study of Hispanic Literature	
SPAN 113	Latin American Literature, Beginnings to Modernism	
SPAN 114	Latin American Literature, Modernism to Present	
SPAN 134	The Short Story in Latin America	
SPAN 153	Civilization and Culture of Mexico	
Society		
Select three of the following:		9
ANTH 121	Archaeology of Mexico	
ANTH 122	The Evolution of Early Mesoamerican States	
ANTH 143	Culture and Society in Mexico	
ANTH 145	Peoples and Cultures of Latin America	
ETHN 30	Introduction to Chicano/Latino Studies	
ETHN 131	La Raza Studies	
ETHN 132	La Mujer Chicana	
ETHN 136	US Mexican Border Relations	
ETHN 137	Race and Ethnicity in Latin America and Caribbean	
ETHN 141	Politics of the African Diaspora	
POLS 141	Politics of the African Diaspora	
POLS 147	Latin American Government and Politics	
HIST 135A	History Of Mexico To 1910	
HIST 135B	Revolutionary and Modern Mexico	
HIST 137A	Latin American Revolutions in the Twentieth Century	
HIST 178	Mexican-American History	
HIST 181	Anarchists and Revolutionaries: Transnational Radicalism in America	
HIST 192F	Seminar in Recent Interpretations of Latin American History	
SOC 118	Chicano Community	
SOC 122	Immigration Studies	
SOC 164	Sociology of Globalization	
SPAN 151	Civilization and Culture of Hispanic America	

SPAN 152	Civilization and Culture of Spain	
Total Units		21

[1] Students must take at least one course from three difference disciplines.

[2] No more than four courses from any one discipline count for the LAS minor.

Ph.D. in Public History

Program Description

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

Questions about the program should be directed to Sacramento State Professor Anne Lindsay (anne.lindsay@csus.edu) and UCSB Professor Randy Bergstrom (bergstro@history.ucsb.edu).

Admissions Requirements

Prospective applicants for the joint Ph.D. program should have completed a Master's degree in history, public history, or a related field (in unusual circumstances, highly qualified candidates can be admitted without the MA).

Applicants should provide the following information to the Graduate Program in Public History at UCSB: the appropriate application forms; transcripts of completed academic work; GRE scores; three letters of recommendation; and an essay explaining the applicant's reasons for seeking a Ph.D.

Admissions Procedures

The Joint Public History Committee will review applications for admission and select the individuals to be admitted to the joint doctoral program.

Program Requirements

Students admitted to the program must spend at least one academic year in residence on each of the two campuses.

In addition to the required research seminars and professional coursework, students will complete an internship assignment and report.

To complete the doctoral program, students must pass a combination of written and oral examinations in four fields. These fields are typically: a general field (usually U.S. History); a specialized field within the general field; a third field encompassing the dissertation topic; a cognate field outside the department (e.g., art history, anthropology, political science).

In addition, each student will: pass one foreign language examination; complete a dissertation; and serve as a research or teaching assistant.

Subject Matter Program (History)

Units required for Major: 72
Total units required for BA: 120

Program Description

The History BA with Social Science Subject Matter Competency is for history majors interested in a career as a middle- or high-school teacher. The program addresses the needs of future teachers for essential content knowledge and academic skills preparation in the subjects covered by the Single Subject Credential in Social Science: U.S. and World History, Economics, Geography, and Political Science.

Many of the course requirements of the program meet GE and/or Graduation Requirements. Students are strongly encouraged to meet regularly with a major advisor every semester to select courses and prepare for the credential program.

Preparation for Credential Program
The History BA with Social Science Subject Matter Competency is a California state-approve subject matter program. Students who successfully complete the program satisfy the requirement of the Commission on Teacher Credentialing for demonstrated competence in Social Science. Graduates of the program are exempt from the CSET exams in Social Science.

Early field experience: Students are strongly encouraged to seek opportunities to gain experience in classroom settings or with youth in organized activities.

Sacramento State's Single Subject Teaching Credentials Program (https://catalog.csus.edu/colleges/education/teaching-credentials/single-subject-teaching-credential/) requires a minimum of 45 hours (100 preferred) of experience working with middle- to high-school aged youth during the two year prior to apply to the credential program.

Program Requirements

Code	Title	Units
History Requirements (39 Units) [1]		
Lower Division Required Courses		
HIST 17A	United States History, 1607-1877	3
HIST 17B	United States History, 1877-Present	3
HIST 51	World History from 1500 to the Present.	3
or HIST 51H	World History II: Since 1500	
HIST 50	World Civilizations, Beginnings-1600	3
or HIST 50H	Wc	
Upper Division Required Courses		
HIST 100	Introduction to Historical Skills (Recommended for second semester of sophomore year)	3
HIST 133	Twentieth-Century World History	3
HIST 183B	California History, 1860-1970	3
Upper-Division History Elective Areas		
U.S. History		
Select one of the following:		3
HIST 154	20th Century United States, 1890-1940	
HIST 155	20th Century United States, 1941-Present	
HIST 156	The Sixties: Years of Hope, Days of Rage	
HIST 159	History of US Foreign Relations	
HIST 160	The United States in Vietnam, 1940-1975	
HIST 161	The American Vision	
HIST 162	Social History of the United States	
HIST 163	The City in US History	

HIST 164	History of American Capitalism	
HIST 165	American Environmental History	
HIST 166	Popular Culture	
HIST 169	Hollywood and America	
HIST 179	American Immigration History	
HIST 180	American Legal History	
HIST 181	Anarchists and Revolutionaries: Transnational Radicalism in America	
HIST 182	American West	
HIST 188	American Labor History	
Pre-20th Century U.S. History		
Select one of the following:		3
HIST 150	Colonial America	
HIST 151	The Age of the American Revolution	
HIST 152	Young Republic, 1790-1840	
HIST 153	Civil War and Reconstruction, 1840-1890	
HIST 171A	American Indian History to 1840	
HIST 183A	California History, 1542-1860	
World History		
Select one of the following:		3
HIST 103	Mediterranean Europe: From the Renaissance to the European Union	
HIST 105	Great Ages and Issues in Modern European History	
HIST 113	Early Medieval Europe	
HIST 115	The Renaissance and Reformation in Europe	
HIST 116	Europe, 1648-1815, The Age of Revolution	
HIST 117	Europe, 1815-1914	
HIST 118A	World War I: Causes, Conduct, Consequences	
HIST 118B	World War II: Causes, Conduct, Consequences	
HIST 119	Europe Since 1945	
HIST 120A	History of Medicine, Ancient and Medieval	
HIST 121	Democracy and Human Rights in the Era of the French Revolution and Napoleon	
HIST 123	The Crusades	
HIST 125	Modern Germany, 1806-Present	
HIST 128B	Tudor and Stuart England, 1485-1714	
HIST 128C	British History, 1714-Present	
HIST 129B	Imperial Russia	
HIST 129C	Twentieth Century Russia	
HIST 130	The Fall Of Communism	
HIST 134	The Rise and Fall of European Colonial Empires	
HIST 135A	History Of Mexico To 1910	
HIST 135B	Revolutionary and Modern Mexico	
HIST 136	Spanish Civil War	
HIST 137A	Latin American Revolutions in the Twentieth Century	
HIST 137B	Latin American History in Film	
HIST 138A	Colonial Latin America	
HIST 138B	Modern and Contemporary Latin America	
HIST 141	History of Africa Since 1800	
HIST 143A	Middle Eastern History to 1800	
HIST 143B	The Modern Middle East	
HIST 144	Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder	
HIST 145	South Asian History & Civilization	
HIST 146B	Modern Japan, 1800-present	
HIST 148B	China, 1600 to Present	
HIST 149	The Making of Modern Southeast Asia	
HIST 157	History of International Relations in the 20th Century	
History of Marginalized Groups [2]		
Select one of the following:		3
HIST 122A	History of Women in Western Civilization, Prehistory-Middle Ages	
HIST 122B	History of Women in Western Civilization, Renaissance-Present	
HIST 131	History of Sexuality in Comparative Perspective	
HIST 142	History of Women in Africa	
HIST 167	History of American Women	
HIST 171B	American Indian History since 1840	
HIST/WOMS 172	LGBTQ Histories	
HIST 173	The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present	
HIST 174A	History of Disability in the United States	
HIST 175A	Sex, Population, and Birth Control in America	
HIST 177	The African-American Experience, 1603-Present	
HIST 178	Mexican-American History	
Required Senior Seminars		
HIST 191	Seminar in Historical Interpretation and Analysis	3
HIST 198	Summative Assessment for Teachers	3
Social Science Preparation (30 Units) [1]		
Economics		
ECON 1A	Introduction to Macroeconomic Analysis	3
ECON 1B	Introduction to Microeconomic Analysis	3
Select one of the following:		*3*
ECON 101	History of Economic Thought	
ECON 113	Economic History of the United States	
ECON 114	The California Economy	
ECON 181	Economics of Racism	
ECON 184	Women and the Economy	
ECON 189	Economics at the Movies	
FACS 141	Family Finance	
Geography		
GEOG 100	Themes In World Geography	3
GEOG 121	United States and Canada	3
Political Science		
POLS 1	Essentials Of Government	3
or POLS 150	American Governments	
POLS 35	World Politics	3
POLS 180	California State and Local Government	3
Ethical Perspectives [2]		
Select one of the following:		3
HRS 4	Exploring World Religions	
HRS 155	Spirit and Nature	

PHIL 2	Ethics	
PHIL 100	Ethics and Personal Values	
PHIL 101	Ethics and Social Issues	
PHIL 102	Professional and Public Service Ethics	
PHIL 112	History Of Ethics	
PHIL 122	Political Philosophy	
PHIL 131	Philosophy Of Religion	
Pluralism in American Society [2]		
Select one of the following:		3
ANTH 101	Cultural Diversity	
EDUC 160	Urban Education	
EDUC 165	Sex Role Stereotyping in American Education	
EDUC 121	Multicultural Children's Literature	
ETHN 100	Ethnic America	
ETHN 131	La Raza Studies	
POLS 165	Politics of the Underrepresented	
SOC 118	Chicano Community	
SOC 120	Ethnic and Race Relations	
WOMS 136	Gender, Race, and Class	
Credential Preparation (3 Units) [3]		
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
Total Units		72

[1] Many required and electives courses also satisfy specific General Education (GE) and/or Graduation Requirements.

[2] With approval by a major advisor, students may opt to take additional History of Marginalized Groups courses to meet the World History or US History elective requirements.

[3] All courses in the Pluralism in American Society and Ethical Perspective elective areas meet GE and/or Graduation Requirements; all courses in the American Pluralism elective area courses meet the Race & Ethnicity Graduation Requirement

[4] EDUC 170 is a prerequisite course for the Sacramento State's Single Subject Teaching Credential program. Students planning to earn a credential from Sac State are strongly encouraged to also take the other pre-req courses EDUC 100A/EDUC 100B and PUBH 136. EDUC 170 and EDUC 100 A/B required independent field work.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (3-6 Units)		
C1 - Arts		3
C2 - Humanities [2]		0
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area D: The Individual and Society (0-3 Units)		
Area D Course [2]		0
Area D Course [2]		0
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [4]		0 - 3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		28-34

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following' option:
- Student will meet upper division Area C if take: HIST 103, HIST 105,HIST 131 HIST 116, HIST 122A, HIST 122B, HIST 131, HIST 135A, HIST 142, HIST 143A HIST 146A, HIST 148A, HIST 169/HRS 169, HRS 155, PHIL 112, PHIL 122, or PHIL 131

[4] Department offers students a 'select from the following' option:
- Student will meet upper division Area D if take one of these courses: ANTH 101, ECON 181, EDUC 121, EDUC 160, EDUC 165, EDUC 121, ETHN 100, ETHN 131, HIST 119, HIST 130, HIST 135B, HIST 136, HIST 138A, HIST 138B, HIST 141, HIST 143B, HIST 146B, HIST 148B, HIST 159, HIST 161, HIST 162, HIST 163, HIST 165/ENVS 165, HIST 167, HIST 173, HIST 174A, HIST 175A,HIST 175B, HIST 177, HIST 178, PHIL 101, POLS 165, SOC 118, SOC 120, or WOMS 136

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (0-3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI) [3]		0 - 3
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [4]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] Department offers students 'select from the following' option:
- If student chooses to take EDUC 121, EDUC 160, EDUC 165, ETHN 100, HIST 105, HIST 122A, HIST 122B, PHIL 101, PHIL 112, POLS 165, or WOMS 136 they will meet the Writing Intensive (WI) graduation requirement.

[4] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Humanities and Religious Studies

College of Arts and Letters

Program Description

The Department of Humanities and Religious Studies offers an integrated approach to the study of world cultures from ancient times to the present. In our courses, students undertake interdisciplinary study of core ideas, ideals, and values. The Humanities – known by Renaissance thinkers as *studia humanitatis* ("studies of humanity") – explore such subjects as literature, history, philosophy, religion, the visual arts, music, drama, and film. Religious Studies focuses on beliefs and practices of the world's religions in their historical and cultural contexts. Employing the methods and insights of disciplines such as history, anthropology, sociology, psychology, and philosophy, Religious Studies approaches its subject matter with empathy while avoiding assumptions or judgments about religious truth claims.

The Department offers the following degree programs:

The BA in Humanities provides a strong interdisciplinary foundation in world cultures while also allowing students the opportunity to focus their studies on a specific era – such as the ancient, medieval, or modern eras – or on culture in a particular region.

The BA in Humanities with a Concentration in Religious Studies emphasizes religion as an aspect of culture and investigates major religious traditions, including Hinduism, Sikhism, Jainism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam.

Minor programs in both Humanities and Religious Studies.

The MA in Humanities provides graduate-level engagement with humanistic approaches to world cultures.

Students in all five programs acquire concrete skills in critical thinking, analysis, research, writing, and organization that lead to attractive careers throughout the job market. Many of our students prepare for careers in teaching at the elementary level (as part of a Liberal Studies major program) or secondary level (as part of a single subject credential program in English/Humanities). Others pursue postgraduate study in the Humanities, History, Theology, and related fields in preparation for careers in teaching at the community college and university levels or in library, museum, or curatorial work. Humanities majors are also well-prepared for careers in government and fields such as law and counseling, which require interaction with people from diverse cultural backgrounds.

Degree Programs

BA in Humanities (p. 237)

BA in Humanities (Religious Studies) (p. 238)

Minor in Humanities (p. 241)

Minor in Religious Studies (p. 242)

MA in Humanities (p. 240)

Special Features

- Faculty advisors are available to help majors and minors design individual patterns of study that reflect students' particular interests and prepare them for work in their chosen fields.
- The Department fosters a sense of community among faculty and students in order to create a welcoming and congenial environment that encourages mutual respect, active learning, and the lively exchange of ideas.

Career Possibilities

Teaching · Academic Research · Publishing · Journalism · Government · Public Relations · Law · Library Science · Creative Writing · Literary Research · Theology · Ministry · Counseling

Contact Information

Bradley Nystrom, Department Chair
Victoria Shinbrot, Graduate Coordinator
Carol Downey, Administrative Support Coordinator
Mendocino Hall 2011
(916) 278-6444
Department of Humanities & Religious Studies Website (http://www.csus.edu/hum/)

Faculty

BRODD, JEFFREY

BUCKMAN, ALYSON R.

DOYNO, MARY

DUBOIS, JOEL

JAOUDI, MARIA

SHINBROT, VICTORIA

STARK, HARVEY

THOMA, JUDY

HRS 4. Exploring World Religions. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Comparative inquiry into the nature of global religions, including Hinduism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam. Experiential, social, and material aspects of religions will be considered as well as beliefs and practices.

HRS 10. Arts and Ideas of the West: Ancient to Medieval. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to the literature, art, architecture, philosophy and history of the ancient and medieval West, with emphasis on classical Greece and Rome and the European Middle Ages.

HRS 11. Arts and Ideas of the West: Renaissance to Modern. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to the literature, art, architecture, music, philosophy, and history of the West from the Renaissance to the present.

HRS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills.

HRS 60. Popular Culture: Thinking Critically About the World Around Us. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Focus on thinking critically and building arguments about popular culture in its various forms, including television, film, music, art, and literature. Enhances understanding of popular culture, including definitions of key analytical terms, sociocultural history, generic structures, and aesthetic appreciation.

HRS 70. Arts and Ideas of Asia: Ancient to Medieval. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Introduction to the cultural history of ancient and early medieval Asia incorporating examples of art, literature, philosophy, and religion, providing a survey of China, India, and several other distinct cultures of the areas surrounding them--especially Japan.

HRS 71. Arts and Ideas of Asia: Medieval to Modern. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Introduction to the cultural history of late medieval and modern Asia incorporating examples of art, literature, philosophy, and religion, providing a survey of China, India, and several other distinct cultures of the areas surrounding them--especially Japan.

HRS 80. Introduction to Film. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the aesthetics of cinema, including understanding of how lighting, editing, angles, shot length, and framing create meaning in film. Discussion of aesthetic movements such as German Expressionism, Nouvelle Vague, and auteurism.

HRS 105. Approaches to the Humanities. 3 Units
Prerequisite(s): HRS 10 and HRS 11 or instructor permission.
Term Typically Offered: Fall only

Advanced study of interdisciplinary methods applied to the arts, including literature, music and other modes of humanistic expression.

HRS 108. Approaches to Religious Studies. 3 Units
Term Typically Offered: Fall only

Exploration of the history and methodology of Religious Studies, including the analysis of several significant theories of the origin and function of religion. Methods and theories drawn from the disciplines of psychology, sociology, history, anthropology, philosophy and feminist studies.

HRS 113. The Culture of Classical Greece. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Examination of the Golden Age of Athens and the birth of Western humanism; studies in the classical ideals, tragedy, comedy, poetry, history, philosophy, art and architecture.

HRS 114. The Culture of Classical Rome. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Study of Roman culture and its influence. Emphasis on art, architecture, literature, history, philosophy and religion of Rome from the early Republic to the end of the Western Empire.

HRS 115. Material Culture of Ancient Rome. 3 Units
Term Typically Offered: Fall, Spring

A focused study of ancient Roman culture as understood through investigation of materials artifacts, especially as found in archaeological sites and museum exhibits. The majority of course time will be spent in Rome and in Pompeii and other locations near Bay of Naples. Visits to archaeological sites and museums will be supplemented by readings of relevant texts and by ongoing discussion.

HRS 117. Paganism in the Roman World. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Survey of ancient Roman paganism, the wide variety of religious beliefs, practices, and institutions found throughout the Roman world. Topics include Greek influences, traditional religion, state and ruler cults, healing cults, oracles, astrology, mystery religions, priests and priestesses, prayer, sacrifice, and religious philosophies.

HRS 119. Classical Mythology. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Study of Greek and Roman myths and hero tales and their place in the arts and literature of Western civilization. Also provides an introduction to the general nature and function of myth.

HRS 120. Reason and Revelation: The Origins of Western Culture. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Study of the conflicting cultures that have shaped the social, religious and ethical perspectives of Western Culture. Readings in the Bible, Plato, Greek drama, the New Testament, and church fathers.

HRS 121. Introduction to the Hebrew Bible/Old Testament. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Survey of the historical narratives and other literature of the Bible, analysis of archeological evidence and introduction to the basic problems of textual criticism. Topics of study will include the origins and development of early Judaism and its interaction with surrounding cultures.

HRS 122. Introduction to the New Testament. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Study of the New Testament literature in its historical and cultural setting. Topics covered include the literary relationships of the four Gospels, the historical Jesus, the evolution of early Christianity, and the diverse theologies represented in the letters of Paul and other canonical and non-canonical writings.

HRS 126. History of Christianity to the Reformation. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Christianity from Jesus to Martin Luther. Emphasis on the evolution of Christian thought and institutions and the relationship of the Church to popular culture and secular powers.
Cross Listed: HIST 126; only one may be counted for credit.

HRS 127. History of Christianity Since the Reformation. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

European Christianity from the Reformation to the present. Emphasis on the evolution of Christian thought, the co-existence of the Catholic and Protestant traditions and the relationship of religious and secular values in European society.
Cross Listed: HIST 127; only one may be counted for credit.

HRS 131. Medieval Culture. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Decline of Rome to the Renaissance. Emphasis on the cultural development of the West from the Germanic invasions until the advent of Humanism with attention to theology, art, architecture and literature to illustrate the dynamics of these diverse years.

HRS 132. Renaissance. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Spring only

Investigates the nature and implications of Renaissance Humanism in Italy (14th and 15th centuries) as well as its impact in Northern Europe in the 16th century. Includes the literary works of such writers as Petrarch, Pico, Machiavelli, Erasmus and Cervantes, along with the art of Giotto, Botticelli, Michelangelo, Brunelleschi, Cellini, Dufay, da Vinci, and the music of Palestrina.

HRS 134. Baroque and the Enlightenment. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Multi-faceted survey of the culture of Europe and North America in the Age of the Baroque and Enlightenment (1600-1792). Emphasizes literature, music, painting, architecture and ideas in France, Britain, Germany and Italy.

HRS 135. Romanticism and Revolution. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Interdisciplinary survey of the cultures of Europe and North America in the 19th century. Building on the Romantic aesthetic developed late in the 18th century. Considers the literature, music, painting and ideas of northern Europe and America until the 1900s.

HRS 136. Birth Of The Modern. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Investigation of those crises in art and society underlying the development of modernism and post-modernism.

HRS 137. Global Crossings: Art and Culture 1945 to Present. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Exploration of concepts and expressions of postmodernism and its emphasis on irony, citation, and the interconnectedness of politics, aesthetics, and philosophy across the disciplines (art, literature, architecture, film) and the continents (Europe, Asia, Africa, America and Latin America).

HRS 141. Introduction To Judaism. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Survey and analysis of the fundamental tenets of Judaism set within the context of the historical and intellectual development of the Jewish People.

HRS 142. Introduction to Christianity. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Study of the beliefs, practices, institutions and history of the Christian religion. Emphasis on the Orthodox, Roman Catholic, and Protestant traditions and the relationship of Christianity to global cultures.

HRS 144. Introduction To Islam. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Survey of the Islamic way of life: its beliefs, traditions and practices from Quranic origins and the Sunna of the Prophet Muhammad. The historical development of Islamic law, religious sects, mysticism, and intellectual thought of the global Muslim community from medieval to contemporary times.

HRS 145. Introduction to Islamic Cultures. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Survey of the expression of Islamic values in religious practice, philosophy, theology, art, architecture, music, and literature in different geographic locations and historical periods.

HRS 146. Islam in America. 3 Units
Term Typically Offered: Fall, Spring

An inquiry into the history and development of Islam in United States. Special emphasis will be placed on issues related to race, ethnicity, gender, ritual practice, and the politics of being Muslim in America.

HRS 147. History of Buddhism. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examines in cultural and historical perspective, drawing on both ancient and contemporary sources, the key practices and ideas of Buddhist traditions in India, China, Southeast Asia, Tibet, Japan, and other surrounding regions; as well as the more recent spread of these practices and ideas to Europe, North America, and Australia.
Cross listed: HIST 147

HRS 148. African Arts and Cultures. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Survey of African cultural and artistic forms which explores the intersection of culture and the humanities in different African contexts-past and present. Emphasizes the cultural diversity of the African continent, and surveys how different cultural, ethical, aesthetic, and religious values are expressed in literature, visual art, music, architecture, and ritual. Focuses primarily on sub-Saharan Africa.

HRS 151. World Mythology. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to the nature and function of myth. The specific literature studied will be exclusive of classical mythology and because of the breadth of subject matter will vary in content. The mythology of at least four cultures will be covered each term.

HRS 152. Great Mystics of the World. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examination of the meaning of mysticism as a 'direct experience of ultimate reality' in the world's religions. The history, teachings, belief systems and scriptures of Hinduism, Buddhism, Daoism, Confucianism, Judaism, Christianity and Islam will be studied to illuminate the lives and works of each religion's great mystical thinkers.

HRS 154. Food, Farming, and the Sacred. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examination of primary sources dealing with the sacred dimensions of food and farming in pre-modern and modern world cultures. Attention paid to sustainable, small-scale farming, and spiritual perspectives that promote and reinforce sustainable food practices. Interested students may receive one additional unit of credit for 20 hours of work with a local organization involved in farming and/or local food distribution through the Community Engagement Center and reflection assignments relating this work to course materials.

HRS 155. Spirit and Nature. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Comparative inquiry into the critical connection between religion and nature. Traditional views of selfhood, the sacred, morality and specific ecological issues, such as energy consumption will be examined through representative sources in world religions.

HRS 161. Multicultural America. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Topically structured, interdisciplinary introduction to the cultural experiences of historically under-represented groups. Historical and contemporary events, as well as values and beliefs in American culture, are examined through various artistic expressions, such as music, painting and literature.

HRS 162. American Space and Identity. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examination of the ways in which physical spaces within America contribute to the formation of American identities and vice versa. Interdisciplinary and topically organized, analyzes both exterior and interior spaces: city, suburb, regions, body, mind, and the borderlands, to name a few. Also studies the interaction of race, class, gender, and sexuality with space and identity.

HRS 168. Images Of America. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Interdisciplinary survey of major events, trends and figures in American history viewed through the lenses of American literature, visual arts, music and architecture. The arts in America are studied in relation to major ideas, significant personalities and important historical events from the period of the early republic to the present.
Cross Listed: HIST 168; only one may be counted for credit.

HRS 169. Hollywood and America. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Chronological survey of American films and their cultural significance from the 1890s to the present. Focus on films produced in Hollywood, the contexts in which they were created and the impact of Hollywood as a geographical and mythical place in the development of American culture.
Cross Listed: HIST 169; only one may be counted for credit.

HRS 170. The Religious Landscape of the Sacramento Valley. ✎ 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Introduction to the field study of religious communities. Addresses the nature of religious pluralism in the U.S. today. The practice and belief systems of at least five different religious communities will be studied each semester. Students are required to do an in-depth term project based on research in one or more religious communities
Cross Listed: ANTH 170; only one may be counted for credit.

HRS 171. Introduction to the East Asian World. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Comparative study of the cultural heritages of China and Japan through literature, art, religion, philosophy and history. East Asian modes of thinking and humanistic expressions will be identified and contrasted with those of the West.

HRS 172. The Classical Culture of China. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to classical Chinese culture through a survey of history, philosophy, religion, literature and art. The course identifies the uniqueness of Chinese culture as well as the common concerns it shares with other high cultures.

HRS 173. Chinese Philosophy and Religion. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Study of Chinese philosophic and religious ideas through representative works in English. The traditional Chinese views on human nature, society, politics, morality, and spirituality are examined. The Chinese transformation of Buddhism will also be discussed. The inner dynamics of traditional Chinese thought and its contemporary implications are explored.

HRS 174. Modern Japanese Literature and Culture. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Study of representative Japanese literature (in English translation) from the late Tokugawa through the modern period. Traditional Japanese values will be identified and Japan's journey toward modernity examined. Both the uniqueness of Japanese culture and common concerns among cultures will be explored.

HRS 175. Zen Buddhism and Daoism. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Mystical nature of Daoist and Zen teachings will be emphasized. The organic linkage between Daoism in China and Buddhism in India will be explored. The emergence of Zen as a quintessential representative of East Asian cultural and aesthetic values will be discussed.

HRS 176. The Confucian Tradition. 3 Units
Term Typically Offered: Fall, Spring

Study of the Confucian tradition as it unfolded in China and influenced China's East Asian Neighbors. Philosophical and religious dimensions, as well as the evolution and transformation of this uniquely Chinese tradition over time, will be studied. The Confucian influence on Chinese culture, philosophy, religion, literature, political structure and social organization will be identified and analyzed.

HRS 178. Religions of India. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

An introduction to the bewildering diversity of Indian religions, relating religious practices & ideas to broader cultural developments, including visual arts and literature. Focuses on the way Hindu, Buddhist, Jain and Sikh traditions address the concept of karma in distinctive ways, paying special attention to the way words and intentions are said to influence the consequences of a person's deeds.

HRS 178A. Religions of India I: The Formative Period. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to religious life on the Indian subcontinent during its ancient period, relating religious practices and ideas to broader cultural developments, including visual arts and literature.

HRS 178B. India's Religions: Jains & Sikhs. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only – odd years

Introduction to India's stunningly diverse religious landscape, exploring perspectives and practices in the development of the lesser known but widely influential Jain and Sikh traditions that lend special insight into India¿s modern cultural practice and worldview. Focuses on Jain and Sikh notions of heroism and non-violence, paying special attention to the ideals of iconoclasm, religious pluralism and devotion.

HRS 179A. The Hindu Year: Fall. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A survey of Hindu religious teachings, stories, and history, as expressed through the holy days and festivals celebrated each fall by Hindus throughout India and abroad, during which ideas, stories, and values are transmitted from one generation to the next. Examines the little understood and rarely discussed historical development behind each celebration, based on both ancient and contemporary sources, thereby reveling why Hindu ideas and history have remained compelling to Hindus for thousands of years.

HRS 179B. The Hindu Year: Spring. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A Survey of Hindu religious teachings, stories, and history, as expressed through the holy days and festivals celebrated each spring and summer by Hindus throughout India and abroad, during which ideas, stories, and values are transmitted from one generation to the next. Examines the little understood and rarely discussed historical development behind each celebration, based on both ancient and contemporary sources, thereby revealing why Hindu ideas and history have remained compelling to Hindus for thousands of years.

HRS 180. The Film. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Introduction to the aesthetics of cinema with special attention to the evolution of critical theories of cinema within the framework of twentieth century arts and ideas.

HRS 181. Contemporary Issues in Film. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examination of contemporary film and film criticism from an interdisciplinary perspective, stressing the links between film, literature, the visual arts and society.

HRS 183. World Religions and Cultures in Cinema. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Summer only

Examination of the religious and spiritual dimensions of selected films from around the world. The cinematic arts are examined in relationship to religious and spiritual concerns, concepts, and values.

HRS 185. Women in Film and American Culture. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Study of major social issues confronting American women, examined through their images in film and other visual and literary arts.

HRS 188. Fantasy and Romance. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Exploration of the aesthetic of fantasy. Approaches may include emphasis on the historical development of the quest-romance or the use of the fantastic as social commentary. Particular genres, such as science fiction, may be explored.

HRS 190B. Seminar in HRS: The Body. 3 Units
Prerequisite(s): Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS major or minors only.
Term Typically Offered: Fall, Spring

Seminar for Humanities and Religious Studies majors. Examines cultural constructions of the body through analysis of art and literature and through the insights of media studies, cultural studies, sociological, psychology, and anthropology.
Cross listed: HRS 290B

HRS 190C. Seminar in HRS: Many Realities of Consciousnes. 3 Units
Prerequisite(s): Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS major or minors only
Term Typically Offered: Fall, Spring

Seminar for Humanities and Religious Studies majors. Examines philosophies and theories of perception as applied to cultures, religious traditions, nature, film and literature. Investigates consciousness through examination of the subjectivity of human perception.
Cross listed: HRS 290C

HRS 190D. Seminar in HRS: Death and Afterlife. 3 Units
Prerequisite(s): Must be HRS major or minor; Completion of 9 units of HRS lower division courses; Completion of the GWAR.
Term Typically Offered: Fall, Spring

Seminar for Humanities and Religious Studies majors. Examines myths, theories, and perceptions of death and afterlife in cross-cultural and historical perspective through analysis of literature, the visual arts, and music.
Cross listed: HRS 290D

HRS 190H. Seminar in HRS: The Hero. 3 Units
Prerequisite(s): Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS major or minors only
Term Typically Offered: Fall, Spring

Seminar for Humanities and Religious Studies. Examines the hero in cross-cultural and historical perspective through analysis of visual artifacts, literature, history, philosophy, music and film.
Cross listed: HRS 290H

HRS 190M. Saints, Relics, and Miracles in Late Antique and Medieval Europe. 3 Units
Prerequisite(s): Student must complete 9 units of lower division core courses and be eligible for WI classes based on WPJ placement score or passage of the appropriate prerequisite
Term Typically Offered: Fall, Spring

Seminar in Humanities and Religious Studies majors. Examines the role of the body in the creation of saints' cults in medieval Europe through analysis of literature and art. Considers how the idea of martyrdom set the terms for an ideal Christian life and explores the role relics, pilgrimage and miracle stories played in medieval society.
Cross Listed: HRS 290M

HRS 195. Seminar in Humanities. 3 Units
Prerequisite(s): Completion of 12 units of HRS lower division core courses, HRS 105, senior status; or instructor permission.
Term Typically Offered: Spring only

Senior seminar for Humanities and Religious Studies majors with Humanities Concentration; focuses on the perspectives and methods of the academic study of the humanities. Topics chosen by the instructor.
Note: May be repeated once for credit.

HRS 196. Experimental Offerings in Humanities and Religious Studies. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Special experimental course on specific themes, figures, or topic areas.
Note: May be taken twice for credit if topic differs.

Credit/No Credit

HRS 198. Seminar in Religious Studies. 3 Units
Prerequisite(s): Completion of 9 units of HRS lower division core courses, HRS 108, senior status; or instructor permission.
Term Typically Offered: Spring only

Senior seminar for Humanities and Religious Studies majors with Religious Studies Concentration; focuses on the perspectives and methods of the academic study of religion. Topics chosen by the instructor.
Note: May be repeated once for credit.

HRS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Tutorial-reading course involving independent research. Topic and research method to be decided upon jointly by student and instructor.
Note: May be repeated for credit.

HRS 200A. Culture and Expression: Prehistory to the Middle Ages. 3 Units
Prerequisite(s): Must be a HRS major or minor
Term Typically Offered: Fall, Spring

Interdisciplinary seminar on cultural movements, figures, and art forms of eras from prehistory to the Europen Middle Ages. Focus on the West with some global comparison. Emphasis on theoretical perspectives, methods, and research techniques germane to the humanaties.

HRS 200B. Culture and Expression: Renaissance to the Present. 3 Units
Prerequisite(s): Must be a HRS major or minor
Term Typically Offered: Fall, Spring

Interdisciplinary seminar on cultural movements, figures and art forms of eras from the Renaissance to the present. Focus on the West with some global comparison. Emphasis on theoretical perspectives, methods and research techniques germane to the liberal arts.

HRS 202. Western Aesthetics: Traditions and Revision. 3 Units
Prerequisite(s): Graduate standing.
Term Typically Offered: Fall, Spring

Introduction to critical methodologies in the Humanities and to techniques of formal analysis as applied to specific eras and artworks in Western cultural history.

HRS 205. Space and Time. 3 Units
Prerequisite(s): 6 units in philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to significant philosophical issues involving space and time. An investigation into the current state of these issues.
Note: No background or work in mathematics or physics is required.
Cross-listed: PHIL 192D; only one may be counted for credit.

HRS 209. Versions of the Self in Western Literature and the Arts. 3 Units
Term Typically Offered: Fall, Spring

Traces the stages through which the concept of the 'self' emerges in Western literature, philosophy and the arts, from Antiquity to the 20th Century. Focus is on the transformation of moral identity as the West moves from a divinely ordered cosmos to a relativized universe.

HRS 210. Gender and Religion in Cross-Cultural Perspective. 3 Units
Term Typically Offered: Fall, Spring

Exploration of the relationships and roles of women and men in the context of religious life. May focus extensively on one or more particular religious traditions cross-culturally, or draw on a wider spectrum of examples. Special attention paid to the complementary nature of men's and women's roles in many religious traditions; and also the way that male perspectives have dominated many areas of formal religious discourse, noting the dissenting voices of women often hidden in more informal types of expression.
Cross Listed: LIBA 210; only one may be counted for credit.

HRS 213. Ancient Greek Culture. 3 Units
Term Typically Offered: Fall, Spring

A graduate-level survey of ancient Greek culture. Emphasis on social and private life, religion, historiography, literature, philosophy, drama, art, and architecture.

HRS 214. Ancient Roman Culture. 3 Units
Term Typically Offered: Fall, Spring

A graduate-level survey of Roman culture. Emphasis on social and private life, religion, historiography, literature, philosophy, drama, art, and architecture.

HRS 216. Historical Reflections on the American Dream. 3 Units
Term Typically Offered: Fall, Spring

Multicultural exploration of how our nation's history has been constructed, experienced, told and valued from varying ethno-cultural points of view, including each student's personal history.

HRS 217. Ordinary America. 3 Units
Term Typically Offered: Fall, Spring

Inquiry into the issues, theories, and methods associated with popular and material culture studies in order to provide students with insights into the past and present nature of American experience. Intended to be an exploration of the ways in which popular and material culture both reflect and contribute to the search for meaning in everyday life.

HRS 220. Seminar in Religious Studies. 3 Units
Term Typically Offered: Fall, Spring

Designed to offer a variety of topics in the study of religion. Seminar presents a rotating series of subjects ranging from ancient religious literature to contemporary religious problems.

HRS 222. Evolving Concepts of God: Portrait of Deity in Monotheistic Religions. 3 Units
Term Typically Offered: Fall, Spring

Seminar traces the historical origin and cultural evolution of the God concept in monotheistic religions. Topics include the archaeological record of humanity's earliest religious artifacts, evidence for the prehistoric worship of the 'Great Goddess' figure, an examination of the polytheistic religions of the ancient Near East and their influence on the development of monotheism. Analyzes the evolving portrait of the Deity in the Hebrew Bible (Old Testament), the New Testament, and the Koran.

HRS 224. Religions of the Roman Empire. 3 Units
Term Typically Offered: Fall, Spring

Survey of the major religious beliefs and practices in the Greco-Roman world from 100B.C.E. -- 400C.E. Topics include traditional Greek and Roman religions, healing cults, philosophical religion and Gnosticism.

HRS 226. Wisdom and Apocalyptic Literature. 3 Units
Prerequisite(s): LIBA 200A or graduate status in History or instructor permission.
Term Typically Offered: Fall, Spring

Examines two of the more creative literary genres that make up the canonical and deuterocanonical literature of the Jewish and Christian bibles. Both the historical and theological underpinnings of wisdom and apocalyptic writing will be explored in-depth, with some consideration given to literary analogues in Egyptian, Mesopotamian and Greek culture. Significant research into wisdom and apocalyptic writings outside of the testamental framework required.
Cross Listed: LIBA 226; only one may be counted for credit.

HRS 228. Early Christian Literature. 3 Units
Term Typically Offered: Fall, Spring

Survey of the major genres of Christian literature in the first three centuries CE and their relationship to the development of Christian thought and institutions. Topics include the New Testament; Jewish-Christian literature; Gnostic Christian literature; apocryphal gospels, acts, epistles, and apocalypses; polemical literature; lives of saints; and canons and creeds produced by early church councils.

HRS 234. The Gothic Spirit. 3 Units
Term Typically Offered: Fall, Spring

Arts and ideas of the twelfth and thirteenth centuries in Western Europe, structured according to the principle of the 'reconciliation of opposites.' The Gothic period sees such opposites as faith and reason, vertical and horizontal (in architecture), counterpoint brought into harmony (in music). The period culminates in Dante's masterpiece, the Divine Comedy, which exhibits the reconciliation of opposites in such sets as female/male, faith/reason, human/divine, beauty/horror, and chaos/harmony.

HRS 235. Transcendence & Transgression in the Romantic Period. 3 Units
Term Typically Offered: Fall, Spring

Interdisciplinary study of Romanticism and other literary, philosophical, and artistic movements of the 18th and 19th centuries. Topics will vary from term to term.

HRS 236. Modernism: Contingent Realities of Self and World. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Spring

Interdisciplinary studies in the arts of the modern era.

HRS 237. Global Citizenship and Culture. 3 Units
Term Typically Offered: Fall, Spring

This seminar is an exploration of how 'the global' is conceptualized in an age with competing notions of the individual and the community. Special emphasis will be placed on race, class, ethnicity & gender to elucidate the many paths that thought, language, and identity take when traversing borders.

HRS 290B. Seminar in HRS: The Body. 3 Units
Prerequisite(s): Must be an HRS major or minor; Completion of 9 units of HRS lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite
Term Typically Offered: Fall, Spring

Seminar for graduate students studying in the Department of Humanities and Religious Studies. Examines cultural constructions of the body through analysis of art and literature and through the insights of media studies, cultural studies, sociology, psychology, and anthropology.
Cross listed: HRS 190B

HRS 290C. Seminar in HRS: The Many Realities of Consciousness. 3 Units
Prerequisite(s): Must be an HRS major or minor; Completion of 9 units of HRS lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite
Term Typically Offered: Fall, Spring

Seminar for graduate students studying in the Department of Humanities and Religious Studies. Examines philosophies and theories of perception as applied to cultures, religious traditions, nature, film and literature. Investigates consciousness through examination of the subjectivity of human perception.
Cross listed: HRS 190C

HRS 290D. Seminar in HRS: Death & Afterlife. 3 Units
Prerequisite(s): Must be HRS major or minor; Completion of 9 units of HRS lower division courses; Completion of the WPJ.
Term Typically Offered: Fall, Spring

Seminar for graduate students studying in the Department of Humanities and Religious Studies. Examines myths, theories, and perceptions of death and afterlife in cross-cultural and historical perspective through analysis of literature, the visual arts, and music.
Cross listed: HRS 190D

HRS 290H. Seminar in HRS: The Hero. 3 Units
Prerequisite(s): Completion of 9 units of HRS lower division core courses and eligibility for WI classes based on the WPJ placement score or passage of the appropriate prerequisite
Term Typically Offered: Fall, Spring

Seminar for graduate students studying in the Department of Humanities and Religious Studies. Examines the hero in cross-cultural and historical perspective through analysis of visual artifacts, literature, history, philosophy, music and film.
Cross listed: HRS 190H

HRS 290M. Saints, Relics, and Miracles in Late Antique and Medieval Europe. 3 Units
Prerequisite(s): Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS majors or minors only.
Seminar for graduate students in Department of Humanities and Religious Studies. Examines the role of the body in the creation of saints' cults in medieval Europe through analysis of literature and art. Considers how the idea of martyrdom set the terms for an ideal Christian life and explores the role relics, pilgrimage and miracle stories played in medieval society.
Cross Listed: HRS 190M

HRS 296. Experimental Offerings in Humanities & Religious Studies. 3 Units

Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Special graduate-level experimental course on specific themes, figures or topic areas. Scheduled as needed.
Note: May be taken twice for credit if topic differs.

HRS 299. Special Problems. 1 - 3 Units

Prerequisite(s): Approval of the faculty member under whom the work is to be conducted and of the department's Graduate Advisor.
Term Typically Offered: Fall, Spring

Graduate level tutorial-reading course involving independent research. Topic and research method to be decided upon jointly by student and instructor.

HRS 500. Culminating Experience. 3 Units

Prerequisite(s): Advanced to candidacy and permission of the Graduate Coordinator.
Term Typically Offered: Fall, Spring

Completion of a thesis or comprehensive examination.

BA in Humanities

Units required for Major: 39
Total units required for BA: 120

Program Description

The Department of Humanities and Religious Studies offers an integrated approach to the study of world cultures from ancient times to the present. In our courses, students undertake interdisciplinary study of core ideas, ideals, and values. The Humanities – known by Renaissance thinkers as *studia humanitatis* ("studies of humanity") -- explore such subjects as literature, history, philosophy, religion, the visual arts, music, drama, and film. Religious Studies focuses on beliefs and practices of the world's religions in their historical and cultural contexts. Employing the methods and insights of disciplines such as history, anthropology, sociology, psychology, and philosophy, Religious Studies approaches its subject matter with empathy while avoiding assumptions or judgments about religious truth claims.

The BA in Humanities provides a strong interdisciplinary foundation in world cultures while also allowing students the opportunity to focus their studies on a specific era – such as the ancient, medieval, or modern eras – or on culture in a particular region.

Students in all five available programs acquire concrete skills in critical thinking, analysis, research, writing, and organization that lead to attractive careers throughout the job market. Many of our students prepare for careers in teaching at the elementary level (as part of a Liberal Studies major program) or secondary level (as part of a single subject credential program in English/Humanities). Others pursue postgraduate study in the Humanities, History, Theology, and related fields in preparation for careers in teaching at the community college and university levels or in library, museum, or curatorial work. Humanities majors are also well-prepared for careers in government and fields such as law and counseling, which require interaction with people from diverse cultural backgrounds.

Program Requirements

Code	Title	Units
Required Lower Division Courses (12 Units)		
HRS 10	Arts and Ideas of the West: Ancient to Medieval [1]	3
HRS 11	Arts and Ideas of the West: Renaissance to Modern [1]	3
HRS 70	Arts and Ideas of Asia: Ancient to Medieval [1]	3
HRS 71	Arts and Ideas of Asia: Medieval to Modern [1]	3
Required Upper Division Courses (9 Units)		
HRS 105	Approaches to the Humanities	3
One course in the HRS 190 Seminar in Humanities and Religious Studies series		3
HRS 195	Seminar in Humanities	3
Required Areas of Study (9 Units)		
Select at least one from each of the categories A, B, and C:		9 - 18
A. Ancient - Renaissance		
HRS 113	The Culture of Classical Greece [1]	
HRS 114	The Culture of Classical Rome [1]	
HRS 131	Medieval Culture [1]	
HRS 132	Renaissance [1]	
B. Enlightenment - Postmodern		
HRS 134	Baroque and the Enlightenment [1]	
HRS 135	Romanticism and Revolution [1]	
HRS 136	Birth Of The Modern [1]	
HRS 137	Global Crossings: Art and Culture 1945 to Present [1]	
HRS/HIST 168	Images Of America [1]	
C. Global/Non - Western		
HRS 145	Introduction to Islamic Cultures [1]	
HRS 171	Introduction to the East Asian World [1]	
HRS 172	The Classical Culture of China [1]	
HRS 174	Modern Japanese Literature and Culture [1]	
Supporting Courses (9 Units)		
Select up to three of the following with approval of HRS faculty advisor:		0 - 9
HRS 108	Approaches to Religious Studies	
HRS 119	Classical Mythology [1]	
HRS 151	World Mythology [1]	
HRS 161	Multicultural America [1]	
HRS 162	American Space and Identity [1]	
HRS/HIST 169	Hollywood and America [1]	
HRS 180	The Film [1]	
HRS 181	Contemporary Issues in Film [1]	
HRS 185	Women in Film and American Culture [1]	
HRS 188	Fantasy and Romance [1]	
HRS 196	Experimental Offerings in Humanities and Religious Studies	
HRS 199	Special Problems	
Total Units		39

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Note: With approval of HRS faculty advisor, a student may select up to **two** courses from the following departments: Art, English, Foreign Languages, History, Philosophy, or Theatre and Dance.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (3 Units)		
C1 - Arts		3
C2 - Humanities [2]		0
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area D: The Individual and Society (9-12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		37-40

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select form the following' option:
- If student chooses to take HRS 185, they will meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6-9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0 - 3
Graduation Requirements (required by Sacramento State) (9-12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [3]		0 - 3
Foreign Language Proficiency Requirement [4]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department offers students a 'select form the following' option:
- If student chooses to take HRS 132 or HRS 168/HIST 168, they will meet the Writing Intensive (WI) graduation requirement.

[3] Department offers students a 'select form the following' option:
- If student chooses to take HRS 161 or HRS 168/HIST 168, they will meet the Race and Ethnicity (RE) graduation requirement.

[4] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Humanities (Religious Studies)

Units required for Major: 39
Total units required for BA: 120

Program Description

The Department of Humanities and Religious Studies offers an integrated approach to the study of world cultures from ancient times to the present. In our courses, students undertake interdisciplinary study of core ideas, ideals, and values. The Humanities – known by Renaissance thinkers as *studia humanitatis* ("studies of humanity") -- explore such subjects as literature, history, philosophy, religion, the visual arts, music, drama, and film. Religious Studies focuses on beliefs and practices of the world's religions in their historical and cultural contexts. Employing the methods and insights of disciplines such as history, anthropology, sociology, psychology, and philosophy, Religious Studies approaches its subject matter with empathy while avoiding assumptions or judgments about religious truth claims.

The BA in Humanities with a Concentration in Religious Studies emphasizes religion as an aspect of culture and investigates major religious traditions, including Hinduism, Sikhism, Jainism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam.

Students in all five available programs acquire concrete skills in critical thinking, analysis, research, writing, and organization that lead to attractive careers throughout the job market. Many of our students prepare for careers in teaching at the elementary level (as part of a Liberal Studies major program) or secondary level (as part of a single

subject credential program in English/Humanities). Others pursue postgraduate study in the Humanities, History, Theology, and related fields in preparation for careers in teaching at the community college and university levels or in library, museum, or curatorial work. Humanities majors are also well-prepared for careers in government and fields such as law and counseling, which require interaction with people from diverse cultural backgrounds.

Program Requirements

Code	Title	Units
Required Lower Division Courses (12 Units)		
HRS 4	Exploring World Religions [1]	3
Select three of the following:		9
HRS 10	Arts and Ideas of the West: Ancient to Medieval [1]	
HRS 11	Arts and Ideas of the West: Renaissance to Modern [1]	
HRS 70	Arts and Ideas of Asia: Ancient to Medieval [1]	
HRS 71	Arts and Ideas of Asia: Medieval to Modern [1]	
Required Upper Division Courses (9 Units)		
HRS 108	Approaches to Religious Studies	3
One course in the HRS 190 Seminar in Humanities and Religious Studies series		3
HRS 198	Seminar in Religious Studies	3
Required Areas of Study (9-18 Units)		
Select at least three of the following, at least one from each of the categories A and B:		9 - 18
A. Religions with South and East Asian Origins		
HRS 147	History of Buddhism [1]	
HRS 173	Chinese Philosophy and Religion [1]	
HRS 175	Zen Buddhism and Daoism [1]	
HRS 176	The Confucian Tradition	
HRS 178A	Religions of India I: The Formative Period [1]	
HRS 179A	The Hindu Year: Fall [1]	
HRS 179B	The Hindu Year: Spring [1]	
B. Religions with West Asian Origins		
HRS 117	Paganism in the Roman World [1]	
HRS 121	Introduction to the Hebrew Bible/Old Testament [1]	
HRS 122	Introduction to the New Testament [1]	
HRS/HIST 126	History of Christianity to the Reformation [1]	
HRS/HIST 127	History of Christianity Since the Reformation [1]	
HRS 141	Introduction To Judaism [1]	
HRS 142	Introduction to Christianity [1]	
HRS 144	Introduction To Islam [1]	
Supporting Courses (0-9 Units)		
Select up to three of the following:		0 - 9
HRS 105	Approaches to the Humanities	
HRS 119	Classical Mythology [1]	
HRS 145	Introduction to Islamic Cultures [1]	
HRS 151	World Mythology [1]	
HRS 152	Great Mystics of the World [1]	
HRS 154	Food, Farming, and the Sacred [1]	
HRS 155	Spirit and Nature [1]	
HRS 183	World Religions and Cultures in Cinema [1]	
HRS 196	Experimental Offerings in Humanities and Religious Studies	
HRS 199	Special Problems	
With approval of HRS faculty advisor, advisor approval, a student may select up to two of the following:		
ANTH 13	Magic, Witchcraft and Religion	
ANTH 166	Rise of Religious Cults [1]	
COMS 165	Communication and Religion	
ETHN 50	Native American Religion and Philosophy	
ETHN 171	African Religions and Philosophies [1]	
HIST 170	[1]	
PHIL 131	Philosophy Of Religion [1]	
SOC 171	Sociology of Religion	
WOMS 145	Feminism and the Spirit [1]	
Total Units		30-48

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Note: With approval of HRS faculty advisor, foreign language study may be applied as elective units. The advisor and student together will determine if the language is appropriate to the student's area of interest in Religious Studies. Students should consult with an advisor before choosing any electives.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (3 Units)		
C1 - Arts		3
C2 - Humanities [2]		0
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		40

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

MA in Humanities

Total units required for the MA: 30

Program Description

The Department of Humanities and Religious Studies offers an integrated approach to the study of world cultures from ancient times to the present. In our courses, students undertake interdisciplinary study of core ideas, ideals, and values. The Humanities – known by Renaissance thinkers as *studia humanitatis* ("studies of humanity") -- explore such subjects as literature, history, philosophy, religion, the visual arts, music, drama, and film. Religious Studies focuses on beliefs and practices of the world's religions in their historical and cultural contexts. Employing the methods and insights of disciplines such as history, anthropology, sociology, psychology, and philosophy, Religious Studies approaches its subject matter with empathy while avoiding assumptions or judgments about religious truth claims.

The MA in Humanities provides graduate-level engagement with humanistic approaches to world cultures.

Students in all five available programs acquire concrete skills in critical thinking, analysis, research, writing, and organization that lead to attractive careers throughout the job market. Many of our students prepare for careers in teaching at the elementary level (as part of a Liberal Studies major program) or secondary level (as part of a single subject credential program in English/Humanities). Others pursue postgraduate study in the Humanities, History, Theology, and related fields in preparation for careers in teaching at the community college and university levels or in library, museum, or curatorial work. Humanities majors are also well-prepared for careers in government and fields such as law and counseling, which require interaction with people from diverse cultural backgrounds.

Admission Requirements

Admission as a classified graduate student in Humanities requires:

- a baccalaureate degree from an accredited four-year college or university (or equivalent preparation if the student has done undergraduate work outside the U.S.);
- an undergraduate major in Humanities or in a closely related field (subject to approval by the Graduate Coordinator);
- a minimum 3.0 GPA in the last 60 semester units attempted and a minimum 3.3 GPA in Humanities courses (or in major in a related field);

Students with deficiencies in Admission Requirements that can be removed by specified additional preparation may be considered for admission with conditionally classified graduate status. Any deficiencies will be noted on a response to the admission application.

Admission Procedures

Applicants should file two applications: one to the California State University, Sacramento Office of Graduate Studies for admission to the University, and the other to the Department of Humanities and Religious Studies for classified status in the Humanities master's program. Please check with the Office of Graduate Studies for current application deadlines.

All applicants must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470, www.csus.edu/grad studies (http://www.csus.edu/gradstudies/):

- an online application for admission; and
- two sets of official transcripts from all colleges and universities attended, other than California State University, Sacramento

Applicants must also file the following with Department of Humanities and Religious Studies:

- statement of purpose of approximately 500 words (typed) in response to the following question: How does the Humanities master's program fit with your talents, interests, and aspirations?
- two letters of recommendation. Letters should ideally come from college/university instructors, but if these are not available, any other credible source who can address qualifications will be acceptable (e.g., work supervisor or community leader);
- academic writing sample of 3-5 pages, to be accompanied by a brief explanation regarding the context (e.g., the course and assignment) for which the writing was produced.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30
Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This should be initiated by the student as soon as the student has:

- removed any deficiencies in Admission Requirements;
- completed at least 12 units of 200-level courses in the graduate program with a minimum 3.0 GPA;
- achieved a passing grade on the Humanities M.A. Preliminary Exam; and
- received a placement Score Number of 80 on the Writing Placement for Graduate Students (WPG) timed essay exam or received a grade of 'B' or better in a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of course work at California State University, Sacramento or met one of the graduate GWAR equivalency standards.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with his/her HRS advisor. The completed form is then returned to the Graduate Coordinator and the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Courses (9 Units)		
HRS 200A	Culture and Expression: Prehistory to the Middle Ages	3
HRS 200B	Culture and Expression: Renaissance to the Present ✎	3
HRS 202	Western Aesthetics: Traditions and Revision	3
Electives (18 Units)		
Select 18 units from the following: [1]		18
A. Ancient Humanities		
HRS 213	Ancient Greek Culture	
HRS 214	Ancient Roman Culture	
HRS 222	Evolving Concepts of God: Portrait of Deity in Monotheistic Religions	
HRS 224	Religions of the Roman Empire	
HRS 228	Early Christian Literature	
HRS 234	The Gothic Spirit	
B. Modern Humanities		
HRS 205/ PHIL 192D	Space and Time	
HRS 209	Versions of the Self in Western Literature and the Arts	
HRS 216	Historical Reflections on the American Dream	
HRS 217	Ordinary America	
HRS 235	Transcendence & Transgression in the Romantic Period	
HRS 236	Modernism: Contingent Realities of Self and World	
HRS 290B	Seminar in HRS: The Body	
HRS 290H	Seminar in HRS: The Hero	
C. Global Humanities		
HRS 210	Gender and Religion in Cross-Cultural Perspective	
HRS 220	Seminar in Religious Studies	
HRS 237	Global Citizenship and Culture	
HRS 290C/190C	Seminar in HRS: The Many Realities of Consciousness	
HRS 290D/190D	Seminar in HRS: Death & Afterlife	
Culminating Requirement (3 Units)		
HRS 500	Culminating Experience	3
Total Units		30

[1] Choose two areas from the three (A. Ancient Humanities; B. Modern Humanities; C. Global Humanities). Students must complete 9 units in each of the two selected areas **(18 units total)**. Six of the 18 units may consist of HRS 100-level courses with the approval of the Graduate Coordinator, AND 3 of the 18 units may consist of HRS 299 with approval of the Graduate Coordinator.

Minor in Humanities

Units required for Minor: 21

Program Description

The Department of Humanities and Religious Studies offers an integrated approach to the study of world cultures from ancient times to the present. In our courses, students undertake interdisciplinary study of core ideas, ideals, and values. The Humanities – known by Renaissance thinkers as *studia humanitatis* ("studies of humanity") -- explore such subjects as literature, history, philosophy, religion, the visual arts, music, drama, and film. Religious Studies focuses on beliefs and practices of the world's religions in their historical and cultural contexts. Employing the methods and insights of disciplines such as history, anthropology, sociology, psychology, and philosophy, Religious Studies approaches its subject matter with empathy while avoiding assumptions or judgments about religious truth claims.

Students in all five available programs acquire concrete skills in critical thinking, analysis, research, writing, and organization that lead to attractive careers throughout the job market. Many of our students prepare for careers in teaching at the elementary level (as part of a Liberal Studies major program) or secondary level (as part of a single subject credential program in English/Humanities). Others pursue postgraduate study in the Humanities, History, Theology, and related fields in preparation for careers in teaching at the community college and university levels or in library, museum, or curatorial work. Humanities majors are also well-prepared for careers in government and fields such as law and counseling, which require interaction with people from diverse cultural backgrounds.

Program Requirements

Code	Title	Units
Required Lower Division Courses (6 Units)		
HRS 10	Arts and Ideas of the West: Ancient to Medieval	3
or HRS 11	Arts and Ideas of the West: Renaissance to Modern	
HRS 70	Arts and Ideas of Asia: Ancient to Medieval	3
or HRS 71	Arts and Ideas of Asia: Medieval to Modern	
Required Upper Division Course (3 Units)		
HRS 105	Approaches to the Humanities	3
Required Areas of Study (9-12 Units)		

Select at least one from each of the categories A, B, and C:		9 - 12
A. Ancient - Renaissance		
HRS 113	The Culture of Classical Greece	
HRS 114	The Culture of Classical Rome	
HRS 131	Medieval Culture	
HRS 132	Renaissance	
B. Enlightenment - Postmodern		
HRS 134	Baroque and the Enlightenment	
HRS 135	Romanticism and Revolution	
HRS 136	Birth Of The Modern	
HRS 137	Global Crossings: Art and Culture 1945 to Present	
HRS/HIST 168	Images Of America	
C. Global/Non - Western		
HRS 145	Introduction to Islamic Cultures	
HRS 171	Introduction to the East Asian World	
HRS 172	The Classical Culture of China	
HRS 174	Modern Japanese Literature and Culture	
Supporting Courses (0-3 Units)		
Select one from the following with approval of HRS faculty advisor:		0 - 3
HRS 119	Classical Mythology	
HRS 151	World Mythology	
HRS 161	Multicultural America	
HRS 162	American Space and Identity	
HRS/HIST 169	Hollywood and America	
HRS 180	The Film	
HRS 181	Contemporary Issues in Film	
HRS 185	Women in Film and American Culture	
HRS 188	Fantasy and Romance	
One course in the HRS 190 Seminar in Humanities and Religious Studies series		
HRS 195	Seminar in Humanities	
HRS 196	Experimental Offerings in Humanities and Religious Studies	
HRS 199	Special Problems	
Total Units		18-24

Note: With approval of HRS faculty advisor, a student may choose **one** course from the following departments: Art, English, Foreign Languages, History, Philosophy, Theatre and Dance.

Minor in Religious Studies

Units required for Minor: 21

Program Description

The Department of Humanities and Religious Studies offers an integrated approach to the study of world cultures from ancient times to the present. In our courses, students undertake interdisciplinary study of core ideas, ideals, and values. The Humanities – known by Renaissance thinkers as *studia humanitatis* (“studies of humanity”) -- explore such subjects as literature, history, philosophy, religion, the visual arts, music, drama, and film. Religious Studies focuses on beliefs and practices of the world’s religions in their historical and cultural contexts. Employing the methods and insights of disciplines such as history, anthropology, sociology, psychology, and philosophy, Religious Studies approaches its subject matter with empathy while avoiding assumptions or judgments about religious truth claims.

Students in all five available programs acquire concrete skills in critical thinking, analysis, research, writing, and organization that lead to attractive careers throughout the job market. Many of our students prepare for careers in teaching at the elementary level (as part of a Liberal Studies major program) or secondary level (as part of a single subject credential program in English/Humanities). Others pursue postgraduate study in the Humanities, History, Theology, and related fields in preparation for careers in teaching at the community college and university levels or in library, museum, or curatorial work. Humanities majors are also well-prepared for careers in government and fields such as law and counseling, which require interaction with people from diverse cultural backgrounds.

Program Requirements

Code	Title	Units
Required Lower Division Courses (3 Units)		
HRS 4	Exploring World Religions	3
Required Upper Division Courses (3 Units)		
HRS 108	Approaches to Religious Studies	3
Required Areas of Study (6-15 Units)		
Select at least one course each from categories A and B:		6 - 15
A. Religions with South and East Asian Origins		
HRS/HIST 147	History of Buddhism	
HRS 173	Chinese Philosophy and Religion	
HRS 175	Zen Buddhism and Daoism	
HRS 176	The Confucian Tradition	
HRS 178A	Religions of India I: The Formative Period	
HRS 179A	The Hindu Year: Fall	
HRS 179B	The Hindu Year: Spring	
B. Religions with West Asian Origins		
HRS 117	Paganism in the Roman World	
HRS 121	Introduction to the Hebrew Bible/Old Testament	
HRS 122	Introduction to the New Testament	
HRS/HIST 126	History of Christianity to the Reformation	
HRS/HIST 127	History of Christianity Since the Reformation	
HRS 141	Introduction To Judaism	
HRS 142	Introduction to Christianity	
HRS 144	Introduction To Islam	
Supporting Courses (0-9 Units)		
Select up to three of the following:		0 - 9
HRS 119	Classical Mythology	
HRS 145	Introduction to Islamic Cultures	
HRS 151	World Mythology	
HRS 152	Great Mystics of the World	
HRS 154	Food, Farming, and the Sacred	
HRS 155	Spirit and Nature	
HRS 183	World Religions and Cultures in Cinema	

Select one course in the HRS 190 Seminar in Humanities and Religious Studies series	
HRS 196	Experimental Offerings in Humanities and Religious Studies
HRS 198	Seminar in Religious Studies
HRS 199	Special Problems
With approval of HRS faculty advisor, a student may select up to, two of the following:	
ANTH 13	Magic, Witchcraft and Religion
ANTH 166	Rise of Religious Cults
COMS 165	Communication and Religion
ETHN 50	Native American Religion and Philosophy
ETHN 171	African Religions and Philosophies
HIST 170	
PHIL 131	Philosophy Of Religion
SOC 171	Sociology of Religion
WOMS 145	Feminism and the Spirit
Total Units	12-30

Middle East and Islamic Studies

College of Arts and Letters

Program Description

The minor in Middle East and Islamic Studies (MEIS) emphasizes coursework in the history, politics, society, culture, and religion of the Middle East and the wider Islamic world. The curriculum for the program includes upper and lower division courses offered by the departments of History, Humanities and Religious Studies, Government, Sociology, Women's Studies, and Foreign Languages. Students wishing to minor in Middle East and Islamic Studies are required to consult with the program coordinator.

Degree Program

Minor in Middle East and Islamic Studies (p. 243)

Special Features

- The minor in Middle East and Islamic Studies is administered through the Department of History in the College of Arts and Letters.
- The program committee consists of faculty from several departments in the College of Arts and Letters and the College of Social Science and Interdisciplinary Studies.
- With the approval of the student's MEIS faculty advisor and the program coordinator students may take a maximum of three (3) units of independent study towards the electives requirement for the minor. The independent study project must consist of substantial readings and research in a project developed in consultation with the student's faculty advisor.

Contact Information

Dr. Serpil Atamaz, Coordinator
3057 Tahoe Hall
(916) 278-6008
Middle East & Islamic Studies Website (http://www.csus.edu/MEIS/)
atamaztopcu@csus.edu (jkwilson@csus.edu)

Minor in Middle East and Islamic Studies

Units required for the Minor: 18, six units maximum may be from lower division coursework

Program Description

The minor in Middle East and Islamic Studies (MEIS) emphasizes coursework in the history, politics, society, culture, and religion of the Middle East and the wider Islamic world. The curriculum for the program includes upper and lower division courses offered by the departments of History, Humanities and Religious Studies, Government, Sociology, Women's Studies, and Foreign Languages.

Note: Students wishing to minor in Middle East and Islamic Studies are required to consult with the program coordinator.

Program Requirements

Code	Title	Units
Islamic Studies Requirement (3 Units)		
Select one of the following:		3
HIST 8	History of Islamic Civilizations	
HRS 144	Introduction To Islam	
Modern Middle East Requirement (6 Units)		
Select two of the following:		6
GOVT 148		
HIST 143B	The Modern Middle East	
SOC 162	Middle Eastern Societies and Culture	
Electives (9 Units) [1]		
Select three of the following (choices must come from two or more departments):		9
ARBC 1A	Elementary Arabic	
ARBC 1B	Elementary Arabic	
ARBC 2A	Intermediate Arabic	
GOVT 137		
GOVT 148		
HIST 8	History of Islamic Civilizations	
HIST 110	The Ancient Near East: A Cultural History	
HIST 143A	Middle Eastern History to 1800	
HIST 143B	The Modern Middle East	
HRS 144	Introduction To Islam	
HRS 145	Introduction to Islamic Cultures	
HRS 152	Great Mystics of the World	
SOC 162	Middle Eastern Societies and Culture	
SOC 163	Conflict, Oil and Development in the Middle East	
SOC 199	Individual Study Projects	
WOMS 121	Women Of The Middle East	
Total Units		18

[1] Courses under the Electives requirement must be taken from two or more departments.

Note: All required courses are also listed as potential electives. Courses taken to fulfill requirements **cannot** also be taken as electives.

Music

College of Arts and Letters

Program Description

The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School's faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.

Students majoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University's program.

Degree Programs

BA in Music (p. 259)

Bachelor of Music (Instrumental) (p. 261)

Bachelor of Music (Jazz Studies) (p. 263)

Bachelor of Music (Keyboard) (p. 265)

Bachelor of Music (Music Education) (p. 267)

Bachelor of Music (Theory/Composition) (p. 269)

Bachelor of Music (Voice) (p. 271)

Minor in Music (p. 276)

Master of Music (Conducting) (p. 274)

Master of Music (Composition) (p. 273)

Master of Music (Performance) (p. 275)

The Performer's Certificate (p. 277)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Arts, Bachelor of Music, and Master of Music are also individually accredited by the National Association of Schools of Music.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

- With all of its degree programs fully accredited by the National Association of Schools of Music, the Sacramento State School of Music has developed a regional and national reputation for the high quality of its faculty and the superior achievements of its students and performing ensembles.
- Each year the School of Music presents a large number of performances to the campus and the greater Sacramento area. These include concerts by the bands, orchestra, jazz ensembles, concert choir, chorus, and opera workshop. For nearly 40 years, the Festival of New American Music has been an important part of the musical scene in the United States. Other concerts are part of the Piano Series, the New Millennium Series and the World Music Series.
- In addition, the Department has brought to the campus such notable personalities as composers George Crumb, Bernard Rands, and Philip Glass; pianists Gilbert Kalish and Jon Nakamatsu; the Juilliard Quartet; the Kronos String Quartet; The Apple Hill Chamber Players; opera star Denyce Graves; and jazz greats Bobby Hutcherson and Bob Mintzer.
- Several music faculty have written textbooks; a number of them are composers with numerous performances to their credit; others perform quite frequently.

Note: After an initial session with the School's admissions advisors, the student will be assigned to an applied instructor for future advising. The advising process is greatly enhanced by the regular weekly contact between student and instructor/advisor.

Career Possibilities

Conductor · Soloist · Composer · Private Teaching · Music Librarian · Music Therapy · Music Criticism · Music Publishing · Opera · Accompanist · Recreation Specialist · Recording Industry: Producer, Arranger, Copyist, Studio Performer · Music Education: General Music, Vocal Instruction, Instrumental Instruction, Administration, College Teaching · Church Music: Music Director, Choir Director, Organist

Contact Information

Ernie M. Hills, Director, School of Music
Karen Sorenson, Administrative Support Coordinator II
Thamsyne Brown, Administrative Support Coordinator I
Capistrano Hall 105
(916) 278-5155
School of Music Website (http://www.csus.edu/music/)

Faculty

BLUMBERG, STEPHEN

CIONCO, RICHARD M.

DILWORTH, GARY D.

FISHER, ROBIN

FRANKENBACH, CHANTAL

HILLS, III, ERNIE M.

KITKA, CLAUDIA

KRECKMAN, ANDREW

LUCHANSKY, ANDREW

METZ, SUSAN

MORSE, MATTHEW

PERKINS, SCOTT

PETERS, LORNA

PRESLER, ANNA

REDFIELD, CLAYBORN

ROACH, STEPHEN

SAVINO, RICHARD

ZUCKER, LAUREL L.

MUSC 2. Musicianship II. 2 Units
Prerequisite(s): MUSC 1
Corequisite(s): MUSC 7.
Term Typically Offered: Fall, Spring

Advanced aural skills and practical applications of the rhythmic, melodic, and harmonic materials needed to perform, teach, and compose music. Class activities will focus around the musicianship skills of rhythmic reading and dictation, melodic dictation, contrapuntal dictation, harmonic dictation, aural analysis of form, and sight singing.

MUSC 3. MIDI Sequencing and Notation. 2 Units
Term Typically Offered: Fall, Spring

Introduction to professional music software applications and MIDI hardware. Exploration of various hardware options such as keyboards, computers, synthesizers, samplers, and drum machines. Topics include basic MIDI principles, creating, performing, and printing music using computer-based sequencing and notation software.

MUSC 4. Elements Of Music. 2 Units
Term Typically Offered: Fall only

Elements of Music is designed to introduce you to some of the fundamental materials of music and musicianship with the goal of attaining basic musical literacy. The course focuses on the understanding of some of the ways rhythm and pitch function in music, the interpretation of the most common elements of a musical score, and the association of music notation with sound.

MUSC 7. Advanced Theory. 3 Units
Prerequisite(s): MUSC 1 and MUSC 6.
Corequisite(s): MUSC 2.
Term Typically Offered: Fall, Spring

Advanced tonal theory that includes the study of enriched harmonic resources of the eighteenth and nineteenth centuries as well as an introduction to counterpoint and large musical forms. The aural component includes dictation and vocal reading of chromatic music and aural analysis of form.

MUSC 8. Basic Music. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Orientation designed to provide musical knowledge, skills, and competencies necessary for reading music or listening to music.
Note: May not be taken for credit by music majors.

MUSC 9. Music In World Cultures. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Designed as a survey of world music for music majors. Explores how music is used as a form of human expression in all cultures. Musical instruments, forms and styles, and the roles and functions of music in traditional and contemporary societies in various cultures throughout the world.

MUSC 10A. Survey of Music Literature I. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Survey of Medieval, Renaissance and Baroque music literature in Western art music, its stylistic development, and cultural context. Emphasis on score reading and listening. Introduction to primary source readings and musicological literature.

MUSC 10B. Survey of Music Literature II. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

Survey of Classical and Romantic music literature in Western art music, its stylistic development, and cultural context. Emphasis on score reading and listening. Introduction to primary source readings and musicological literature.

MUSC 10C. Survey of Music Literature III. 3 Units
Term Typically Offered: Fall only

Survey of 20th and 21st Century music literature in Western art music, its stylistic development, and cultural context. Emphasis on score reading and listening. Introduction to primary source readings and musicological literature.

MUSC 11A. Music Theory I. 2 Units
Prerequisite(s): MUSC 4 or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 12A for students enrolled in all music degree programs other than the BA Music degree.
Term Typically Offered: Fall, Spring

Theory I is designed to introduce students to some of the materials and structures of certain styles of tonal and modal music. The course begins with a brief review of fundamentals before moving quickly into the understanding of two important kinds of notational shorthand. The second half of the course is concerned primarily with the study of counterpoint. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 11B. Music Theory II. 2 Units
Prerequisite(s): MUSC 11A or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 12B for students enrolled in all music degree programs other than the BA Music degree.
Term Typically Offered: Fall, Spring

Theory II is designed to deepen students' understanding of some of the materials and structures of certain styles of tonal and modal music. The course is a balance of taking music apart through score analysis and putting music together through model composition, or creating original music that imitates a particular style. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 11C. Music Theory III. 2 Units
Prerequisite(s): MUSC 11B or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 12C for students enrolled in a music degree program other than the BA Music degree
Term Typically Offered: Fall, Spring

Theory III is designed to deepen students' understanding of some of the materials and structures of certain styles of tonal and modal music. The course is a balance of taking music apart through score analysis and putting music together through model composition, or creating original music that imitates a particular style. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 12A. Musicianship I. 2 Units
Prerequisite(s): MUSC 4 or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 11A
Term Typically Offered: Fall, Spring

Musicianship I is a skills-focused course designed to improve the way students associate music notation with sound. By improving their skills in this area, students will be able to read music more quickly and accurately, and understand better the music they are listening to. They will accomplish these tasks through a structured approach to sight-reading, transcription, improvisation, and keyboard playing. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 12B. Musicianship II. 2 Units
Prerequisite(s): MUSC 12A or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 11B.
Term Typically Offered: Fall, Spring

Musicianship II is a skills-focused course designed to improve the way students associate music notation with sound. By improving their skills in this area, students will be able to read music more quickly and accurately, and understand better the music they are listening to. They will accomplish these tasks through a structured approach to sight-reading, transcription, improvisation, and keyboard playing. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 12C. Musicianship III. 2 Units
Prerequisite(s): MUSC 12B or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 11C.
Term Typically Offered: Fall, Spring

Musicianship III is a skills-focused course designed to improve the way students associate music notation with sound. By improving their skills in this area, students will be able to read music more quickly and accurately, and understand better the music they are listening to. They will accomplish these tasks through a structured approach to sight-reading, transcription, improvisation, and keyboard playing. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 14B. Basic Piano for Majors. 1 Unit
Prerequisite(s): Music major or minor and instructor permission.
Term Typically Offered: Fall, Spring

Development of fundamental keyboard skills for the non-keyboard Music major. Sectioned according to the ability of the student. Completion of MUSC 14D meets the departmental piano requirement.

MUSC 14C. Basic Piano for Majors. 1 Unit
Prerequisite(s): Music major or minor and instructor permission.
Term Typically Offered: Fall, Spring

Development of fundamental keyboard skills for the non-keyboard Music major. Sectioned according to the ability of the student. Completion of MUSC 14D meets the departmental piano requirement.

MUSC 14D. Basic Piano for Majors. 1 Unit
Prerequisite(s): Music major or minor and instructor permission.
Term Typically Offered: Fall, Spring

Development of fundamental keyboard skills for the non-keyboard Music major. Sectioned according to the ability of the student. Completion of MUSC 14D meets the departmental piano requirement.

MUSC 15. Jazz Piano Class. 1 Unit
Prerequisite(s): MUSC 14D or instructor permission.
Term Typically Offered: Fall, Spring

Provides basic instruction in keyboard skills and jazz theory. Includes composing, basic chord voicing, realizing chord progressions at sight, and fitting chords to a given melody.

MUSC 17. Voice Class. 1 Unit
Term Typically Offered: Fall, Spring

Elementary instruction in the correct use of the singing voice and the development of style in singing. Open to all students beginning the study of voice. Recommended for elementary credential candidates. May be taken for credit four times.

MUSC 18. Music Appreciation. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Basic music orientation for the layman. A non-technical consideration of the various aspects of music literature designed to stimulate interest in all phases of music.
Note: Not open to music majors.

MUSC 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Students with the opportunity to interact with fellow classmates and the seminar leader to build a community of academic support and personal support.

MUSC 25. Voice For Music Theater. 1 Unit
Prerequisite(s): Instructor permission and proficiency examination.
Term Typically Offered: Fall, Spring

Training in vocal techniques and repertoire of the modern American musical theater. May be taken for credit twice.

MUSC 32A. Piano: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 32B. Piano: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 35A. Harpsichord/Organ: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only.
Note: May be taken for credit four times.

MUSC 35B. Harpsichord/Organ: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only.
Note: May be taken for credit four times.

MUSC 37A. Voice: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 37B. Voice: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 38D. Beginning Hand Drums. 1 Unit
Term Typically Offered: Fall, Spring

Explores the fundamentals of hand-drumming through two methods of study: the music of North India, the tabla drums and the rhythmic system of Hindustani music and rhythms of the Middle East through traditional drums, including the tar, riqq, and dumbek.

MUSC 38S. Beginning Shakuhachi. 1 Unit
Term Typically Offered: Fall, Spring

Elementary class instruction in the fundamentals of playing the traditional Japanese flute known as the shakuhachi. The focus is on fundamental blowing and fingering techniques, as well as the basis of the fu ho u notation system.
Note: Open to Music majors and minors; others by instructor permission.

MUSC 39. Beginning Folk Guitar. 1 Unit
Term Typically Offered: Fall, Spring

Folk guitar for the beginner, with emphasis on chords and strums as well as the playing of melodies. Guitars are to be furnished by the student.

MUSC 40B. Beginning Brass. 1 Unit
Term Typically Offered: Fall, Spring

MUSC 40P. Beginning Percussion. 1 Unit
Term Typically Offered: Fall, Spring

MUSC 40S. Beginning Strings. 1 Unit
Term Typically Offered: Fall, Spring

MUSC 40W. Beginning Woodwinds. 1 Unit
Term Typically Offered: Fall, Spring

MUSC 42. Introductory Composition. 2 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall only

Individual instruction in composition for the beginning composition major. Work will be designed to fit the preparation of the student, with emphasis on principles of sound melodic and harmonic construction. Original compositions will develop a mastery of the smaller forms. May be taken twice for credit.

MUSC 43A. Jazz Improvisation I. 2 Units
Prerequisite(s): MUSC 6
Term Typically Offered: Fall, Spring

Part one of a two-semester study of jazz improvisation required of all jazz studies majors. This course will provide the student with basic and intermediate skills of creative improvisation styles in the jazz idiom. In order to expand the skill level of improvisation of each particular jazz student, this class will focus on four main areas: listening, scale and chord development, repertory development and transcribing jazz solos.

MUSC 43B. Jazz Improvisation II. 2 Units
Prerequisite(s): MUSC 43A
Term Typically Offered: Fall, Spring

Part two of a two-semester study of jazz improvisation required of all jazz studies majors. The course will provide the student with intermediate and advanced skills of creative improvisation styles in the jazz idiom. In order to expand the skill levels of improvisation of each particular jazz student, this class will focus on four main areas: listening, scale and chord development, repertory development, and transcribing jazz solos.

MUSC 50. Jazz Applied: Intermediate. 1 Unit
Prerequisite(s): Approval by jazz area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction in jazz performance.
Note: May be taken for credit four times.

MUSC 55A. Violin: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 55B. Violin: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 56A. Viola: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 56B. Viola: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 57A. Cello: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 57B. Cello: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 58A. Double Bass: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 58B. Double Bass: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 60. Introuduction to String Project Pedagogy. 1 Unit
Term Typically Offered: Fall, Spring

In this course students study pedagogical techniques and participate in a step-by-step practicum as assistant teachers in the Sacramento State String Project. Set in a rigorous teaching lab, the course gives students experience both observing and assistant teaching in the String Project program. Student assistants master effective methods of teaching fundamental string instrument skills to beginners, including correct position, tone production, reading proficiency, intonation, phrasing and listening.

MUSC 65A. Flute: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 65B. Flute: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 66A. Oboe: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 66B. Oboe: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 67A. Bassoon: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 67B. Bassoon: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 68A. Clarinet: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 68B. Clarinet: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 69A. Saxophone: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 69B. Saxophone: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 70A. Percussion: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 70B. Percussion: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 71A. Harp: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 71B. Harp: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 74A. Guitar: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 74B. Guitar: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 90A. Trumpet: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 90B. Trumpet: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 91A. Trombone: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 91B. Trombone: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 92A. Baritone: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 92B. Baritone: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 93A. French Horn: Intermediate. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 93B. French Horn: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 94A. Tuba: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 94B. Tuba: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 96. Intro to Hip-Hop Beat-Making. 1 Unit
Corequisite(s): MUSC 118D
This one-unit course is an optional lab supplement to the Area C1 GE course 118D: Hip-Hop in Urban America. Students will learn skills in hip-hop production software including Reason and Ableton Live. Students will learn to create beats including instrument building, sampling, and sequencing. The lab will offer students the opportunity to engage in a hands-on way with the course material in Music 118D, and will track the regional scope of the course schedule closely.

MUSC 99. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty member under whom the work is to be conducted and the Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for lower division students. Open only to students who appear competent to carry on individual work. Credit/No Credit

MUSC 100A. Concert Attendance. 1 Unit
Term Typically Offered: Fall, Spring

Designed to develop critical listening, aural analysis, and the appreciation of a wide range of musical forms and genres. Each student will be required to attend a minimum of ten concerts approved by the Music Department and submit a portfolio of programs attended. Written reviews are required for a determined number of the ten concerts attended.

MUSC 100B. Concert Attendance. 1 Unit
Term Typically Offered: Fall, Spring

Designed to develop critical listening, aural analysis, and the appreciation of a wide range of musical forms and genres. Each student will be required to attend a minimum of ten concerts approved by the Music Department and submit a portfolio of programs attended with comments about the music and performance. May be taken for credit eight times.

MUSC 101. Experiences In Music. 3 Units
Term Typically Offered: Fall, Spring

Development of essential musical skills and knowledge for teaching music in the elementary classroom including competencies necessary for reading and notating music in the elementary classroom. The study of curriculum and literature through songs, rhythmic movement, instrumental activities, creating and improvisation, and listening. Lecture/lab.
Note: Required for the Liberal Studies major.

MUSC 102. Scoring and Arranging. 3 Units
Prerequisite(s): MUSC 7.
Term Typically Offered: Spring only

Scoring and arranging techniques related to the needs of orchestra, concert band, marching band, vocal and instrumental ensembles.

MUSC 103. Counterpoint. 3 Units
Prerequisite(s): MUSC 7.
Term Typically Offered: Fall only

Study of the contrapuntal style and devices of the 18th century. Includes writing in two and three parts in such forms as the canon, invention, chorale prelude, and fugue.

MUSC 104. Contemporary Music Theory and Musicianship. 3 Units
Prerequisite(s): MUSC 11C and MUSC 12C, or placement by exam at the time of university enrollment.
Term Typically Offered: Spring only

In this course, students will engage the art music of today from both a theoretical standpoint; that is, an understanding of musical materials and structures through analysis; and a creative standpoint; that is, creating your their music based upon the models they study through composition and improvisation.

MUSC 105. 20th Century Theory. 3 Units
Prerequisite(s): MUSC 7.
Term Typically Offered: Spring only

Course deals with the harmonic, melodic, and rhythmic aspects of music from Debussy to present, with emphasis on the evolutionary nature of its development.

MUSC 106. Form and Analysis. 3 Units
Prerequisite(s): MUSC 7.
Term Typically Offered: Fall only

Consideration of the development of musical forms from the phrase through the multi-movement sonata and symphony. Emphasis is placed on the music of major 18th, 19th, and 20th century composers.

MUSC 107. Composition. 2 Units
Prerequisite(s): Undergraduate major in music, MUSC 42, or instructor permission.
Term Typically Offered: Fall, Spring

Individualized practical experience in the composition of music. Students are allowed freedom in the development of a personal music style and the exploration of forms and genres. May be taken for credit four times.

MUSC 108A. Jazz Arranging I. 2 Units
Prerequisite(s): MUSC 3 or instructor permission.
Term Typically Offered: Fall, Spring

Part I of a two-semester study of arranging. Provides basic and intermediate tools of creative writing and arranging styles in the jazz idiom as applied to the small jazz ensemble (jazz combo).

MUSC 108B. Jazz Arranging II. 2 Units
Prerequisite(s): MUSC 108A or instructor permission.
Term Typically Offered: Fall, Spring

Part 2 of a two-semester study of arranging. Addresses creative writing in the idiom of the large jazz ensemble (big band). Two major projects are required, performed and recorded. Jazz orchestration is the central focus with special attention to the idiomatic demands from the sections of the big band and how they relate to each other.

MUSC 109. Instrumentation and Arranging. 3 Units
Prerequisite(s): MUSC 11C and MUSC 12C, or placement by exam at the time of university enrollment.
Term Typically Offered: Fall only

This class is designed to introduce students to two topics: instrumentation, or the properties of various instruments and voices, and how to write for them; and orchestration, or how to combine instruments effectively. The approach will be hands-on in nature: students will be called upon to demonstrate their instrument and perform in class, and they will often orchestrate music for their classmates to perform in class.

MUSC 110. Research in Music History. 3 Units
Prerequisite(s): MUSC 7, MUSC 10, Music majors or minors only, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Capstone research in special topics of music history. Emphasis on critical reading, writing, and speaking. This course satisfies the writing intensive requirement for music majors.

MUSC 110B. History Of Music. 3 Units
Prerequisite(s): MUSC 10A and MUSC 10B or equivalent.
Term Typically Offered: Fall, Spring

Chronological study of music's development from ancient Greeks through contemporary composers. Recordings and printed music are used to illustrate the development of musical forms and content through the various periods.
Note: A working knowledge of musical notation is required.

MUSC 118B. American Popular Music: Jazz History. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

A survey of jazz history. Emphasis is placed on the evolution of different jazz styles and trends, through the study of recorded examples and videos by some of the major artists of the 20th century. Discussion of the social conditions surrounding the evolution of jazz will be included.

MUSC 118C. History of Rock Music. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

A survey of rock music history. Emphasis is placed on the diverse influences and subsequent development of classic rock musical styles through the study of recorded examples and videos by major artists of the 20th century. Discussion of the social conditions surrounding the evolution of rock music will be included.

MUSC 118D. Hip-Hop in Urban America. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

A survey course of hip-hop history. Emphasis is on the musical and cultural evolution of hip-hop through the study of recorded examples, videos, and articles focused on five urban hip-hop centers: New York, Los Angeles, Chicago, and New Orleans.

MUSC 119A. World Music: Asia. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examines music from cultures in Asia. Music is examined as a cultural process, a cultural object and as sound. Musical instruments, forms and styles are discussed along with the roles and functions of music. Although traditional music will be emphasized, contemporary and popular music will also be discussed.

MUSC 119B. World Music: Africa. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examines music from cultures in Africa. Music is examined as a cultural process, a cultural object and as sound. Musical instruments, forms and styles are discussed along with the roles and functions of music. Although traditional music will be emphasized, contemporary and popular music will also be discussed.

MUSC 119C. World Music: Latin America. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examines music from cultures in Latin America. Music is examined as a cultural process, a cultural object and as sound. Musical instruments, forms and styles are discussed along with the roles and functions of music. Although traditional music will be emphasized, contemporary and popular music will also be discussed.

MUSC 125. Advanced Voice for Music Theater. 1 Unit
Prerequisite(s): MUSC 25 or instructor permission and proficiency examination.
Term Typically Offered: Fall, Spring

Designed to give singers advanced training in vocal techniques, interpretation, stage presence, audition preparation, through the utilization of modern musical theater repertoire commensurate with the individual abilities of each class participant.
Note: May be taken twice for credit.

MUSC 127. The American Musical Theater. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Study of Broadway musicals. Examination of the music, lyrics, dramatic structure, and use of dance in selected shows which demonstrate the evolution of the American musical from its inception through contemporary forms. Includes reading, discussion, listening assignments, and attendance at live performances.

MUSC 129. American Society and Its Music. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Arts (Area C1)
Term Typically Offered: Fall, Spring

Introduction, through reading, discussion, taped assignments in the Music Department listening center, live music in the classroom, and outside live listening assignments, to all significant manifestations of American music, their roots, and their place in American life. Includes folk, religious, popular, jazz, and fine-art music.

MUSC 130. Pedagogy of Music Theory and Musicianship. 3 Units
Prerequisite(s): MUSC 11C and MUSC 12C, or placement by exam at the time of university enrollment.
Term Typically Offered: Fall only

This course will serve as a laboratory in which you will learn about and try out effective written theory and aural skills pedagogical practices. You will read research by leading music theorists and cognitive scientists, survey textbooks, develop lesson plans and courses, practice-teach your classmates, and tutor Sacramento State students.

MUSC 132A. Piano: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 132B. Piano: Advanced - BM. 1 Unit
Prerequisite(s): Admission to the BM degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 135A. Harpsichord/Organ: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only.
Note: May be taken for credit four times.

MUSC 135B. Harpsichord/Organ: Advanced- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only.
Note: May be taken for credit four times.

MUSC 136A. Diction For Singers. 3 Units
Term Typically Offered: Fall, Spring

International Phonetic Alphabet and its application to song literature in Latin, Italian, German, French, and English. Designed for advanced voice majors, others admitted by instructor permission.

MUSC 136B. Vocal Pedagogy. 2 Units
Term Typically Offered: Fall, Spring

Study of the methods, problems and practical application of teaching singing. Topics will include the functional unity of the signing voice, pedagogical principles, and current methods/resources in voice training, teaching the beginning singer. Designed for voice majors; other admitted by instructor permission.

MUSC 137A. Voice: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 137B. Voice: Advanced - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 140. Jazz Theory and Harmony. 2 Units
Prerequisite(s): MUSC 7 and instructor permission.
Term Typically Offered: Spring only

Introduction to the theoretical language of jazz improvisation: rhythms, articulations, style, harmony and melody, forms, simple analysis, chord/scale relationships, ear training and key board harmony.

MUSC 141A. Piano Chamber Music. 2 Units
Prerequisite(s): 4 semesters of MUSC 142.
Corequisite(s): MUSC 132B or equivalent.
Term Typically Offered: Fall, Spring

Instruction in small ensemble rehearsal performance. Focus given to duos, trios, and quartets of various instrumentation with piano. Includes required performances, listening, reading , and examination.

MUSC 141B. Piano Chamber Music. 2 Units
Prerequisite(s): MUSC 141A.
Corequisite(s): MUSC 132B or equivalent.
Term Typically Offered: Fall, Spring

Continued instruction in small ensemble rehearsal performance. Focus on duos, trios, and quartets of various instrumentation with piano. Includes required performances, listening, reading, and examination.

MUSC 142B. Concert Band. **1 Unit**
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142C. Concert Choir. **1 Unit**
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142M. Marching Band. **2 Units**
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142S. Orchestra. **1 Unit**
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142T. Opera Theater. **1 Unit**
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142U. University Chorus. **1 Unit**
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142W. Symphonic Wind Ensemble. **1 Unit**
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 143J. Instrumental Jazz Ensemble. **1 Unit**
Term Typically Offered: Fall, Spring

Rehearsal and performance of literature written for instrumental jazz ensemble.
Note: May be taken for credit eight times.

MUSC 143V. Vocal Jazz Ensemble. **1 Unit**
Term Typically Offered: Fall, Spring

Rehearsal and performance of literature written for vocal jazz ensemble.
Note: May be taken for credit eight times.

MUSC 144B. Brass Ensemble. **1 Unit**
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144G. Chamber Music -- Guitar. **1 Unit**
Term Typically Offered: Fall, Spring

Coaching in the performance of chamber music for guitar. Open to both BA and BM majors upon permission of major instructor of applied music. May substitute for a maximum of two semesters of major performing ensemble requirement.
Note: May be taken for credit eight times.

MUSC 144I. Chamber Music -- Instrumental Jazz. **1 Unit**
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144L. Chamber Music -- Liberace. **1 Unit**
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144P. Percussion Ensemble. **1 Unit**
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144S. String Ensemble. **1 Unit**
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144W. Woodwind Ensemble. **1 Unit**
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144X. Saxophone Ensemble. **1 Unit**
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 145. Pep Band. **1 Unit**
Corequisite(s): MUSC 142W, MUSC 142B, or MUSC 142M, or instructor permission.
Term Typically Offered: Fall, Spring

Performance of instrumental music for university and community events.

MUSC 146. Camerata Capistrano Baroque. **1 Unit**
Term Typically Offered: Fall, Spring

A conductor-less ensemble that explores in-depth score study, detailed techniques for stylistic performance, and advanced concertante playing of varied repertoire from the Renaissance to contemporary works in groupings of diverse size. Instrumentalists, keyboardists and singers are invited to experience repertoire not normally encountered in the symphony orchestra or traditional chamber groups. Students w111 achieve a more comprehensive understanding of musical preparation, ensemble discipline and conductor-less performance, culminating in a final concert for a public audience. Paired with MUSC 246.
Note: Each participant must be an enrolled student or registered volunteer, admitted with Instructor permission. Non·Music majors must purchase a music fee card (Lassen Hall) In order to participate. Registered volunteers will receive a parking pass for rehearsal times after required paperwork is completed. May be taken for credit eight times.

MUSC 150. Jazz Applied: Advanced BM. **2 Units**
Prerequisite(s): Approval by jazz area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction in jazz performance.
Note: May be taken for credit four times.

MUSC 150A. Jazz Applied: Advanced Mus Ed Emphasis. **1 Unit**
Prerequisite(s): Approval by jazz area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction in jazz performance for students pursuing the Music Education emphasis.
Note: May be taken for credit four times.

MUSC 151. Fundamentals of Conducting. 2 Units
Prerequisite(s): MUSC 2, MUSC 7.
Term Typically Offered: Fall only

Basic techniques and skills of conducting. Areas of concern are all basic patterns in simple, compound and asymmetrical meters, correct baton technique, styles, appropriate left hand usage, tempi, fermatas, and introduction to simple score reading.

MUSC 153. Advanced Choral Conducting. 2 Units
Prerequisite(s): MUSC 151.
Term Typically Offered: Spring only

Choral techniques, including rehearsal procedures, score analysis, choral/orchestral repertoire, and approaches to choral literature from the main history eras.

MUSC 154. Advanced Instrumental Conducting. 2 Units
Prerequisite(s): MUSC 151.
Term Typically Offered: Spring only

Instrumental conducting techniques including refinement of basic conducting skills, rehearsal procedures, score study, and familiarization with and interpretation of instrumental literature.

MUSC 155A. Violin: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 155B. Violin: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 156A. Viola: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 156B. Viola: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 157A. Cello: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 157B. Cello: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 158A. Double Bass: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 158B. Double Bass: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 160. Advanced String Project Pedagogy. 1 Unit
Prerequisite(s): MUSC 60 and instructor consent
Term Typically Offered: Fall, Spring

This course is a step-by-step practicum that prepares students to be lead teachers in the Sacramento State Strings Project. Set in rigorous teaching lab, the course gives students experience in creating lesson plans and teaching in the String Project program. Student teachers learn to apply effective pedagogical methods and techniques to teach fundamental skills to beginning level children and more advanced skills to intermediate-level children.

MUSC 161. Jazz Pedagogy. 2 Units
Term Typically Offered: Spring only

Develops skills in the teaching of jazz in all of its facets and dimensions by a variety of approaches to materials, techniques and philosophies surrounding jazz education. Choosing, editing, rehearsing and programming concert materials will be taught. Also taught are scheduling, music and equipment maintenance, basic administration concerns, and other factors pertinent to operating a jazz program.

MUSC 162. Foundations of Music Education. 2 Units
Prerequisite(s): Sophomore status in music or instructor permission.
Term Typically Offered: Fall only

For majors considering a teaching career. Overview of the history, principal philosophies, current issues, methodologies and materials related to Music Education in kindergarten through twelfth grade. Guided classroom and/or rehearsal observations at the elementary, middle/junior high school and senior high levels. Required for the Music Education major.

MUSC 164. Music in General Education. 2 Units
Prerequisite(s): Sophomore status in music or instructor permission.
Term Typically Offered: Spring only

Curricular and instructional strategies for non-performance music classes in kindergarten through twelfth grade. Teaching techniques for classroom instruments, with emphasis on folk guitar. Required for the Music Education major.

MUSC 165A. Flute: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 165B. Flute: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 166A. Oboe: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 166B. Oboe: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 167A. Bassoon: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 167B. Bassoon: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 168A. Clarinet: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 168B. Clarinet: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 169A. Saxophone: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 169B. Saxophone: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 170A. Percussion: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 170B. Percussion: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 171A. Harp: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 171B. Harp: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 172. Repertoire Class in the Performance Major. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Parallel class taken in conjunction with the performance major to supplement student's knowledge of the literature, performance practice, pedagogy, and criticism of his chosen instrument or voice. May be taken for credit four times.

MUSC 173A. Vocal Accompanying. 2 Units
Prerequisite(s): 4 semesters of MUSC 142.
Corequisite(s): MUSC 132B or equivalent.
Term Typically Offered: Fall, Spring

Introductory course to piano accompanying with an emphasis on vocal literature. Includes techniques of sight reading, elementary transposition, and interpretation of lieder from the pianist's point of view.

MUSC 173B. Vocal Accompanying. 2 Units
Prerequisite(s): MUSC 173A.
Corequisite(s): MUSC 132B or equivalent.
Term Typically Offered: Fall, Spring

Continuing study of piano accompanying with an emphasis on art song repertoire. Includes techniques of sight reading, transposition, rehearsing, as well as realization of orchestral reductions. Performances required.

MUSC 174A. Guitar: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 174B. Guitar: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 175. Junior Recital. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, or instructor permission.
Term Typically Offered: Fall, Spring

Formal recital demonstrating the performance abilities of the student. Contents of the program must be approved by instructor in the major performance medium, and permission to enroll approved by the appropriate faculty committee of the performance medium.

MUSC 176. Piano Pedagogy. 2 Units
Prerequisite(s): 4 units of MUSC 32B or equivalent; admission to Bachelor of Music program, or instructor permission.
Term Typically Offered: Spring only

Study of the content, methods and problems of teaching the piano with an emphasis on the first years of instruction for both the child and adult beginner.

MUSC 178. Vocal Literature and Materials (Grades 4-12). 3 Units
Corequisite(s): Phase III Student Teaching.
Term Typically Offered: Fall only

Methods and materials for teaching voice and choral music in grades 4-12. Includes introduction to singing, care and development of the student voice, rehearsal techniques, and selection of materials appropriate for use in small and large choral ensembles.
Note: Required for Music Education students enrolled in Phase III of the Credential Program.

MUSC 179. Instrumental Literature and Materials. 2 Units
Prerequisite(s): 4 units in MUSC 40.
Term Typically Offered: Spring only

Methods and materials for beginning instrumental classes, orchestras and bands, solos and ensembles, marching band, and stage band.
Note: Required for instrumental students and recommended for choral students.

MUSC 180. Advanced Counterpoint. 2 Units
Prerequisite(s): MUSC 103 and instructor permission
Term Typically Offered: Fall, Spring

Advanced Counterpoint. Counterpoint styles from 16th to 20th centuries are studied through analysis of works from the repertoire and completion of preliminary exercises, culminating in the composition of original student pieces in various historical styles. Includes writing in two, three, and four parts. Work will be designed to a large extent to fit the needs, preparation and interest of individual students. May be taken twice for credit.

MUSC 183. Digital Synthesis and Sampling. 2 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Course for students with previous electronic music experience who wish to gain more technical background. Topics include various principles of digital synthesis with an emphasis on independent voice construction, principles of sampling synthesizers, computer-based digital synthesis, and advanced MIDI applications.

MUSC 184. Senior Seminar. 1 Unit
Prerequisite(s): Music major with senior standing
Term Typically Offered: Fall, Spring

Weekly seminar for senior students in the B.A. Music concentration. Senior portfolio preparation, resume preparation, and career planning. Credit/No Credit

MUSC 185. Senior Recital. 2 Units
Term Typically Offered: Fall, Spring

A formal recital demonstrating the performance abilities of the student. Required of all majors completing the Bachelor's degree in Music. Permission to enroll by permission of the appropriate faculty committee. MUSC 185H or MUSC 185A may be substituted for 185 with the permission of the appropriate faculty committees. Contents of the program must be approved and supervised by instructor in the performance medium.

MUSC 185A. Senior Audition. 1 Unit
Term Typically Offered: Fall, Spring

Informal program presented before a faculty committee and invited guests. It is designed to accommodate students who have special problems in developing their performance to Senior Recital level. Registration must be approved by the applied music faculty, and contents of the audition approved and supervised by instructor in the performing medium.

MUSC 185E. Senior Recital Music Education. 1 Unit
Term Typically Offered: Fall, Spring

Formal half recital, generally shared with another student. Required of students completing the BM in Music Education degree. Registration must be approved by the applied music faculty and contents of the audition approved and supervised by instructor in the performing medium.

MUSC 185H. Honors Recital. 2 Units
Term Typically Offered: Fall, Spring

Applied music faculty may designate outstanding performers for an Honors Recital. Contents of the program must be approved and supervised by instructor in the performance medium.

MUSC 185J. Senior Recital Jazz. 2 Units
Prerequisite(s): Permission by appropriate faculty committee.
Term Typically Offered: Fall, Spring

Formal recital demonstrating the performance abilities of the student in the Jazz Studies concentration. Contents of the program must be approved and supervised by instructor in the performance medium.

MUSC 190A. Trumpet: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 190B. Trumpet: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 191A. Trombone: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 191B. Trombone: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 192A. Baritone: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 192B. Baritone: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 193A. French Horn: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 193B. French Horn: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 194A. Tuba: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 194B. Tuba: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 195. Fieldwork in Music. 1 - 3 Units
Term Typically Offered: Fall, Spring

Directed observation and work experience with public agencies. Field work is offered for the purpose of giving students orientation in occupational specialties. Supervision is provided by both university instructional staff and cooperating agencies. Each student is required to maintain a record of activities and assignments and to prepare periodic reports. The student must make arrangements with a faculty member for a work program prior to admittance.
Credit/No Credit

MUSC 197. Music And Business. 3 Units
Term Typically Offered: Fall, Spring

Introduction to career possibilities in the area of music and business. Students will explore and develop directions of interest and opportunity through reading, discussion, lectures, and outside speakers. Individual field projects will provide the opportunity to see at close hand the workings of Sacramento area music businesses of the student's choice.

MUSC 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work. Admission requires the approval of the faculty member under whom the work is to be conducted and of the Department Chair.
Credit/No Credit

MUSC 201. Introduction to Graduate Study. 3 Units
Prerequisite(s): An undergraduate degree with music major or instructor permission.
Term Typically Offered: Fall, Spring

Systematic and historical study of the various disciplines related to music. Prepares the student to do advanced study and research. Required of all MM students in Music. Must be taken the first time scheduled after student is enrolled.
Note: Graduate Writing Intensive

MUSC 202A. Seminar in Music Education. 3 Units
Term Typically Offered: Fall, Spring

Study of current methodology in the development of reliable knowledge in the field of music education. Includes identification and formation of research problems, designing, and strategies.

MUSC 202B. Seminar in Music Education. 3 Units
Term Typically Offered: Fall, Spring

Review of current research trends in music education. Includes review of relevant literature and the definition, design, and justification of a research problem.

MUSC 206. Topics in Music History. 3 Units
Prerequisite(s): Undergraduate major in music or instructor permission
Term Typically Offered: Fall, Spring

Detailed study of topics in music history and their relation to musical style, performance, reception, and cultural context. Designed to allow narrow focus on the historical contexts of a particular theory, repertoire, performance practice, or critical stance. May be repeated for credit with different topics.

MUSC 207. Topics in Music Analysis. 3 Units
Prerequisite(s): Undergraduate major in music or instructor permission.
Term Typically Offered: Fall, Spring

Detailed study of topics in music analysis and its relation to harmony, rhythm, style, and form. Designed to allow narrowed focus on music of a select composer or small group of com posers. May be repeated for credit with different topics.

MUSC 208. Topics in Ethnomusicology. 3 Units
Prerequisite(s): Undergraduate major in music or instructor permission.
Term Typically Offered: Fall, Spring

Current practices, methodologies, and scholarly agendas in the field of ethnomusicology including global studies of traditional, classical, folk, and popular musics. Readings from interdisciplinary literature. Students respond in discussion and writing to this scholarly discourse in order to familiarize themselves with theoretical approaches current in the discipline and to practice the spoken and written conventions of the field.

MUSC 210. Composition. 2 Units
Prerequisite(s): Undergraduate composition and instructor permission.
Term Typically Offered: Fall, Spring

Advanced work in composition for students seeking the MM degree with composition option. May be taken for credit twice.

MUSC 211. Graduate Music Theory. 3 Units
Term Typically Offered: Fall, Spring

Comprehensive and intensive overview of the major disciplines of music theory with an emphasis on application of skills. Focus is mainly on tonal practice (part writing, figured bass realization, chromatic harmony, melodic construction, phrase structure, reductive analysis, forms) but also includes discussion of post-tonal music and applicable analytical techniques (extended scalar resources, dodecaphony, set-theory).

MUSC 214. Ethnomusicology. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the field of Ethnomusicology with an emphasis on its history, development, contemporary trends, research issues, and methodologies.
Note: May be used as a music history elective.

MUSC 217A. Choral Conducting Applied Music. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Graduate music majors only. May be taken for credit four times.
Note: Limited to choral conducting students only.

MUSC 217B. Instrumental Conducting Applied Music. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Graduate music majors only. May be taken for credit four times.
Note: Limited to instrumental conducting students only.

MUSC 218A. Choral Conducting Techniques. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Training in technique and repertoire at the graduate level. May be taken for credit four times.
Note: Limited to choral conducting students only.

MUSC 218B. Instrumental Conducting Techniques. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Training in technique and repertoire at the graduate level. May be taken for credit four times.
Note: Limited to instrumental conducting students only.

MUSC 219. Graduate Applied Music. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Classified graduate Music majors and graduate music credential candidates only. May be taken for credit four times.

MUSC 220. Performance Techniques. 1 Unit
Prerequisite(s): Approval by area applied music committee to enter performance option for the MM; instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Classified graduate Music majors only. Training in technique and repertoire at the graduate level. May be taken for credit four times.

MUSC 242. Advanced Large Performance Ensemble. 1 Unit
Term Typically Offered: Fall, Spring

Study, rehearsal, and public performance of musical repertoire appropriate for the specific ensemble (e.g. orchestra, band, choir, opera, etc.).

MUSC 244. Advanced Chamber Music. 1 Unit
Term Typically Offered: Fall, Spring

Study, rehearsal, and public performance of musical repertoire appropriate for the specific ensemble (e.g. string quartet, wind quintet, etc.).

MUSC 246. Camerata Capistrano Baroque. 1 Unit
Term Typically Offered: Fall, Spring

A conductor-less ensemble that explores in-depth score study, detailed techniques for stylistic performance, and advanced concertante playing of repertoire from the Renaissance to newly composed works In groupings of diverse size. Instrumentalists, keyboardists and singers are invited to experience repertoire not normally encountered in the symphony orchestra or traditional chamber groups. Students will ultimately achieve a more comprehensive understanding of musical preparation, ensemble discipline and conductor-less performance, culminating in a final concert for a public audience. Paired with MUSC 146.
Note: This course is paired with MUSC 146. Students who have received credit for MUSC 146 as an undergraduate student at CSU Sacramento will not receive credit for MUSC 246. Each participant must be an enrolled student or registered volunteer, admitted with Instructor permission. Non-Music majors must purchase a music fee card (Lassen Hall) in order to participate. Registered volunteers will receive a parking pass for rehearsal times after required paperwork Is completed. May be taken for credit four times.

MUSC 285. Graduate Recital. 2 Units
Prerequisite(s): Permission to enter Performance option and approval of Music Department Graduate Studies Committee.
Term Typically Offered: Fall, Spring

Public recital demonstrating the performance abilities and musical maturity of the student. Content of the recital and quality of performance must be approved by instructor in the performance medium. Must articulate with MUSC 500B.

MUSC 295. Fieldwork in Music. 1 - 3 Units
Term Typically Offered: Fall, Spring

Directed observation and work experience. Fieldwork is offered for the purpose of giving students orientation in occupational specialties. Supervision is provided by both the instructional staff of the university and cooperating agencies. Each student is required to maintain a record of activities and assignments and to prepare periodic reports. The student must make arrangements with a faculty member for a work program prior to admittance to the course.
Credit/No Credit

MUSC 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty member under whom the work is to be conducted and the Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work.
Credit/No Credit

MUSC 500. Culminating Experience. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission from the graduate coordinator.
Term Typically Offered: Fall, Spring

Completion of thesis or project approved for the Master's degree. Three options are available:

MUSC 500D. Comprehensive Examination. 0 Units
Prerequisite(s): Advanced to Candidacy and permission from graduate coordinator.
Term Typically Offered: Fall, Spring

The Comprehensive Examination is one of the culminating experiences available for the Master of Music Education Degree. The one-hour oral examination is taken during the final semester of the degree program and administered by a three-member graduate faculty committe. The material to be addressed includes the content of classess taken and the application of concepts as applied to music education.
Credit/No Credit

BA in Music

Units required for Major: 40
Total units required for BA: 120

Program Description

The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School's faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.

Students majoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University's program.

Grade 'C-' or better required in all courses applied to the major.

General Requirements

The following are required for the Bachelor of Arts and Bachelor of Music degree programs:

Performance Evaluation: Upon entering the music major, each student is required to:

1. declare his/her major performance medium (instrument or voice);
2. perform an entering placement audition before the appropriate applied faculty; and
3. continue the development of his/her performance ability through regular study in accordance with Departmental requirements.

This development in performance is demonstrated at end-of-semester auditions before the applied music faculty. See applied music numbers for appropriate courses.

Soloist: Each student in the BA program of sophomore standing or above should appear as a soloist in at least one student recital or repertoire class each semester. Students in the BM program must do either a repertoire class performance or one student recital each semester.

Ensemble: As an ensemble experience, each student must participate in at least one large performing ensemble each semester. The following groups meet this requirement: symphonic band, concert band, marching band, opera workshop, orchestra, concert choir, or University chorus. Assignment to the performing ensemble(s) is to be made in consultation with the music major advisor and by audition. A MUSC 142 series course is the appropriate course in which to register.

Piano: All undergraduate students majoring in music must have basic facility in piano to graduate from the University. For students other than keyboard majors, completion of MUSC 14D meets this requirement.

Attendance/concerts-recitals: Each music major is required to attend a minimum of ten concerts and/or recitals each semester. Attendance is monitored electronically. Students may choose to earn academic credit for this requirement by enrolling in MUSC 100A as an elective.

Teacher Preparation: Teaching credential candidates must also complete the Professional Education Program in addition to the BM Music Education requirements. See the College of Education section of this catalog for admission procedures and consult the department credential advisor for details.

Marching Band: Wind and percussion majors who are credential candidates must include at least one semester of marching band (MUSC 142M) as their Large Performance Ensemble experience.

Program Requirements

Code	Title	Units
Required Lower Division Courses (20 Units)		
MUSC 9	Music In World Cultures [1]	3
MUSC 10A	Survey of Music Literature I [1]	3
or MUSC 10C	Survey of Music Literature III	
MUSC 10B	Survey of Music Literature II [1]	3
MUSC 11A	Music Theory I	2
MUSC 11B	Music Theory II	2
MUSC 11C	Music Theory III	2
MUSC 14C	Basic Piano for Majors	1
Select 4 units of Applied Music (lower division)		4
Additional Requirements for Concentration (17 Units)		
Upper Division Performance Studies		
Select 3 units from either applied study, large/small ensembles, rep classes or conducting		3
MUSC 142 Series (a Large Performing Ensemble) [2]		4
Upper Division Music History/Literature or Theory		
Select three of the following:		9
MUSC 104	Contemporary Music Theory and Musicianship	
MUSC 109	Instrumentation and Arranging	
MUSC 110	Research in Music History [1]	
MUSC 118 series (Music History)		
MUSC 119 series (World Music)		
MUSC 127	The American Musical Theater [1]	
MUSC 129	American Society and Its Music [1]	
Senior Seminar		
MUSC 184	Senior Seminar	1
Total Units		37

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] A course from the MUSC 142 series must be taken 4 times for a total of 4 units; each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level. **Students enrolled in Applied Voice as their major instrument:** A minimum of 4 semesters of MUSC 142 in a choral ensemble (142C or 142U, placement based on audition with the Director) is required. Transfer students in Voice may receive up to 2 semesters of credit toward this requirement from another institution upon approval from the Director of Choral Activities.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (3-6 Units)		
C1 - Arts [2]		0
C2 - Humanities		3
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		40-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following' option:

- If student chooses to take MUSC 127 or MUSC 129, they will meet upper division Area C.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6-9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0 - 3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Department offers students a 'select from the following' option:
   - If student chooses to take MUSC 110, MUSC 127, or MUSC 129, they will meet the Writing Intensive (WI) graduation requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Bachelor of Music (Instrumental)

Units required for Major: 71-76, including units for concentration (see below)
Total units required for BM: 120

Program Description

The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School's faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.

Students majoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University's program.

Admission Requirements

Admission to the Bachelor of Music degree program requires the recommendation of the student's major applied instructor, a 3.0 GPA in music courses, and approval of the applied area based upon a successful audition. Admission criteria and audition instructions may be obtained from the Music Department Office.

Each area of concentration has unique course requirements. Students interested in a BM degree should discuss the details of the program with a faculty advisor in the Music Department.

Grade 'C-' or better required in all courses applied to the major.

General Requirements

The following are required for the Bachelor of Arts and Bachelor of Music degree programs:

Performance Evaluation: Upon entering the music major, each student is required to:

1. declare his/her major performance medium (instrument or voice);
2. perform an entering placement audition before the appropriate applied faculty; and
3. continue the development of his/her performance ability through regular study in accordance with Departmental requirements.

This development in performance is demonstrated at end-of-semester auditions before the applied music faculty. See applied music numbers for appropriate courses.

Soloist: Each student in the BA program of sophomore standing or above should appear as a soloist in at least one student recital or repertoire class each semester. Students in the BM program must do either a repertoire class performance or one student recital each semester.

Ensemble: As an ensemble experience, each student must participate in at least one large performing ensemble each semester. The following groups meet this requirement: symphonic band, concert band, marching band, opera workshop, orchestra, concert choir, or University chorus. Assignment to the performing ensemble(s) is to be made in consultation with the music major advisor and by audition. A MUSC 142 series course is the appropriate course in which to register.

Piano: All undergraduate students majoring in music must have basic facility in piano to graduate from the University. For students other than keyboard majors, completion of MUSC 14D meets this requirement.

Attendance/concerts-recitals: Each music major is required to attend a minimum of ten concerts and/or recitals each semester. Attendance is monitored electronically. Students may choose to earn academic credit for this requirement by enrolling in MUSC 100A as an elective.

Teacher Preparation: Teaching credential candidates must also complete the Professional Education Program in addition to the BM Music Education requirements. See the College of Education section of this catalog for admission procedures and consult the department credential advisor for details.

Marching Band: Wind and percussion majors who are credential candidates must include at least one semester of marching band (MUSC 142M) as their Large Performance Ensemble experience.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (26 Units)		
MUSC 3	MIDI Sequencing and Notation	2
MUSC 9	Music In World Cultures [1]	3
MUSC 10A	Survey of Music Literature I [1]	3
MUSC 10B	Survey of Music Literature II [1]	3
MUSC 10C	Survey of Music Literature III	3
MUSC 11A	Music Theory I	2
MUSC 11B	Music Theory II	2
MUSC 11C	Music Theory III	2
MUSC 12A	Musicianship I	2
MUSC 12B	Musicianship II	2
MUSC 12C	Musicianship III	2
Required Upper Division Core Courses (15 Units)		
MUSC 104	Contemporary Music Theory and Musicianship	3
MUSC 109	Instrumentation and Arranging	3
MUSC 110	Research in Music History [1]	3
MUSC 142 series course [2]		4
MUSC 151	Fundamentals of Conducting	2
Additional Requirements for Concentrations (30-35 Units)		
Select one of the following six areas of concentration:		30 - 35
Instrumental		
Jazz Studies or Jazz Studies with Music Education Emphasis		
Keyboard		
Music Education		
Theory/Composition		
Voice		
Total Units		71-76

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. A course from the MUSC 142 series must be taken 4 times for a total of 4 units; each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level.

Concentration in Instrumental (30 units)

Code	Title	Units
MUSC 14D	Basic Piano for Majors	1
Select 4 units of Instruments: Intermediate [1, 2]		4
Select 4 units of Instruments: Intermediate BM [2]		4
Select 4 units of Instruments: Advanced [1, 2]		4
Select 4 units of Instruments: Advanced BM [2]		4
MUSC 142 series course [3]		4
MUSC 144 series course [4]		2
MUSC 154	Advanced Instrumental Conducting	2
MUSC 172 series course [4]		2
MUSC 175	Junior Recital	1
MUSC 185	Senior Recital	2
Total Units		30

1. **All BM instrumental majors**, regardless of their unit load, shall be enrolled each semester in Applied Music for 2 units (until they have reached the maximum of 16 units), and in a Large Performance Ensemble until the Senior Recital is completed. Each music major is required to attend a minimum of 10 concerts and/or recitals each semester.
2. See faculty advisor.
3. Course must be repeated four times for a total of 4 units. Each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level.
4. Course must be repeated two times for a total of 2 units.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6 Units)		
C1 - Arts [2]		0
C2 - Humanities		3
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Bachelor of Music (Jazz Studies)

Units required for Major: 71-76, including units for concentration (see below)
Total units required for BM: 120

Program Description

The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School's faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.

Students majoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University's program.

Admission Requirements

Admission to the Bachelor of Music degree program requires the recommendation of the student's major applied instructor, a 3.0 GPA in music courses, and approval of the applied area based upon a successful audition. Admission criteria and audition instructions may be obtained from the Music Department Office.

Each area of concentration has unique course requirements. Students interested in a BM degree should discuss the details of the program with a faculty advisor in the Music Department.

Grade 'C-' or better required in all courses applied to the major.

General Requirements

The following are required for the Bachelor of Arts and Bachelor of Music degree programs:

Performance Evaluation: Upon entering the music major, each student is required to:

1. declare his/her major performance medium (instrument or voice);
2. perform an entering placement audition before the appropriate applied faculty; and
3. continue the development of his/her performance ability through regular study in accordance with Departmental requirements.

This development in performance is demonstrated at end-of-semester auditions before the applied music faculty. See applied music numbers for appropriate courses.

Soloist: Each student in the BA program of sophomore standing or above should appear as a soloist in at least one student recital or repertoire class each semester. Students in the BM program must do either a repertoire class performance or one student recital each semester.

Ensemble: As an ensemble experience, each student must participate in at least one large performing ensemble each semester. The following groups meet this requirement: symphonic band, concert band, marching band, opera workshop, orchestra, concert choir, or University chorus. Assignment to the performing ensemble(s) is to be made in consultation with the music major advisor and by audition. A MUSC 142 series course is the appropriate course in which to register.

Piano: All undergraduate students majoring in music must have basic facility in piano to graduate from the University. For students other than keyboard majors, completion of MUSC 14D meets this requirement.

Attendance/concerts-recitals: Each music major is required to attend a minimum of ten concerts and/or recitals each semester. Attendance is monitored electronically. Students may choose to earn academic credit for this requirement by enrolling in MUSC 100A as an elective.

Teacher Preparation: Teaching credential candidates must also complete the Professional Education Program in addition to the BM Music Education requirements. See the College of Education section of this catalog for admission procedures and consult the department credential advisor for details.

Marching Band: Wind and percussion majors who are credential candidates must include at least one semester of marching band (MUSC 142M) as their Large Performance Ensemble experience.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (26 Units)		
MUSC 3	MIDI Sequencing and Notation	2
MUSC 9	Music In World Cultures [1]	3

MUSC 10A	Survey of Music Literature I [1]	3
MUSC 10B	Survey of Music Literature II [1]	3
MUSC 10C	Survey of Music Literature III	3
MUSC 11A	Music Theory I	2
MUSC 11B	Music Theory II	2
MUSC 11C	Music Theory III	2
MUSC 12A	Musicianship I	2
MUSC 12B	Musicianship II	2
MUSC 12C	Musicianship III	2
Required Upper Division Core Courses (15 Units)		
MUSC 104	Contemporary Music Theory and Musicianship	3
MUSC 109	Instrumentation and Arranging	3
MUSC 110	Research in Music History [1]	3
MUSC 142 series course [2]		4
MUSC 151	Fundamentals of Conducting	2
Additional Requirements for Concentrations (30-35 Units)		
Select one of the following six areas of concentration:		30 - 35
Instrumental		
Jazz Studies or Jazz Studies with Music Education Emphasis		
Keyboard		
Music Education		
Theory/Composition		
Voice		
Total Units		71-76

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] A course from the MUSC 142 series must be taken 4 times for a total of 4 units; each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level

Concentration in Jazz Studies (35 units)

Code	Title	Units
MUSC 14D	Basic Piano for Majors	1
MUSC 15	Jazz Piano Class	1
MUSC 43A	Jazz Improvisation I	2
MUSC 43B	Jazz Improvisation II	2
MUSC 50 series course [1]		4
MUSC 108A	Jazz Arranging I	2
MUSC 108B	Jazz Arranging II	2
MUSC 118B	American Popular Music: Jazz History	3
MUSC 140	Jazz Theory and Harmony	2
MUSC 143 series course [1]		4
MUSC 150 series course [2]		8
MUSC 161	Jazz Pedagogy	2
MUSC 185J	Senior Recital Jazz	2
Total Units		35

[1] Course must be repeated four times for a total of 4 units.

[2] Course must be repeated four times for a total of 8 units.

Concentration in Jazz Studies with Music Education Emphasis (36 units)

Code	Title	Units
MUSC 14D	Basic Piano for Majors	1
MUSC 15	Jazz Piano Class	1
MUSC 40 series course [1]		4
MUSC 43A	Jazz Improvisation I	2
MUSC 43B	Jazz Improvisation II	2
Applied Music: Intermediate [1]		2
MUSC 50 Jazz Applied: Intermediate [1]		2
MUSC 150A Jazz Applied: Adv, Mus Ed Emphasis [2]		4
MUSC 102	Scoring and Arranging	3
MUSC 140	Jazz Theory and Harmony	2
MUSC 143 series course [1]		4
MUSC 153	Advanced Choral Conducting	2
or MUSC 154	Advanced Instrumental Conducting	
MUSC 161	Jazz Pedagogy	2
MUSC 162	Foundations of Music Education	2
MUSC 164	Music in General Education	2
MUSC 185E	Senior Recital Music Education	1
Total Units		36

[1] Course must be repeated two times for a total of 2 units.

[2] Course must be repeated four times for a total of 4 units.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6 Units)		
C1 - Arts [2]		0
C2 - Humanities		3
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		

Area E Course	3
Total Units	43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Bachelor of Music (Keyboard)

Units required for Major: 71-76, including units for concentration (see below)
Total units required for BM: 120

Program Description

The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School's faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.

Students majoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University's program.

Admission Requirements

Admission to the Bachelor of Music degree program requires the recommendation of the student's major applied instructor, a 3.0 GPA in music courses, and approval of the applied area based upon a successful audition. Admission criteria and audition instructions may be obtained from the Music Department Office.

Each area of concentration has unique course requirements. Students interested in a BM degree should discuss the details of the program with a faculty advisor in the Music Department.

Grade 'C-' or better required in all courses applied to the major.

General Requirements

The following are required for the Bachelor of Arts and Bachelor of Music degree programs:

Performance Evaluation: Upon entering the music major, each student is required to:

1. declare his/her major performance medium (instrument or voice);
2. perform an entering placement audition before the appropriate applied faculty; and
3. continue the development of his/her performance ability through regular study in accordance with Departmental requirements.

This development in performance is demonstrated at end-of-semester auditions before the applied music faculty. See applied music numbers for appropriate courses.

Soloist: Each student in the BA program of sophomore standing or above should appear as a soloist in at least one student recital or repertoire class each semester. Students in the BM program must do either a repertoire class performance or one student recital each semester.

Ensemble: As an ensemble experience, each student must participate in at least one large performing ensemble each semester. The following groups meet this requirement: symphonic band, concert band, marching band, opera workshop, orchestra, concert choir, or University chorus. Assignment to the performing ensemble(s) is to be made in consultation with the music major advisor and by audition. A MUSC 142 series course is the appropriate course in which to register.

Piano: All undergraduate students majoring in music must have basic facility in piano to graduate from the University. For students other than keyboard majors, completion of MUSC 14D meets this requirement.

Attendance/concerts-recitals: Each music major is required to attend a minimum of ten concerts and/or recitals each semester. Attendance is monitored electronically. Students may choose to earn academic credit for this requirement by enrolling in MUSC 100A as an elective.

Teacher Preparation: Teaching credential candidates must also complete the Professional Education Program in addition to the BM Music Education requirements. See the College of Education section of this

catalog for admission procedures and consult the department credential advisor for details.

Marching Band: Wind and percussion majors who are credential candidates must include at least one semester of marching band (MUSC 142M) as their Large Performance Ensemble experience.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (26 Units)		
MUSC 3	MIDI Sequencing and Notation	2
MUSC 9	Music In World Cultures [1]	3
MUSC 10A	Survey of Music Literature I [1]	3
MUSC 10B	Survey of Music Literature II [1]	3
MUSC 10C	Survey of Music Literature III	3
MUSC 11A	Music Theory I	2
MUSC 11B	Music Theory II	2
MUSC 11C	Music Theory III	2
MUSC 12A	Musicianship I	2
MUSC 12B	Musicianship II	2
MUSC 12C	Musicianship III	2
Required Upper Division Core Courses (15 Units)		
MUSC 104	Contemporary Music Theory and Musicianship	3
MUSC 109	Instrumentation and Arranging	3
MUSC 110	Research in Music History [1]	3
MUSC 142 series course [2]		4
MUSC 151	Fundamentals of Conducting	2
Additional Requirements for Concentrations (30-35 Units)		
Select one of the following six areas of concentration:		30 - 35
Instrumental		
Jazz Studies or Jazz Studies with Music Education Emphasis		
Keyboard		
Music Education		
Theory/Composition		
Voice		
Total Units		71-76

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] A course from the MUSC 142 series must be taken 4 times for a total of 4 units; each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level.

Concentration in Keyboard (31 units)

Code	Title	Units
Select one of the following sets:		8
MUSC 32A & MUSC 32B	Piano: Intermediate Piano: Intermediate - BM [1]	
MUSC 35A & MUSC 35B	Harpsichord/Organ: Intermediate Harpsichord/Organ: Intermediate - BM [1]	
Select one of the following sets:		8
MUSC 132A & MUSC 132B	Piano: Advanced Piano: Advanced - BM [1]	
MUSC 135A & MUSC 135B	Harpsichord/Organ: Advanced Harpsichord/Organ: Advanced- BM [1]	
MUSC 141A	Piano Chamber Music	2
MUSC 141B	Piano Chamber Music	2
MUSC 172 series course [2]		4
MUSC 173A	Vocal Accompanying	2
MUSC 175	Junior Recital	1
MUSC 176	Piano Pedagogy	2
MUSC 185	Senior Recital	2
Total Units		31

[1] **All BM keyboard majors**, regardless of their unit load, shall be enrolled each semester in Applied Music for 2 units (until they have reached the maximum of 16 units), and in a Large Performance Ensemble until the Senior Recital is completed. Each music major is required to attend a minimum of 10 concerts and/or recitals each semester.

[2] Course must be repeated four times for a total of 4 units.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6 Units)		
C1 - Arts [2]		0
C2 - Humanities		3
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Bachelor of Music (Music Education)

Units required for Major: 71-76, including units for concentration (see below)
Total units required for BM: 120

Program Description

The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School's faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.

Students majoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University's program.

Admission Requirements

Admission to the Bachelor of Music degree program requires the recommendation of the student's major applied instructor, a 3.0 GPA in music courses, and approval of the applied area based upon a successful audition. Admission criteria and audition instructions may be obtained from the Music Department Office.

Each area of concentration has unique course requirements. Students interested in a BM degree should discuss the details of the program with a faculty advisor in the Music Department.

Grade 'C-' or better required in all courses applied to the major.

General Requirements

The following are required for the Bachelor of Arts and Bachelor of Music degree programs:

Performance Evaluation: Upon entering the music major, each student is required to:

1. declare his/her major performance medium (instrument or voice);
2. perform an entering placement audition before the appropriate applied faculty; and
3. continue the development of his/her performance ability through regular study in accordance with Departmental requirements.

This development in performance is demonstrated at end-of-semester auditions before the applied music faculty. See applied music numbers for appropriate courses.

Soloist: Each student in the BA program of sophomore standing or above should appear as a soloist in at least one student recital or repertoire class each semester. Students in the BM program must do either a repertoire class performance or one student recital each semester.

Ensemble: As an ensemble experience, each student must participate in at least one large performing ensemble each semester. The following groups meet this requirement: symphonic band, concert band, marching band, opera workshop, orchestra, concert choir, or University chorus. Assignment to the performing ensemble(s) is to be made in consultation with the music major advisor and by audition. A MUSC 142 series course is the appropriate course in which to register.

Piano: All undergraduate students majoring in music must have basic facility in piano to graduate from the University. For students other than keyboard majors, completion of MUSC 14D meets this requirement.

Attendance/concerts-recitals: Each music major is required to attend a minimum of ten concerts and/or recitals each semester. Attendance is monitored electronically. Students may choose to earn academic credit for this requirement by enrolling in MUSC 100A as an elective.

Teacher Preparation: Teaching credential candidates must also complete the Professional Education Program in addition to the BM Music Education requirements. See the College of Education section of this

catalog for admission procedures and consult the department credential advisor for details.

Marching Band: Wind and percussion majors who are credential candidates must include at least one semester of marching band (MUSC 142M) as their Large Performance Ensemble experience.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (26 Units)		
MUSC 3	MIDI Sequencing and Notation	2
MUSC 9	Music In World Cultures [1]	3
MUSC 10A	Survey of Music Literature I [1]	3
MUSC 10B	Survey of Music Literature II [1]	3
MUSC 10C	Survey of Music Literature III	3
MUSC 11A	Music Theory I	2
MUSC 11B	Music Theory II	2
MUSC 11C	Music Theory III	2
MUSC 12A	Musicianship I	2
MUSC 12B	Musicianship II	2
MUSC 12C	Musicianship III	2
Required Upper Division Core Courses (15 Units)		
MUSC 104	Contemporary Music Theory and Musicianship	3
MUSC 109	Instrumentation and Arranging	3
MUSC 110	Research in Music History [1]	3
MUSC 142 series course [2]		4
MUSC 151	Fundamentals of Conducting	2
Additional Requirements for Concentrations (30-35 Units)		
Select one of the following six areas of concentration:		30 - 35
Instrumental		
Jazz Studies or Jazz Studies with Music Education Emphasis		
Keyboard		
Music Education		
Theory/Composition		
Voice		
Total Units		71-76

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] A course from the MUSC 142 series must be taken 4 times for a total of 4 units; each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level. **Students enrolled in Applied Voice as their major instrument:** A minimum of 8 semesters of MUSC 142 in a choral ensemble (MUSC 142C or 142U, placement based on audition with the Director) is required. Transfer students in Voice may receive up to 2 semesters of credit toward this requirement from another institution upon approval from the Director of Choral Activities.

Concentration in Music Education (34 units)

Code	Title	Units
MUSC 14D	Basic Piano for Majors	1
MUSC 40 series course [1]		4
Select 4 units of applied music: Intermediate		4
Select 4 units of applied music: Advanced		4
MUSC 130	Pedagogy of Music Theory and Musicianship	3
MUSC 142 series course [1]		4
MUSC 153	Advanced Choral Conducting	2
or MUSC 154	Advanced Instrumental Conducting	
MUSC 161	Jazz Pedagogy	2
MUSC 162	Foundations of Music Education	2
MUSC 164	Music in General Education	2
MUSC 178	Vocal Literature and Materials (Grades 4-12)	3
MUSC 179	Instrumental Literature and Materials	2
MUSC 185E	Senior Recital Music Education	1
Total Units		34

[1] Course must be repeated four times for a total of 4 units. Each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level. **Students enrolled in Applied Voice as their major instrument:** A minimum of 8 semesters of MUSC 142 in a choral ensemble (MUSC 142C or 142U, placement based on audition with the Director) is required. Transfer students in Voice may receive up to 2 semesters of credit toward this requirement from another institution upon approval from the Director of Choral Activities.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6 Units)		
C1 - Arts [2]		0
C2 - Humanities		3
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Bachelor of Music (Theory/Composition)

Units required for Major: 71-76, including units for concentration (see below)
Total units required for BM: 120

Program Description

The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School's faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.

Students majoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University's program.

Admission Requirements

Admission to the Bachelor of Music degree program requires the recommendation of the student's major applied instructor, a 3.0 GPA in music courses, and approval of the applied area based upon a successful audition. Admission criteria and audition instructions may be obtained from the Music Department Office.

Each area of concentration has unique course requirements. Students interested in a BM degree should discuss the details of the program with a faculty advisor in the Music Department.

Grade 'C-' or better required in all courses applied to the major.

General Requirements

The following are required for the Bachelor of Arts and Bachelor of Music degree programs:

Performance Evaluation: Upon entering the music major, each student is required to:

1. declare his/her major performance medium (instrument or voice);
2. perform an entering placement audition before the appropriate applied faculty; and
3. continue the development of his/her performance ability through regular study in accordance with Departmental requirements.

This development in performance is demonstrated at end-of-semester auditions before the applied music faculty. See applied music numbers for appropriate courses.

Soloist: Each student in the BA program of sophomore standing or above should appear as a soloist in at least one student recital or repertoire class each semester. Students in the BM program must do either a repertoire class performance or one student recital each semester.

Ensemble: As an ensemble experience, each student must participate in at least one large performing ensemble each semester. The following groups meet this requirement: symphonic band, concert band, marching band, opera workshop, orchestra, concert choir, or University chorus. Assignment to the performing ensemble(s) is to be made in consultation with the music major advisor and by audition. A MUSC 142 series course is the appropriate course in which to register.

Piano: All undergraduate students majoring in music must have basic facility in piano to graduate from the University. For students other than keyboard majors, completion of MUSC 14D meets this requirement.

Attendance/concerts-recitals: Each music major is required to attend a minimum of ten concerts and/or recitals each semester. Attendance is monitored electronically. Students may choose to earn academic credit for this requirement by enrolling in MUSC 100A as an elective.

Teacher Preparation: Teaching credential candidates must also complete the Professional Education Program in addition to the BM Music Education requirements. See the College of Education section of this

catalog for admission procedures and consult the department credential advisor for details.

Marching Band: Wind and percussion majors who are credential candidates must include at least one semester of marching band (MUSC 142M) as their Large Performance Ensemble experience.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (26 Units)		
MUSC 3	MIDI Sequencing and Notation	2
MUSC 9	Music In World Cultures [1]	3
MUSC 11A	Music Theory I	2
MUSC 11B	Music Theory II	2
MUSC 11C	Music Theory III	2
MUSC 12A	Musicianship I	2
MUSC 12B	Musicianship II	2
MUSC 12C	Musicianship III	2
MUSC 10A	Survey of Music Literature I [1]	3
MUSC 10B	Survey of Music Literature II [1]	3
MUSC 10C	Survey of Music Literature III	3
Required Upper Division Core Courses (15 Units)		
MUSC 104	Contemporary Music Theory and Musicianship	3
MUSC 109	Instrumentation and Arranging	3
MUSC 110	Research in Music History [1]	3
MUSC 142 series course [2]		4
MUSC 151	Fundamentals of Conducting	2
Additional Requirements for Concentrations (30-35 Units)		
Select one of the following six areas of concentration:		30 - 35
Instrumental		
Jazz Studies or Jazz Studies with Music Education Emphasis		
Keyboard		
Music Education		
Theory/Composition		
Voice		

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. A course from the MUSC 142 series must be taken 4 times for a total of 4 units; each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level.

Concentration in Theory/Composition (32 units)

Code	Title	Units
MUSC 14D	Basic Piano for Majors	1
Select 4 units of applied intermediate music [1, 2]		4
MUSC 42	Introductory Composition	2
MUSC 107 series course [3]		8
Select 2 units of applied advanced music [1, 2]		2
MUSC 130	Pedagogy of Music Theory and Musicianship	3
MUSC 142 series course [4]		4
MUSC 180 series course [5]		4
MUSC 183	Digital Synthesis and Sampling	2
MUSC 185	Senior Recital	2
Total Units		32

1. **All BM theory/composition majors**, regardless of their unit load, shall be enrolled each semester in Applied Music for 1 unit (until they have reached the maximum of 8 units), and in a Large Performance Ensemble until the Senior Recital is completed. Each music major is required to attend a minimum of 10 concerts and/or recitals each semester.
2. See faculty advisor.
3. Course must be repeated four times for a total of 8 units.
4. Course must be repeated four times for a total of 4 units. Each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level.
5. Course must be repeated two times for a total of 4 units.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6 Units)		
C1 - Arts [2]		0
C2 - Humanities		3
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Bachelor of Music (Voice)

Units required for Major: 71-76, including units for concentration (see below)
Total units required for BM: 120

Program Description

The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School's faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.

Students majoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University's program.

Admission Requirements

Admission to the Bachelor of Music degree program requires the recommendation of the student's major applied instructor, a 3.0 GPA in music courses, and approval of the applied area based upon a successful audition. Admission criteria and audition instructions may be obtained from the Music Department Office.

Each area of concentration has unique course requirements. Students interested in a BM degree should discuss the details of the program with a faculty advisor in the Music Department.

Grade 'C-' or better required in all courses applied to the major.

General Requirements

The following are required for the Bachelor of Arts and Bachelor of Music degree programs:

Performance Evaluation: Upon entering the music major, each student is required to:

1. declare his/her major performance medium (instrument or voice);
2. perform an entering placement audition before the appropriate applied faculty; and
3. continue the development of his/her performance ability through regular study in accordance with Departmental requirements.

This development in performance is demonstrated at end-of-semester auditions before the applied music faculty. See applied music numbers for appropriate courses.

Soloist: Each student in the BA program of sophomore standing or above should appear as a soloist in at least one student recital or repertoire class each semester. Students in the BM program must do either a repertoire class performance or one student recital each semester.

Ensemble: As an ensemble experience, each student must participate in at least one large performing ensemble each semester. The following groups meet this requirement: symphonic band, concert band, marching band, opera workshop, orchestra, concert choir, or University chorus. Assignment to the performing ensemble(s) is to be made in consultation with the music major advisor and by audition. A MUSC 142 series course is the appropriate course in which to register.

Piano: All undergraduate students majoring in music must have basic facility in piano to graduate from the University. For students other than keyboard majors, completion of MUSC 14D meets this requirement.

Attendance/concerts-recitals: Each music major is required to attend a minimum of ten concerts and/or recitals each semester. Attendance is monitored electronically. Students may choose to earn academic credit for this requirement by enrolling in MUSC 100A as an elective.

Teacher Preparation: Teaching credential candidates must also complete the Professional Education Program in addition to the BM Music Education requirements. See the College of Education section of this

catalog for admission procedures and consult the department credential advisor for details.

Marching Band: Wind and percussion majors who are credential candidates must include at least one semester of marching band (MUSC 142M) as their Large Performance Ensemble experience.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (26 Units)		
MUSC 3	MIDI Sequencing and Notation	2
MUSC 9	Music In World Cultures [1]	3
MUSC 10A	Survey of Music Literature I [1]	3
MUSC 10B	Survey of Music Literature II [1]	3
MUSC 10C	Survey of Music Literature III	3
MUSC 11A	Music Theory I	2
MUSC 11B	Music Theory II	2
MUSC 11C	Music Theory III	2
MUSC 12A	Musicianship I	2
MUSC 12B	Musicianship II	2
MUSC 12C	Musicianship III	2
Required Upper Division Core Courses (15 Units)		
MUSC 104	Contemporary Music Theory and Musicianship	3
MUSC 109	Instrumentation and Arranging	3
MUSC 110	Research in Music History [1]	3
MUSC 142 series course [2]		4
MUSC 151	Fundamentals of Conducting	2
Additional Requirements for Concentrations (30-35 Units)		
Select one of the following six areas of concentration:		30 - 35
Instrumental		
Jazz Studies or Jazz Studies with Music Education Emphasis		
Keyboard		
Music Education		
Theory/Composition		
Voice		
Total Units		71-76

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] A course from the MUSC 142 series must be taken 4 times for a total of 4 units; each student is assigned to a specific MUSC 142 series course each semester as appropriate for their instrument/voice type and skill level. For students enrolled in 'Concentration: Voice,' a minimum of 8 semesters of MUSC 142 in a choral ensemble (MUSC 142C or 142U, placement based on audition with the Director) is required for degree completion. Transfer students in Voice may receive up to 2 semesters of credit toward this requirement from another institution upon approval from the Director of Choral Activities.

Concentration in Voice (33 units)

Code	Title	Units
MUSC 14D	Basic Piano for Majors	1
MUSC 37 series course [3]		8
MUSC 136A	Diction For Singers	3
MUSC 137 series course [3]		8
MUSC 142 series course [4]		4
MUSC 153	Advanced Choral Conducting	2
MUSC 172 series course [4]		4
MUSC 175	Junior Recital	1
MUSC 185	Senior Recital	2
Total Units		33

[3] Course must be repeated eight times for a total of 8 units.

[4] Course must be repeated four times for a total of 4 units. A minimum of 8 semesters of MUSC 142 in a choral ensemble (MUSC 142C or 142U, placement based on audition with the Director) is required for degree completion. Transfer students may receive up to 2 semesters of credit toward this requirement from another institution upon approval from the Director of Choral Activities.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6 Units)		
C1 - Arts [2]		0
C2 - Humanities		3
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Master of Music (Composition)

Total Units required for the MM: 30, chosen in consultation with a School of Music graduate advisor

Program Description

The graduate program leading to the Master of Music degree is designed to provide opportunities for a variety of advanced studies in music. The objective of the program is to produce a graduate student skilled in research, able in organizational and writing skills, and imaginative in developing new approaches and concepts: a student who, with a broad knowledge of the history and literature of music, is able to use this knowledge with effective musicality as a performer or conductor.

The MM may be earned with either an academic or a performance emphasis. The program will effectively prepare students for continuation into doctoral study. Students may focus their studies in one of three areas: **Conducting, Composition, Performance**.

Admission Requirements

Applicants to the graduate program in Music must meet the following requirements:

- a baccalaureate degree with a music major**;**
- a minimum 3.0 GPA in the last 60 units; and
- successful audition or composition portfolio review (see the School of Music website (http://www.csus.edu/music/) for audition information).

Fully classified graduate status is granted after successful completion of nine units of graduate work. The student must file for a change in status, using a form available from the Music Department's Graduate Coordinator.

Admission Procedures

Applications are accepted as long as room for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies (http://www.csus.edu/gradstudies/):

- an application for admission;
- once set of official transcripts from all colleges and universities attended (other than Sacramento State); and
- two letters of reference.

For more admissions information and application deadlines please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*).*

After receipt of all items listed above, a decision regarding admission will be emailed to the applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MM: 30, chosen in consultation with a Music Department graduate advisor
Minimum Cumulative GPA: 3.0. Majors must complete each required course with a grade 'C-' or better.

Optional Support Field

From 3 to 5 units in fields other than Music may apply toward the degree with approval of the Music Department graduate committee. Students should have at least 10 upper division units in this field as preparation. Normally the supporting field units are on the graduate level. Supporting fields currently approved for music majors are Education, Humanities and Religious Studies, Modern Languages, and Theatre Arts. In the case of Music Education, courses which are part of the credential requirements may not be included.

Advancement to Candidacy

Each fully classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the student has:

- completed approximately 15 units of graduate study, including MUSC 201 and two other 200-level courses, with a minimum of 3.0 GPA;
- received approval from supervising faculty to enter courses leading to MUSC 500, Culminating Experience (see *Graduate Studies Handbook* for details);
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within

the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. Instructions are found in Part II of the *Graduate Studies Handbook*.

Program Requirements

Code	Title	Units
Core Requirements (15 Units)		
MUSC 201	Introduction to Graduate Study	3
MUSC 206	Topics in Music History [1,2]	3
MUSC 207	Topics in Music Analysis	3
MUSC 211	Graduate Music Theory	3
MUSC 500	Culminating Experience	3
Additional Requirements for Concentrations (15 Units)		
Select one of the following concentrations:		15
Conducting		
Composition		
Performance		
Total Units		30

1. Prerequisite: Undergraduate major in music or instructor permission.
2. Seminar addresses a different topic each semester. With the approval of the student's advisor, the course may be repeated for credit with a different topic. The Director of the School of Music ensures that varied topics are offered for students repeating the course for credit.

Concentration in Composition (15 units)

Code	Title	Units
MUSC 210	Composition [1]	8
Select 7 units of electives [2]		7
Total Units		15

1. Course must be repeated **four** times for a total of 8 units.
2. Electives must be approved by a School of Music Graduate Advisor.

Master of Music (Conducting)

Total units required for the MM: 30, chosen in consultation with a School of Music graduate advisor

Program Description

The graduate program leading to the Master of Music degree is designed to provide opportunities for a variety of advanced studies in music. The objective of the program is to produce a graduate student skilled in research, able in organizational and writing skills, and imaginative in developing new approaches and concepts: a student who, with a broad knowledge of the history and literature of music, is able to use this knowledge with effective musicality as a performer or conductor.

The MM may be earned with either an academic or a performance emphasis. The program will effectively prepare students for continuation into doctoral study. Students may focus their studies in one of three areas: **Conducting, Composition, Performance**.

Admission Requirements

Applicants to the graduate program in Music must meet the following requirements:

- a baccalaureate degree with a music major**;**
- a minimum 3.0 GPA in the last 60 units; and
- successful audition or composition portfolio review (see the School of Music website (http://www.csus.edu/music/) for audition information).

Fully classified graduate status is granted after successful completion of nine units of graduate work. The student must file for a change in status, using a form available from the Music Department's Graduate Coordinator.

Admission Procedures

Applications are accepted as long as room for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies (http://www.csus.edu/gradstudies/):

- an application for admission;
- once set of official transcripts from all colleges and universities attended (other than Sacramento State); and
- two letters of reference.

For more admissions information and application deadlines please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*)*.

After receipt of all items listed above, a decision regarding admission will be emailed to the applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MM: 30, chosen in consultation with a Music Department graduate advisor
Minimum Cumulative GPA: 3.0. Majors must complete each required course with a grade 'C-' or better.

Optional Support Field

From 3 to 5 units in fields other than Music may apply toward the degree with approval of the Music Department graduate committee. Students should have at least 10 upper division units in this field as preparation. Normally the supporting field units are on the graduate level. Supporting fields currently approved for music majors are Education, Humanities and Religious Studies, Modern Languages, and Theatre Arts. In the case of Music Education, courses which are part of the credential requirements may not be included.

Advancement to Candidacy

Each fully classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the student has:

- completed approximately 15 units of graduate study, including MUSC 201 and two other 200-level courses, with a minimum of 3.0 GPA;
- received approval from supervising faculty to enter courses leading to MUSC 500, Culminating Experience (see *Graduate Studies Handbook* for details);

- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. Instructions are found in Part II of the *Graduate Studies Handbook*.

Program Requirements

Code	Title	Units
Core Requirements (15 Units)		
MUSC 201	Introduction to Graduate Study	3
MUSC 206	Topics in Music History [1,2]	3
MUSC 207	Topics in Music Analysis	3
MUSC 211	Graduate Music Theory	3
MUSC 500	Culminating Experience	3
Additional Requirements for Concentrations (15 Units)		
Select one of the following concentrations:		15
Conducting		
Composition		
Performance		
Total Units		30

[1] Prerequisite: undergraduate major in music or instructor permission.

[2] Seminar addresses a different topic each semester. With the approval of the student's advisor, the course may be repeated for credit with a different topic. The Director of the School of Music ensures that varied topics are offered for students repeating the course for credit.

Concentration in Conducting (15 units)

Code	Title	Units
MUSC 217 Series -- Graduate Applied Music		4
MUSC 218 Series -- Conducting Techniques		4
MUSC 285	Graduate Recital	2
Select 5 units of electives [1]		5
Total Units		15

[1] Electives must be approved by a School of Music graduate advisor.

Master of Music (Performance)

Total units required for the MM: 30, chosen in consultation with a School of Music graduate advisor

Program Description

The graduate program leading to the Master of Music degree is designed to provide opportunities for a variety of advanced studies in music. The objective of the program is to produce a graduate student skilled in research, able in organizational and writing skills, and imaginative in developing new approaches and concepts: a student who, with a broad knowledge of the history and literature of music, is able to use this knowledge with effective musicality as a performer or conductor.

The MM may be earned with either an academic or a performance emphasis. The program will effectively prepare students for continuation into doctoral study. Students may focus their studies in one of three areas: **Conducting, Composition, Performance**.

Admission Requirements

Applicants to the graduate program in Music must meet the following requirements:

- a baccalaureate degree with a music major**;**
- a minimum 3.0 GPA in the last 60 units; and
- successful audition or composition portfolio review (see the School of Music website (http://www.csus.edu/music/) for audition information).

Fully classified graduate status is granted after successful completion of nine units of graduate work. The student must file for a change in status, using a form available from the Music Department's Graduate Coordinator.

Admission Procedures

Applications are accepted as long as room for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies (http://www.csus.edu/gradstudies/):

- an application for admission;
- once set of official transcripts from all colleges and universities attended (other than Sacramento State); and
- two letters of reference.

For more admissions information and application deadlines please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*)*.

After receipt of all items listed above, a decision regarding admission will be emailed to the applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MM: 30, chosen in consultation with a Music Department graduate advisor
Minimum Cumulative GPA: 3.0. Majors must complete each required course with a grade 'C-' or better.

Optional Support Field

From 3 to 5 units in fields other than Music may apply toward the degree with approval of the Music Department graduate committee. Students should have at least 10 upper division units in this field as preparation. Normally the supporting field units are on the graduate level. Supporting fields currently approved for music majors are Education, Humanities and Religious Studies, Modern Languages, and Theatre Arts. In the case of Music Education, courses which are part of the credential requirements may not be included.

Advancement to Candidacy

Each fully classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the student has:

- completed approximately 15 units of graduate study, including MUSC 201 and two other 200-level courses, with a minimum of 3.0 GPA;

- received approval from supervising faculty to enter courses leading to MUSC 500, Culminating Experience (see *Graduate Studies Handbook* for details);
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. Instructions are found in Part II of the *Graduate Studies Handbook*.

Program Requirements

Code	Title	Units
Core Requirements (15 Units)		
MUSC 201	Introduction to Graduate Study	3
MUSC 206	Topics in Music History [1,2]	3
MUSC 207	Topics in Music Analysis	3
MUSC 211	Graduate Music Theory	3
MUSC 500	Culminating Experience	3
Additional Requirements for Concentrations (15 Units)		
Select one of the following concentrations:		15
Conducting		
Composition		
Performance		
Total Units		30

[1] Undergraduate major in Music or instructor permission. May be repeated with different topics.

[2] Seminar addresses a different topic each semester. With the approval of the student's advisor, the course may be repeated for credit with a different topic. The Director of the School of Music ensures that varied topics are offered for students repeating the course for credit.

Concentration in Performance (15 units)

Code	Title	Units
MUSC 219	Graduate Applied Music [1]	4
MUSC 220	Performance Techniques [1]	4
MUSC 285	Graduate Recital	2
MUSC 242	Advanced Large Performance Ensemble [2]	2
Select 3 units of electives [3]		3
Total Units		15

[1] Course must be repeated **four** times for a total of 4 units.

[2] Course must be repeated **twice** for a total of 2 units.

[3] Electives must be approved by a School of Music Graduate Advisor.

Minor in Music

Units required for the Minor: 20, including 9 units upper division.

Program Description

The fundamental purpose of the Sacramento State music curriculum is threefold:

1. to promote excellence in all aspects of music performance and academic coursework,
2. to provide basic preparation for careers in music, and
3. to promote interest in all musical and artistic endeavors at the University and in the Sacramento community.

The main emphasis of the School of Music is upon performance. Sustaining this concept is the School's faculty, which remains committed to individual and ensemble performances as a means of enhancing the teaching quality of the institution and the cultural climate of the campus and community.

Students majoring and minoring in Music are not only expected to be technically proficient in the art but are required to have broad training in the liberal arts and sciences that are the core of the University's program.

Program Requirements

Code	Title	Units
Theory (6 Units)		
Select two or three courses from the following:		6
MUSC 3	MIDI Sequencing and Notation	
MUSC 4	Elements Of Music	
MUSC 11A	Music Theory I	
MUSC 11B	Music Theory II	
MUSC 11C	Music Theory III	
MUSC 12A	Musicianship I	
History/Literature (9 Units)		
Select three units from each group:		9
Group 1		
MUSC 9	Music In World Cultures	
MUSC 119A	World Music: Asia	
MUSC 119B	World Music: Africa	
MUSC 119C	World Music: Latin America	
Group 2		
MUSC 10A	Survey of Music Literature I	
MUSC 10B	Survey of Music Literature II	
MUSC 10C	Survey of Music Literature III	
MUSC 18	Music Appreciation	
Group 3		
MUSC 118B	American Popular Music: Jazz History	
MUSC 118C	History of Rock Music	
MUSC 127	The American Musical Theater	
MUSC 129	American Society and Its Music	
Beginning Musical Instruction (2 Units)		
Select two units from the following:		2
MUSC 14B	Basic Piano for Majors	
MUSC 14C	Basic Piano for Majors	
MUSC 14D	Basic Piano for Majors	
MUSC 17	Voice Class	
MUSC 25	Voice For Music Theater	
MUSC 38D	Beginning Hand Drums	
MUSC 38S	Beginning Shakuhachi	
MUSC 39	Beginning Folk Guitar	
Applied Music for 2 units with departmental and area approval		

Select one of the following:		
MUSC 40 series course		
Large Ensemble Experience (3 Units)		
Select three units from the following:		3
Any MUSC 142 - Music Ensemble: Large Performance Groups		
MUSC 100A/100B	Concert Attendance	
MUSC 143J	Instrumental Jazz Ensemble	
MUSC 145	Pep Band	
Total Units		20

Students seeking supplementary authorization for single subject, standard secondary, and special secondary teaching credentials must register for one unit each of instrumental and vocal instruction in the beginning musical instruction section. Qualified students may audition for applied musical instruction as a substitution in this area.

Note: The last 3 units in performance must be taken at Sacramento State.

The Performer's Certificate

Units required for the certificate: 22

Program Description

The Performer's Certificate is a post-baccalaureate program designed for highly qualified instrumentalists, vocalists, and conductors. Exceptionally talented and dedicated performers admitted through a competitive audition will receive instruction at an advanced level and will be expected to make substantive contribution to the School of Music through participation in a Large Ensemble (LPE) or equivalent.

Admission Requirements

1. Baccalaureate Degree
2. Audition demonstrating exceptional skill in the student's area of specialization (conducting, instrumental, or voice performance)

Program Requirements

Code	Title	Units
Required Courses (22 Units)		
Select one of the following course pairs:		8
MUSC 217A & MUSC 218A	Choral Conducting Applied Music Choral Conducting Techniques	
MUSC 217B & MUSC 218B	Instrumental Conducting Applied Music Instrumental Conducting Techniques	
MUSC 219 & MUSC 220	Graduate Applied Music Performance Techniques	
MUSC 142 series course [1]		2
MUSC 144 series course [2]		2
MUSC 285	Graduate Recital	2
MUSC 285	Graduate Recital (second recital)	2
MUSC 295	Fieldwork in Music	1
MUSC 299	Special Problems	2
Select 3 units of Graduate music electives [1, 2]		3
Total Units		22

[1] May include serving as assistant to Director.

[2] May be taken during Summer/January sessions.

Philosophy

College of Arts and Letters

Program Description

The subject of philosophy encompasses such fundamental issues as the scope and limits of human knowledge, the ultimate constituents of reality, the sources of value and obligation, and the nature of logic and correct reasoning. Philosophy utilizes the findings of many other academic disciplines and, in its method, stresses clear, rigorous, impartial and systematic thought. The application of philosophical ideas to practical problems is central to the subject.

Sacramento State offers the Bachelor of Arts degree with a major in philosophy as well as a philosophy minor. Philosophy is an excellent vehicle for refining one's skills in critical reasoning and rational decision-making, making it a useful major for a wide variety of career goals. For instance, philosophy is good preparation for the study and practice of law. Philosophy majors who plan a career in teaching at the college or university level must commit themselves to a program of graduate study upon completion of the BA.

Degree Programs

BA in Philosophy (General Concentration) (p. 284)

BA in Philosophy (Ethics, Politics, and Law) (p. 282)

BA in Philosophy (Logic and Philosophy of Science) (p. 286)

BA in Philosophy (Honors) (p. 286)

Minor in Philosophy (p. 288)

Special Features

- The Philosophy Department professors are active scholars who have presented many written papers and lectures at professional conferences. They are also active in the community, giving public lectures both on and off campus. Many participate in our Future Philosophers program by giving presentations to local high schools.
- The Philosophy Department houses The Center for Practical and Professional Ethics, which is dedicated to fostering better public understanding of contemporary ethical issues from a philosophical perspective.
- Flexible major and minor requirements allow students to choose concentrations and a range of electives to fit their specific interests and career objectives. The minor is an excellent complement to a variety of majors. It is also possible to complete the minor in such a way that almost all classes satisfy GE requirements.
- Students are encouraged to take part in the Philosophy Club. Its regular meetings are designed to promote group discussions about topics of philosophical interest. Club speakers have included students, philosophy faculty, professors from other departments on campus, and professors from other universities.
- The Philosophy Department offers a Philosophy Major Honors Program for qualified students. This program provides motivated students with an opportunity to expand their philosophy education, develop their writing, pursue philosophical research, prepare for

graduate studies or law school, or enhance their career preparations. Students interested in pursuing graduate study in Philosophy are especially encouraged to participate in this program.

Career Possibilities

Law · Medicine · Public Health · Government· · Politics · Ministry · Publishing · Social Work · Education · Journalism · Business

Contact Information

Russell DiSilvestro, Department Chair
Amy Trimmer, Administrative Support Coordinator
Mendocino Hall 3000
(916) 278-6424
Department of Philosophy Website (http://www.csus.edu/phil/)

Faculty

AYALA-LOPEZ, SARAY

BELLON, CHRISTINA M.

CHOE-SMITH, CHONG

CORNER, DAVID R.

DENMAN, DAVID

DISILVESTRO, RUSSELL

DOWDEN, BRADLEY

MAYES, G. RANDOLPH

MCCORMICK, MATTHEW S.

MERLINO, SCOTT A.

MERRIAM, GARRET

SWAN, KYLE S.

PHIL 2. Ethics. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examination of the concepts of morality, obligation, human rights and the good life. Competing theories about the foundations of morality will be investigated.

PHIL 4. Critical Thinking. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Study of the basic skills of good reasoning needed for the intelligent and responsible conduct of life. Topics include: argument structure and identification, validity and strength of arguments, common fallacies of reasoning, use and abuse of language in reasoning, principles of fair play in argumentation.

PHIL 6. Introduction to Philosophy: Knowledge, World and Self. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Representative selection of philosophical problems will be explored in areas such as knowledge, reality, religion, science, politics, art and morals.

PHIL 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Students have the opportunity to interact with fellow classmates and the seminar leader to build a community of academic support and personal support.

PHIL 26. History of Philosophy. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to the history of philosophy, emphasizing such themes as the foundations of knowledge, the nature of reality, the basis of a good life and a just society, the existence of God, and the nature of self, and tracing the development of these themes from antiquity to the modern period.

PHIL 27. History of Early Modern Philosophy. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examines the major developments in Western philosophy after the Middle Ages, with emphasis on the period from Descartes to Kant. Attention will be paid to the general historical and cultural setting within which the philosophical theories developed.

PHIL 56. Research Integrity. 1 Unit
Term Typically Offered: Fall, Spring

Basic regulatory and ethical requirements for doing research. Topics covered include protection of human subjects, data management, authorship, peer review, mentoring, animal experimentation, conflict of interest, and collaborative research.
Credit/No Credit

PHIL 60. Deductive Logic I. 3 Units
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Introduction to deductive logic. Topics include: basic concepts of deductive logic; techniques of formal proof in propositional and predicate logic.

PHIL 61. Inductive Logic I. 3 Units
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Introduction to inductive logic and the problem of decision under uncertainty. Topics include: the nature of inductive rationality, philosophical theories of induction and probability, cognitive biases and common errors in inductive reasoning, and philosophical problems in defining risk, rational agency, and the expected value of an action.

PHIL 100. Ethics and Personal Values. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Moral concerns of everyday life stressing such features of moral character as right and wrong conduct, virtue and vice, the emotions, attitudes, and personal relationships. Emphasis is on analytical and critical discussion of philosophical theories and competing viewpoints.

PHIL 101. Ethics and Social Issues. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring, Summer

Moral controversies that divide society today, such as abortion, the death penalty, affirmative action, sexism, war and peace. Emphasis is on identifying the relevant values and moral principles underlying competing views and subjecting them to rational assessment.

PHIL 102. Professional and Public Service Ethics. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Prepares students planning careers in professional practice or public service to identify, understand, and resolve ethical problems. Includes examinations of (i) ethical theory, rights and duties, virtue ethics, utilitarian ethics, social contract theory, and role morality; (ii) the philosophical underpinnings of professional codes of conduct, regulations, and norms of professional and public service practices; (iii) moral reasoning and argumentation; (iv) the relation between ethical judgement and action; (v) the relation between professional practice, public service, and democratic principles.

PHIL 103. Business and Computer Ethics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Analytical treatment of controversial moral issues which emerge in the business world, e.g., affirmative action, corporate responsibility, the global economy, industry and environmental damage, social effects of advertising, the computer threat to personal privacy, ownership of computer programs. Discussion will focus on basic moral principles and concepts relevant to these issues.

PHIL 104. Bioethics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Ethical dilemmas faced by professionals and patients in the field of medicine, e.g., patient self-determination and informed consent, discrimination in health care, euthanasia, abortion, surrogate motherhood, genetic modification, and rights to health care. Emphasis is on the well-reasoned application of general moral principles to practical medical decisions.

PHIL 105. Science and Human Values. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring

Examination of the values implicit in a scientific culture and the problems that arise as a commitment to the development of scientific knowledge and technology. These problems include: distinguishing good scientific practice from bad; the intrinsic value of scientific knowledge independent of its benefits in application; the proper and improper applications of scientific knowledge.

PHIL 112. History Of Ethics. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Investigation of the main approaches to ethics in Western moral philosophy. Emphasis on Plato, Aristotle, Hume, Kant and Mill.

PHIL 115. Philosophy In Literature. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Spring only – even years

Study of selected works of fiction which focus on philosophically controversial questions, e.g., basic moral dilemmas, the meaning of life, alienation, nihilism, the existence of God.

PHIL 117. Existentialism. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only

Study of the problem of the existing individual, or inner self -- most especially the problem of choice in the context of radical freedom and finitude. Particular attention will be paid to the philosophical writings of Kierkegaard, Nietzsche, Heidegger and Sartre, through some major literary works of these figures and others (Camus, Dostoevsky) will also be considered.

PHIL 122. Political Philosophy. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A philosophical examination of the individual, the community, and rights; the conflict between individual rights and the common good; various conceptions of justice, equality, liberty and the public good; and the relationship of politics to ethics, economics, law; war and peace.

PHIL 123. Philosophy and Feminism. 3 Units
Term Typically Offered: Spring only – even years

Study of feminist perspectives on important philosophical questions. Examples of the questions treated are: mind-body dualism; reason and emotion; the fact/value distinction; the nature of the public and private realms; equal rights; and whether knowledge is intrinsically 'gendered.' Different feminist perspectives will be considered and compared with traditional approaches to these questions.

PHIL 125. Philosophy Of Science. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring, Summer

Study of the philosophical problems that arise in the sciences: the nature of scientific reasoning, the limits and styles of explanation, identifying pseudoscience, values in science, unity and diversity of the sciences, and science's impact on our world view.

PHIL 126. The Meanings Of Evolution. 3 Units
Term Typically Offered: Fall, Spring

Study of the philosophical basis of the biological sciences: the power and limits of evolution as a scientific explanation; Darwinism, its refinements, alternatives and critics; the origin and nature of life; the scope of evolution as an explanation, including critical investigations of evolutionary psychology and sociobiology.

PHIL 127. History of Ancient Philosophy. 3 Units
Prerequisite(s): 3 units in Philosophy.
Term Typically Offered: Fall, Spring

Examination of the origins of Western philosophy, with emphasis on the works of the Pre-Socratics, Plato, and Aristotle.

PHIL 128. History of Modern Philosophy. 3 Units
Prerequisite(s): 3 units in Philosophy.
Term Typically Offered: Fall, Spring

Examination of the major developments in Western philosophy after the Middle Ages with emphasis on the period from Descartes to Kant.

PHIL 131. Philosophy Of Religion. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Summer only

Introduction to philosophical theology, the philosophical study of religious assertions, arguments, and beliefs: the existence and nature of God; the rationality of religious belief; the relation of faith to reason; the problem of evil; immortality and resurrection; the possibility of miracles; the meaning of religious language. Includes both traditional and contemporary approaches.

PHIL 136. Philosophy Of Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Inquiry into the nature of art, beauty and criticism, with critical consideration of representative theories.

PHIL 145A. Chinese Philosophy. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Spring only

Survey of the major philosophical traditions of China and Japan, focusing on concepts of nature, man, society, freedom and knowledge. Special attention will be given to Confucianism, Taoism, Buddhism, and recent philosophical movements. Taught alternate semesters with PHIL 145B.

PHIL 145B. Philosophies Of India. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall only

Survey of the major schools of Indian philosophical development. The emphasis will be on the Hindu and Buddhist traditions, with consideration given to competing notions of the self, consciousness, the origin of human suffering, and the possibility of transcendence.
Note: Taught alternate semesters with PHIL 145A.

PHIL 152. Recent Ethical Theory. 3 Units
Term Typically Offered: Spring only

Major topics in ethical theory with attention to their contemporary formulation, including such topics as utilitarianism vs. rights-based theories and the dispute over the objectivity of ethics.

PHIL 153. Philosophy Of Mind. 3 Units
Prerequisite(s): 3 units in philosophy or instructor permission.
Term Typically Offered: Spring only

Rival theories of the nature of the mind and mental activity, including dualism, materialism, functionalism. Difficulties in achieving a theoretical understanding of familiar psychological concepts such as belief, sensation, emotion, intention.

PHIL 154. Philosophy Of Language. 3 Units
Term Typically Offered: Fall only

Study of philosophical issues concerning language: theories of the nature of linguistic meaning, in particular those involving the concepts of sense, reference, truth conditions, intention, convention, speech act, and force. Topics include the relation between meaning and reference to objects, and between meaning and mental processes. Emphasis on contemporary views, including views on the promise of a theory of language to shed light on fundamental philosophical problems in metaphysics and the philosophy of mind.

PHIL 155. Philosophy Of Law. 3 Units
Term Typically Offered: Spring only

Theories of the nature of law, e.g., natural law, legal positivism, legal realism. Selected controversies in contemporary law will also be studied, such as the justification of punishment, the legislation of morality, judicial activism vs. judicial restraint.

PHIL 160. Deductive Logic II. 3 Units
Prerequisite(s): CSC 28 or PHIL 60 or instructor permission.
Term Typically Offered: Spring only

Further study of deductive logic. Topics include: principles of inference for quantified predicate logic; connectives; quantifiers; relations; sets; modality; properties of formal logical systems, e.g. consistency and completeness; and interpretations of deductive systems in mathematics, science, and ordinary language.

PHIL 161. Inductive Logic II. 3 Units
Prerequisite(s): Phil 61 Inductive Logic I or instructor permission.
Term Typically Offered: Fall, Spring

Further study of inductive logic. Topics include: the nature of uncertainty, probability and inductive rationality, Bayes' Theorem, the nature of utility, expected value theory, decisions under uncertainty, game theory, strict and weak dominance, decision-theoretic paradoxes, pure and mixed strategy Nash equilibria.

PHIL 176. Twentieth Century Anglo-American Philosophy. 3 Units
Term Typically Offered: Spring only

Rise of the analytic tradition in contemporary Anglo-American philosophy represents a turn toward common sense, science, language, logic and rigor. Readings will cover the philosophical movements of common sense, logical atomism, logical positivism, ordinary language philosophy and more recent analytical philosophy.

PHIL 180. Knowledge and Understanding. 3 Units
Prerequisite(s): 6 units in philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Examines the concept of knowledge. Representative topics include: the role of sense perception and memory, the importance of certainty, the justification of belief, philosophical skepticism, the concept of truth and the nature of philosophical inquiry. Emphasis is on contemporary formulations.

PHIL 181. Metaphysics. 3 Units
Prerequisite(s): 6 units in philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Examines arguments concerning the nature of reality. Representative topics include: substance, space, time, God, free will, determinism, identity, universals. Emphasis is on contemporary formulations.

PHIL 189. Senior Seminar in Philosophy. 1 Unit
Prerequisite(s): Philosophy majors (any concentration), 21 upper-division units in Philosophy, and graduating semester; or instructor permission.
Corequisite(s): Philosophy major (any concentration) and graduating semester; or instructor permission.
Term Typically Offered: Fall, Spring

A required capstone experience in the philosophy major. The course involves: completion of a senior essay under direction of a faculty member; preparation for knowledge and skills examination; submission of written critiques for three public events in philosophy; completion of departmental assessment questionnaire.

PHIL 190. Selected Philosophers. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

An examination of the works of one or more important philosophers in different philosophical areas such as ethics, political philosophy, metaphysics, logic and epistemology.
Note: This course can be repeated for credit once if the second iteration focuses on a different philosopher than the first

PHIL 192B. Topics in Bioethics. 3 Units
Prerequisite(s): 6 units of Philosophy or instructor permission
Term Typically Offered: Fall, Spring

Advanced in-depth study of an ethical dilemma faced by professionals and patients in the field of medicine, such as patient self-determination and informed consent, discrimination in health care, euthanasia, abortion, surrogate motherhood, genetic modification, or rights of health care.

PHIL 192D. Space and Time. 3 Units
Prerequisite(s): 6 units in philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to significant philosophical issues involving space and time. An investigation into the current state of these issues.
Note: No background or work in mathematics or physics is required. Cross-listed: HRS 205; only one may be counted for credit.

PHIL 192E. Topics in Epistemology. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Topics include: the nature of inquiry, knowledge, explanation, understanding, rationality, judgment, and decision.
Note: This course can be repeated for credit once if the second iteration focuses on a different specific topic within Epistemology.

PHIL 192F. Topics in Ethics. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Topics include: animal rights, abortion, euthanasia and assisted suicide, poverty, race, gender, same-sex marriage, war and humanitarian intervention, environmental ethics, ethics of science or technology, and other advanced topics in bioethics.
Note: This course can be repeated once for credit if the second iteration focuses on a different specific topic within Ethics

PHIL 192L. Topics in Philosophy Language. 3 Units
Prerequisite(s): 6 units in philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Advanced topics in the philosophy of language. Topics may include: sense and reference, meaning and force, intentions vs. conventions, conditions for sameness of sense, conditions for successful reference, propositional content, indexical and demonstrative reference, and the semantics of propositional attitude and perceptual reports, linguistic pragmatics.

PHIL 192M. Topics in Philosophy of Mind. 3 Units
Prerequisite(s): 6 units in philosophy or instructor permission.
Topics in Philosophy of Mind. Topics may include: Artificial Intelligence; Qualia; functionalism; philosophy of neuroscience; property dualism; eliminative materialism; or specific theories of consciousness. Emphasis is on contemporary formulations.

PHIL 192O. Topics in Contemporary Metaphysics. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission
Term Typically Offered: Fall, Spring

Contemporary topics in metaphysics. Topics may include: Ontology; realism and anti-realism; universals; individuals; substance; identity through time and change; kinds and degrees of necessity; physicalism; moral realism; realism regarding social entities. Emphasis is on contemporary formulations.

PHIL 192P. Topics in Social and Political Philosophy. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Topics include: specific theories such as anarchism, libertarianism, and contractualism; feminist theories; critical race theory; philosophy of education; and other concepts such as authority, justice, rights, equality, and freedom.
Note: This course can be repeated for credit once if the second iteration focuses on a different specific topic within Social and Political Philosophy.

PHIL 192R. Topics in Philosophy of Religion. 3 Units
Prerequisite(s): 6 units of Philosophy or instructor permission
Topics may include: The problem of evil, atheism, modal arguments for God's existence, design arguments for God's existence, reformed epistemology, recent work in natural theology, divine hiddenness, skeptical theism, or Molinism. Emphasis is on contemporary formulations.

PHIL 192S. Topics in Philosophy of Science. 3 Units
Prerequisite(s): 6 units of Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Topics include: Issues in the epistemology and ontology of science; special problems in the philosophy of mathematics, physics, chemistry, cognitive science, and biology; naturalistic and non naturalistic approaches to understanding scientific inquiry.
Note: This course can be repeated for credit once if the second iteration focuses on a different specific topic within the Philosophy of Science

PHIL 192T. Topics in Philosophy of Social Science. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Topics include: the ontology of social kinds, social construction, individualism vs. structuralism, philosophy of economics, explanations of social injustice, critical theory, methodology of social sciences, and categorization and measurement in the social sciences.
Note: This course can be repeated for credit once if the second iteration focuses on a different specific topic within the Philosophy of Social Science.

PHIL 195. Philosophy Internship. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised work experience in an approved office or organization where significant philosophical issues are raised. The student must write regular reports on these issues. Supervision is provided by the faculty instructor and a managing official in the work situation. Open to majors only.
Credit/No Credit

PHIL 196. Experimental Offerings in Philosophy. 3 Units
Term Typically Offered: Fall, Spring

Experimental offerings will be scheduled as needed.

PHIL 197. Honors Thesis. 1 Unit
Prerequisite(s): Admission into Philosophy Department Honors Concentration.
Term Typically Offered: Fall, Spring

Capstone seminar for Honors Program students in Philosophy major. Student will propose, research, write, and present an honors thesis; student will also provide comments and criticism of other honors theses.

PHIL 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Special projects calling for independent philosophical investigation under the supervision of an individual faculty member.
Note: Requires prior approval of the faculty member under whom work is to be conducted.

Credit/No Credit

PHIL 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Special projects calling for independent philosophical investigation under the supervision of an individual faculty member.
Note: Requires graduate status and prior approval of the faculty member under whom work is to be conducted.

Credit/No Credit

BA in Philosophy (Ethics, Politics, and Law)

Units required for Major: 40-43
Total units required for BA: 120

Program Description

The concentration in Ethics, Politics, and Law is designed as a preparation for the study of law as well as for advanced professional study in applied ethics. It is also intended to give undergraduates a foundation in rational decision-making, embodying the conviction that such an intellectual capacity has broad application.

The concentration gives students an understanding of the theories behind moral and legal principles as well as training in the process of decision-making applying those principles. Students will be called upon to make decisions in particular cases; state the facts impartially; convey their decisions and their reasoning cogently and persuasively; and justify their decisions by showing how they are both a reasonable consequence of those principles and not overturned by overriding conflicting principles. There will be a particular emphasis on clear and effective writing.

Program Requirements

Code	Title	Units
Required Lower Division Courses (6 Units)		
PHIL 60	Deductive Logic I	3
or PHIL 61	Inductive Logic I	
One of the following may be counted toward the major requirements		3
PHIL 2	Ethics [1]	

PHIL 4	Critical Thinking	
PHIL 6	Introduction to Philosophy: Knowledge, World and Self [1]	
PHIL 26	History of Philosophy [1]	
Required Upper Division Courses (13 Units)		
PHIL 127	History of Ancient Philosophy	3
PHIL 128	History of Modern Philosophy	3
PHIL 180	Knowledge and Understanding	3
PHIL 181	Metaphysics	3
PHIL 189	Senior Seminar in Philosophy	1
Additional Required Upper Division Courses (3 Units)		
Select one of the following:		3
PHIL 153	Philosophy Of Mind	
PHIL 154	Philosophy Of Language	
PHIL 160	Deductive Logic II	
PHIL 176	Twentieth Century Anglo-American Philosophy	
Ethics (18 Units)		
Theory		
PHIL 112	History Of Ethics [1]	3
PHIL 122	Political Philosophy	3
PHIL 152	Recent Ethical Theory	3
PHIL 155	Philosophy Of Law	3
Practice		
Select two of the following:		6
PHIL 100	Ethics and Personal Values	
PHIL 101	Ethics and Social Issues [1]	
PHIL 102	Professional and Public Service Ethics	
PHIL 103	Business and Computer Ethics [1]	
PHIL 104	Bioethics [1]	
Seminar (3 Units)		
Select one of the following:		3
PHIL 190 series course		
PHIL 192 course		
Total Units		43

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Note: Philosophy majors must fulfill the GE Writing Intensive 'supervenient requirement' with courses **in the major, only**.

Elective List

Code	Title	Units
PHIL 100	Ethics and Personal Values	3
PHIL 101	Ethics and Social Issues [1]	3
PHIL 102	Professional and Public Service Ethics	3
PHIL 103	Business and Computer Ethics [1]	3
PHIL 104	Bioethics [1]	3
PHIL 105	Science and Human Values [1]	3
PHIL 115	Philosophy In Literature	3
PHIL 117	Existentialism	3
PHIL 123	Philosophy and Feminism	3
PHIL 125	Philosophy Of Science	3
PHIL 126	The Meanings Of Evolution	3
PHIL 131	Philosophy Of Religion	3
PHIL 136	Philosophy Of Art	3
PHIL 145A	Chinese Philosophy	3
PHIL 145B	Philosophies Of India	3
PHIL 152	Recent Ethical Theory	3
PHIL 153	Philosophy Of Mind	3
PHIL 154	Philosophy Of Language	3
PHIL 155	Philosophy Of Law	3
PHIL 160	Deductive Logic II	3
PHIL 176	Twentieth Century Anglo-American Philosophy	3
PHIL 192B	Topics in Bioethics	3
PHIL 192D	Space and Time	3
PHIL 192L	Topics in Philosophy Language	3
PHIL 192M	Topics in Philosophy of Mind	3
PHIL 192O	Topics in Contemporary Metaphysics	3
PHIL 192R	Topics in Philosophy of Religion	3
PHIL 195	Philosophy Internship	1 - 3
PHIL 196	Experimental Offerings in Philosophy	3
PHIL 199	Special Problems	1 - 3

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking [2]		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6-9 Units)		
C1 - Arts		3
C2 - Humanities [2]		0 - 3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [3]		0
Area D: The Individual and Society (9-12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements. [4]		0 - 3
Area E: Understanding Personal Development (3 Units)		

Area E Course	3
Total Units	40-46

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department offers students a 'select from the following' option:
- If student chooses to take PHIL 2, PHIL 6, or PHIL 26, they will meet Area C2.
- If student chooses to take PHIL 4, they will meet Area A3.

[3] Required in Major; also satisfies GE.

[4] Department offers students a 'select from the following' option:
- If student chooses to take PHIL 101, PHIL 103, PHIL 104, or PHIL 105, they will meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Philosophy (General Concentration)

Units required for Major: 40
Total units required for BA: 120

Program Description

This general concentration forms an excellent basis for a broad liberal arts education and has been the chosen mode of preparation for successful careers in such diverse areas as university teaching, government, education, medicine, consulting, publishing, business, and finance.

Program Requirements

Code	Title	Units
Required Lower Division Courses (6 Units)		
PHIL 60	Deductive Logic I	3
or PHIL 61	Inductive Logic I	
One of the following may be counted toward the major requirements:		3
PHIL 2	Ethics [1]	
PHIL 4	Critical Thinking [1]	
PHIL 6	Introduction to Philosophy: Knowledge, World and Self [1]	
PHIL 26	History of Philosophy [1]	
Required Upper Division Courses (13 Units)		
PHIL 127	History of Ancient Philosophy	3
PHIL 128	History of Modern Philosophy	3
PHIL 180	Knowledge and Understanding	3
PHIL 181	Metaphysics	3
PHIL 189	Senior Seminar in Philosophy	1
Additional Required Upper Division Courses (3 Units)		
PHIL 112	History Of Ethics [1]	3
or PHIL 152	Recent Ethical Theory	
Core Electives (9 Units)		
Select three Philosophy courses from courses numbered 150 or above. Courses should be selected in consultation with an advisor. [2]		9
Further Electives (9-12 Units)		
Select additional courses to total a minimum of 34 upper division units [3]		9 - 12
Total Units		40-43

Note: Philosophy majors must fulfill the GE Writing Intensive 'supervenient requirement' with courses **in the major, only**.

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] See the Electives List below for a list of Philosophy courses numbered 150 and above.

[3] See list below for a list of Department approved electives.

Elective List

Code	Title	Units
PHIL 100	Ethics and Personal Values	3
PHIL 101	Ethics and Social Issues [1]	3
PHIL 102	Professional and Public Service Ethics [1]	3
PHIL 103	Business and Computer Ethics [1]	3
PHIL 104	Bioethics [1]	3
PHIL 105	Science and Human Values [1]	3
PHIL 112	History Of Ethics [1]	3
PHIL 115	Philosophy In Literature [1]	3
PHIL 117	Existentialism [1]	3
PHIL 122	Political Philosophy [1]	3
PHIL 123	Philosophy and Feminism	3

PHIL 125	Philosophy Of Science	3
PHIL 126	The Meanings Of Evolution	3
PHIL 131	Philosophy Of Religion [1]	3
PHIL 136	Philosophy Of Art [1]	3
PHIL 145A	Chinese Philosophy [1]	3
PHIL 145B	Philosophies Of India [1]	3
PHIL 152	Recent Ethical Theory	3
PHIL 153	Philosophy Of Mind	3
PHIL 154	Philosophy Of Language	3
PHIL 155	Philosophy Of Law	3
PHIL 160	Deductive Logic II	3
PHIL 176	Twentieth Century Anglo-American Philosophy	3
PHIL 192B	Topics in Bioethics	3
PHIL 192D	Space and Time	3
PHIL 192L	Topics in Philosophy Language	3
PHIL 192M	Topics in Philosophy of Mind	3
PHIL 192O	Topics in Contemporary Metaphysics	3
PHIL 192R	Topics in Philosophy of Religion	3
PHIL 195	Philosophy Internship	1 - 3
PHIL 196	Experimental Offerings in Philosophy	3
PHIL 199	Special Problems	1 - 3

1 Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6-9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking [2]		0 - 3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6-12 Units)		
C1 - Arts		3
C2 - Humanities [2]		0 - 3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area D: The Individual and Society (9-12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		37-49

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Department offers students a 'select from the following' option:
- If student chooses to take PHIL 4, they will meet Area A3.
- If student chooses to take PHIL 2, PHIL 6, or PHIL 26, they will meet Area C2.

3 Department offers students a 'select from the following' option:
- If student chooses to take PHIL 102, PHIL 112, PHIL 115, PHIL 117, PHIL 122, PHIL 131, PHIL 136, PHIL 145A, or PHIL 145B, they will meet upper division Area C.
- If student chooses to take PHIL 101, PHIL 103, PHIL 104, or PHIL 105, they will meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies Graduation Requirement. Department offers students a 'select from the following' option:
- If student chooses to take PHIL 101, PHIL 105, PHIL 112, PHIL 115, PHIL 117, PHIL 145A, or PHIL 145B, they will meet the Writing Intensive (WI) graduation requirement.

3 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Philosophy (Honors)

Total units required in addition to the required major units: 50-53 units

Program Description

The Honors Concentration is to be combined with one of the other concentrations: the General Major, the Concentration in Ethics, Politics, and Law, or the Concentration in Logic and Philosophy of Science. Upon admission into the Honors program, students must produce a course plan approved by the Department Honors Committee.

Program Requirements

Code	Title	Units
Concentrations (40-43 Units)		
Select one of the following concentrations:		40 - 43
General Major Concentration		
Ethics, Politics, and Law Concentration		
Logic and Philosophy of Science Concentration		
Upper Division Courses (9 Units)		
Select one of the following:		3
PHIL 190 series course [1]		
PHIL 192 course [1]		
Select six additional upper division units in Philosophy [1]		6
Honors Thesis (1 Unit)		
PHIL 197	Honors Thesis	1
Total Units		50-53

[1] See list below for a list of Department approved electives.

Elective List

Code	Title	Units
PHIL 100	Ethics and Personal Values	3
PHIL 101	Ethics and Social Issues	3
PHIL 102	Professional and Public Service Ethics	3
PHIL 103	Business and Computer Ethics	3
PHIL 104	Bioethics	3
PHIL 105	Science and Human Values	3
PHIL 112	History Of Ethics	3
PHIL 115	Philosophy In Literature	3
PHIL 117	Existentialism	3
PHIL 122	Political Philosophy	3
PHIL 123	Philosophy and Feminism	3
PHIL 126	The Meanings Of Evolution	3
PHIL 131	Philosophy Of Religion	3
PHIL 136	Philosophy Of Art	3
PHIL 145A	Chinese Philosophy	3
PHIL 145B	Philosophies Of India	3
PHIL 152	Recent Ethical Theory	3
PHIL 154	Philosophy Of Language	3
PHIL 155	Philosophy Of Law	3
PHIL 176	Twentieth Century Anglo-American Philosophy	3
PHIL 192B	Topics in Bioethics	3
PHIL 192L	Topics in Philosophy Language	3
PHIL 192M	Topics in Philosophy of Mind	3
PHIL 192O	Topics in Contemporary Metaphysics	3
PHIL 192R	Topics in Philosophy of Religion	3
PHIL 195	Philosophy Internship	1 - 3
PHIL 196	Experimental Offerings in Philosophy	3
PHIL 199	Special Problems	1 - 3

BA in Philosophy (Logic and Philosophy of Science)

Units required for Major: 40
Total units required for BA: 120

Program Description

The concentration in Logic and Philosophy of Science is designed for students who are interested in the general nature of scientific inquiry and/or philosophical problems that arise within specific fields like psychology, biology, and physics. It is a good choice for the science-oriented philosophy major and will help to prepare those who are interested in studying logic and philosophy of science at the graduate level. This concentration also provides an excellent double major opportunity for science students interested in broadening and deepening their grasp of their chosen field.

The concentration gives students an understanding of logical theory and how logic applies to scientific and philosophical reasoning. It will also provide an understanding of issues in the philosophy of science. These include the nature of scientific explanation, the nature of scientific evidence, and the process of confirming and revising scientific theories. Philosophy of science also explores traditional philosophical questions as they arise in the context of scientific inquiry. Some of these are: Do we really know that the theoretical entities of science exist? What is the difference between science and pseudo-science? Do different sciences give us fundamentally different ways of understanding the world? Is science converging on truth or will it always undergo revolutionary changes that reject widely accepted theories of the past? Does scientific inquiry have intrinsic value or are there questions that scientists should not ask?

Note: Philosophy majors must fulfill the GE Writing Intensive 'supervenient requirement' with courses **in the major, only**.

Program Requirements

Code	Title	Units
Lower Division Courses (6 Units)		
PHIL 60	Deductive Logic I	3
or PHIL 61	Inductive Logic I	
One of the following may be counted toward the major requirements:		3
PHIL 2	Ethics [1]	
PHIL 4	Critical Thinking [1]	
PHIL 6	Introduction to Philosophy: Knowledge, World and Self [1]	
PHIL 26	History of Philosophy [1]	

Required Upper Division Courses (13 Units)		
PHIL 127	History of Ancient Philosophy	3
PHIL 128	History of Modern Philosophy	3
PHIL 180	Knowledge and Understanding	3
PHIL 181	Metaphysics	3
PHIL 189	Senior Seminar in Philosophy	1
Additional Required Upper Division Courses (6 Units)		
PHIL 112	History Of Ethics	3
or PHIL 152	Recent Ethical Theory	
PHIL 154	Philosophy Of Language	3
or PHIL 176	Twentieth Century Anglo-American Philosophy	
Logic and Philosophy of Science (15 Units)		
Logic		
Select whichever was not used under Lower Division Courses:		6
PHIL 60	Deductive Logic I	
PHIL 61	Inductive Logic I	
PHIL 160	Deductive Logic II	
Philosophy of Science		
PHIL 125	Philosophy Of Science [1]	3
PHIL 153	Philosophy Of Mind	3
PHIL 192D/ HRS 205	Space and Time	3
Further Upper Division Electives (0-3 Units)		
Select 0-3 units [2,3]		0 - 3
Total Units		40-43

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Any courses listed above that are not taken to satisfy the above requirements; other upper division philosophy courses; courses in other departments (with consent of Department Chair or program coordinator).

[3] See list below for list of Department approved electives.

Elective List

Code	Title	Units
PHIL 100	Ethics and Personal Values	3
PHIL 101	Ethics and Social Issues [1]	3
PHIL 102	Professional and Public Service Ethics [1]	3
PHIL 103	Business and Computer Ethics [1]	3
PHIL 104	Bioethics [1]	3
PHIL 105	Science and Human Values [1]	3
PHIL 112	History Of Ethics [1]	3
PHIL 115	Philosophy In Literature [1]	3
PHIL 117	Existentialism [1]	3
PHIL 122	Political Philosophy [1]	3
PHIL 123	Philosophy and Feminism	3
PHIL 126	The Meanings Of Evolution	3
PHIL 131	Philosophy Of Religion [1]	3
PHIL 136	Philosophy Of Art [1]	3
PHIL 145A	Chinese Philosophy [1]	3
PHIL 145B	Philosophies Of India [1]	3
PHIL 152	Recent Ethical Theory	3
PHIL 154	Philosophy Of Language	3
PHIL 155	Philosophy Of Law	3
PHIL 176	Twentieth Century Anglo-American Philosophy	3
PHIL 192B	Topics in Bioethics	3
PHIL 192L	Topics in Philosophy Language	3
PHIL 192M	Topics in Philosophy of Mind	3
PHIL 192O	Topics in Contemporary Metaphysics	3
PHIL 192R	Topics in Philosophy of Religion	3
PHIL 195	Philosophy Internship	1 - 3
PHIL 196	Experimental Offerings in Philosophy	3
PHIL 199	Special Problems	1 - 3

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6-9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking [2]		0 - 3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [3]		3
Area C: Arts and Humanities (6-12 Units)		
C1 - Arts		3
C2 - Humanities [2]		0 - 3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [4]		0 - 3
Area D: The Individual and Society (9-12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements. [4]		0 - 3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		37-49

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department offers students a 'select from the following' option:
- If student chooses to take PHIL 4, they will meet Area A3.
- If student chooses to take PHIL 2, PHIL 6, or PHIL 26, they will meet Area C2.

[3] Required in Major; also satisfies GE.

[4] Department offers students a 'select from the following' option:
- If student chooses to take PHIL 102, PHIL 112, PHIL 115, PHIL 117, PHIL 122, PHIL 131, PHIL 136, PHIL 145A, or PHIL 145B, they will meet upper division Area C.
- If student chooses to take PHIL 101, PHIL 103, PHIL 104, or PHIL 105, they will meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6-9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0 - 3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department offers students a 'select from the following' option:
- If student chooses to take PHIL 101, PHIL 105, PHIL 112, PHIL 115, PHIL 117, PHIL 145A, or PHIL 145B, they will meet the Writing Intensive (WI) graduation requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Minor in Philosophy

Units required for Minor: 18

Program Description

The subject of philosophy encompasses such fundamental issues as the scope and limits of human knowledge, the ultimate constituents of reality, the sources of value and obligation, and the nature of logic and correct reasoning. Philosophy utilizes the findings of many other academic disciplines and, in its method, stresses clear, rigorous, impartial and systematic thought. The application of philosophical ideas to practical problems is central to the subject.

Note: Students who minor in Philosophy are free to plan a sequence of courses suited to their individual needs and interests. However, for a given major, the Department offers certain courses that have particular relevance. Contact Department advisors for course recommendations.

Program Requirements

Code	Title	Units
Lower Division Courses (9 Units)		
PHIL 6	Introduction to Philosophy: Knowledge, World and Self	3
PHIL 26	History of Philosophy	3
Select one of the following:		3
PHIL 60	Deductive Logic I	
PHIL 61	Inductive Logic I	
Upper Division Courses (9 Units)		
Select upper division courses in Philosophy to complete 18 units [1,2]		9
Total Units		18

[1] These can include Philosophy courses taken for GE.

[2] See list below for a list of Department approved electives.

Elective List

Code	Title	Units
PHIL 100	Ethics and Personal Values	3
PHIL 101	Ethics and Social Issues	3
PHIL 102	Professional and Public Service Ethics	3
PHIL 103	Business and Computer Ethics	3
PHIL 104	Bioethics	3
PHIL 105	Science and Human Values	3
PHIL 112	History Of Ethics	3
PHIL 115	Philosophy In Literature	3
PHIL 117	Existentialism	3
PHIL 122	Political Philosophy	3
PHIL 123	Philosophy and Feminism	3
PHIL 125	Philosophy Of Science	3
PHIL 126	The Meanings Of Evolution	3
PHIL 127	History of Ancient Philosophy	3
PHIL 128	History of Modern Philosophy	3
PHIL 131	Philosophy Of Religion	3
PHIL 136	Philosophy Of Art	3
PHIL 145A	Chinese Philosophy	3
PHIL 145B	Philosophies Of India	3
PHIL 152	Recent Ethical Theory	3
PHIL 153	Philosophy Of Mind	3
PHIL 154	Philosophy Of Language	3
PHIL 155	Philosophy Of Law	3
PHIL 160	Deductive Logic II	3
PHIL 176	Twentieth Century Anglo-American Philosophy	3

PHIL 180	Knowledge and Understanding	3
PHIL 181	Metaphysics	3
PHIL 192B	Topics in Bioethics	3
PHIL 192D	Space and Time	3
PHIL 192L	Topics in Philosophy Language	3
PHIL 192M	Topics in Philosophy of Mind	3
PHIL 192O	Topics in Contemporary Metaphysics	3
PHIL 192R	Topics in Philosophy of Religion	3
PHIL 195	Philosophy Internship	1 - 3
PHIL 199	Special Problems	1 - 3

Theatre and Dance

College of Arts and Letters

Program Description

The California State University, Sacramento Department of Theatre and Dance fosters student-learning to advance critically-thinking, creative and collaborative artists. It provides a broad and thorough foundation of the history, theory, literature and the practice of theatre and dance to students who wish to pursue post graduate studies or join the profession. The Department of Theatre and Dance offers an imaginative and ambitious program of historical and contextual studies supported by studio and production work. Our mission challenges students to be independent thinkers. Our department provides a collaborative, artistic environment that reflects a richly complex and diverse global perspective complemented by national and international faculty and staff experience.

Degree Programs

BA in Dance (p. 298)

BA in Theatre (p. 299)

Minor in Dance (p. 300)

Minor in Musical Theatre (p. 301)

Minor in Theatre (p. 301)

Subject Matter Program (English/Theatre) (p. 302)

Theatre

Majors in the Theatre program receive in-depth training in acting, voice, movement, audition technique, design, history, literature, criticism, multicultural theatre, musical theatre, puppetry, and film studies.

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Arts in Theatre is accredited by the National Association of Schools of Theatre.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

- Academic offerings include an excellent program of performance opportunities. Each year we offer four to six faculty-directed productions and a varied selection of additional productions including student-directed one-acts, recruitment shows, and community outreach performances. Students are also offered production assignments as stage managers, designers and technicians, all of which enhance the range of theatrical knowledge and experience.
- Included are African American and Chicano/Latino Theatre productions that make this program unique in the State University System.
- In addition to the performance and technical components, Sacramento State's Theatre program provides organizations that encompass social, academic and professional opportunities, both on campus and in the community.
- The Theatre program participates annually in the Kennedy Center American College Theatre Festival (KCACTF).

Dance

Majors in the Dance program receive training in dance technique, performance, production, choreography, theory, dance history, and dance education.

The comprehensive Dance program starts with the basic principles of dance technique and refines them through choreographic and theoretic processes, culminating in the creation of full-scale concert productions. Students in the program are involved at every level of the creative process.

Special Features

- Dance majors have the opportunity to participate as members of several dance companies and organizations. Company members are involved in all aspects of producing and presenting dance, from creating and performing choreography to designing and implementing the production and promotional aspects of the concerts.
- Dance majors are given the opportunity to work with professional dance artists. Each year, at least one regional professional dance artist is in residence, and the program invites nationally acclaimed guest artists to teach master classes and choreograph.
- The Dance program participates annually in the American College Dance Association (ACDA) conference and the International Association of Blacks in Dance (IABD) conference.

Career Possibilities

Actor · Choreographer · Dancer · Director · Scenographer · Lighting Designer · Scenic Designer · Puppeteer · Theatre Manager · Critic · Announcer/Narrator · Sound/Light Technician · Scenic Artist · Propmaster · Educator (Instructor/Teacher/Professor) · Stage and Production Manager

Contact Information

Lorelei Bayne, Department Chair
Michelle Felten, Department Vice-Chair
Carol Wang, Academic Support Coordinator II
Shasta Hall 104
(916) 278-6368
Department of Theatre & Dance Website (http://www.csus.edu/dram/)

Faculty

BAYNE, LORELEI

BRAZO, ED

BROWN, BERNARD

FELTEN, MICHELLE

FLICKINGER, PHILIP

JOHNSTON, JANIS

POMO, ROBERTO DARIO

REISNER, RONALD

WILSON, MELINDA D.

DNCE 1A. Jazz Dance Level IA. 2 Units
Term Typically Offered: Fall, Spring

Theory and practice of basic beginning jazz techniques.
Note: May be repeated for up to 4 units of credit.

DNCE 1B. Jazz Dance Level IB. 2 Units
Term Typically Offered: Fall, Spring

Continued theory and practice of beginning jazz techniques.
Note: Does not satisfy degree requirements for major, all students welcome. May be repeated for up to 4 units of credit.

DNCE 1C. Jazz Dance Level IC. 2 Units
Term Typically Offered: Fall, Spring

Further theory and practice of beginning jazz techniques.
Note: May be repeated for up to 4 units of credit.

DNCE 2A. Contemporary Dance Level lA. 2 Units
Term Typically Offered: Fall, Spring

Introduction to the history and techniques of the contemporary dance and modem dance tradition through basic dance principles and aesthetics including the introduction to contemporary movement to develop and improve strength, flexibility, balance, coordination and creative expression.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 2B. Contemporary Dance Level IB. 2 Units
Term Typically Offered: Fall, Spring

Continues the introduction of the history and techniques of contemporary dance and the modern dance tradition through deepened study of basic dance principles and aesthetics including the continued practice of contemporary movement to continue the development and improvement of strength, flexibility, balance, coordination and creative expression.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 2C. Contemporary Dance Level IC. 2 Units
Term Typically Offered: Fall, Spring

Further introduction to the history and techniques of the contemporary dance and modem dance tradition through further study of basic contemporary dance principles and aesthetics including the further practice pf contemporary movement for the deepened development and improvement of strength, flexibility, balance, coordination and creative expression.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 3A. Ballet Level lA. 2 Units
Term Typically Offered: Fall, Spring

Introduction to the history and development of traditional ballet techniques. Students will study ballet principles and aesthetics and continue to learn basic ballet movement, vocabulary, and skills.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 3B. Ballet Level IB. 2 Units
Term Typically Offered: Fall, Spring

This course provides,continued introduction to the history and development of traditional ballet techniques. Students will study ballet principles and aesthetics and continue to learn basic ballet movement, vocabulary, and skills.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 3C. Ballet Level IC. 2 Units
Term Typically Offered: Fall, Spring

This course provides a further introduction to the history and development of traditional ballet techniques. Students will expand upon their earlier study of ballet principles and aesthetics and continue to learn basic ballet movement, vocabulary, and skills.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 4A. Tap Dance Level lA. 2 Units
Term Typically Offered: Fall, Spring

Introduction to fundamental tap dance skills including basic steps, history and vocabulary, and style development.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirement, all students welcome.

DNCE 4B. Tap Dance Level IB. 2 Units
Term Typically Offered: Fall, Spring

Continued introduction to fundamental tap dance skills including a deepened study of basic steps, history and vocabulary, and continued style development
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.

DNCE 4C. Tap Dance Level IC. 2 Units
Term Typically Offered: Fall, Spring

Further introduction to fundamental tap dance skills including an expanded study of basic steps, history and vocabulary, and further style development
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.

DNCE 5A. Mexican Folklorico Level lA. 2 Units
Term Typically Offered: Fall, Spring

Introduction to dances typically and traditionally performed by Mexican and Latin Americans exploring the interrelationship of dance culture to historical events, holidays, and people throughout the Americas and with opportunities to learn folk dances representative of specific regions of Mexico and Latin America.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.

DNCE 5B. Mexican Folklorico Level IB. 2 Units
Term Typically Offered: Fall, Spring

Continued introduction to dances typically and traditionally performed by Mexican and Latin Americans with deepened exploration of the interrelationship of dance culture to historical events, holidays, and people throughout the Americas and with continued study of folk dances representative of specific regions of Mexico and Latin America.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirement, all students welcome.

DNCE 5C. Mexican Folklorico Dance Level IC. 2 Units
Term Typically Offered: Fall, Spring

Further introduction to dances typically and traditionally performed by Mexican and Latin Americans with expanded exploration of the interrelationship of dance culture to historical events, holidays, and people throughout the Americas and with further study of folk dances representative of specific regions of Mexico and Latin America.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirement, all students welcome.

DNCE 6A. Hip Hop Level lA. 2 Units
Term Typically Offered: Fall, Spring

Introduction to the fundamentals of Hip Hop and Urban dance skills, including basic steps, history, and vocabulary.
Note: May be repeated for up to 4 units of credit. Does not satisfy degree requirement, all students welcome.

DNCE 6B. Hip Hop Level IB. 2 Units
Continues the introduction of the fundamentals of Hip Hop and Urban dance skills, with a deepened study of basic steps, history, and vocabulary.
Note: May be repeated for up to 4 units of credit, does not satisfy degree requirement, all students are welcome.

DNCE 6C. Hip Hop Level IC. 2 Units
Further introduction of the fundamentals of Hip Hop and Urban dance skills, with an expanded study of basic steps, history, and vocabulary.
Note: May be repeated for up to 4 units of credit, does not satisfy degree requirement, all students are welcome.

DNCE 11A. Jazz Dance Level IIA. 2 Units
Term Typically Offered: Fall, Spring

Theory and practice of current jazz techniques including continued study of movement vocabulary with an emphasis on the different jazz styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 11B. Jazz Dance Level IIB. 2 Units
Term Typically Offered: Fall, Spring

Continued theory and practice of current jazz techniques including the continued study of movement vocabulary with an emphasis on the different jazz styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during the first week of classes, all students welcome.

DNCE 11C. Jazz Dance Level IIC. 2 Units
Term Typically Offered: Fall, Spring

Further expanded theory and practice of current jazz techniques including the deepened study of movement vocabulary with an emphasis on the different jazz styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during the first week of classes, all students welcome.

DNCE 12A. Contemporary Dance Level IIA. 2 Units
Term Typically Offered: Fall, Spring

Examination of theories of the contemporary dance and modern dance tradition that develops proficiency in performing intermediate level contemporary dance techniques from an intellectual and kinesthetic understanding. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 12B. Contemporary Dance Level IIB. 2 Units
Term Typically Offered: Fall, Spring

Continued examination of theories of the contemporary dance and modern dance tradition that continues the proficiency in performing intermediate level contemporary dance techniques with a deepened intellectual and kinesthetic understanding. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 12C. Contemporary Dance Level IIC. 2 Units
Term Typically Offered: Fall, Spring

Further examination of theories of the contemporary dance and modern dance tradition that further expand the proficiency in performing intermediate level contemporary dance techniques from a deeper intellectual and kinesthetic understanding. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 13A. Ballet Level IIA. 2 Units
Term Typically Offered: Fall, Spring

Understand and demonstrate proficiency of Ballet movement and vocabulary including different styles while learning the importance of proper anatomical alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 13B. Ballet Level IIB. 2 Units
Term Typically Offered: Fall, Spring

Continued understanding and deepened demonstration of proficiency of Ballet movement and vocabulary including different styles while learning the importance of proper anatomical alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 13C. Ballet Level IIC. 2 Units
Term Typically Offered: Fall, Spring

Further understanding and expanded demonstration of proficiency of Ballet aesthetics through Ballet movement and vocabulary including different styles while learning the importance of proper anatomical alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 14A. Tap Dance Level IIA. 2 Units
Term Typically Offered: Fall, Spring

Development and refinement of intermediate tap skills and vocabulary through the study of historical and current tap styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 14B. Tap Dance Level IIB. 2 Units
Term Typically Offered: Fall, Spring

Continued development and refinement of intermediate tap skills and vocabulary through the deepened study of historical and current tap styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 14C. Tap Dance Level IIC. 2 Units
Term Typically Offered: Fall, Spring

Further development and refinement of intermediate tap skills and vocabulary through the expanded study of historical and current tap styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

DNCE 22. Music for Dance. 2 Units
Prerequisite(s): DNCE 1A or DNCE 1B or DNCE 1C or DNCE 2A or DNCE 2B or DNCE 2C or instructor permission.
Term Typically Offered: Fall only

Experiential course exploring the musical elements utilized by the dancer, choreographer, and teacher of dance including a survey of music history and vocabulary; rhythms and theory; musical and dance phrasing; and dance performance musicality. This course fulfills requirements for the Dance Major and Dance Minor, non-dance major or minor students welcome.

DNCE 111A. Jazz Dance Level IIIA. 2 Units
Term Typically Offered: Fall, Spring

Advanced training in the theory and practice of jazz techniques. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 111B. Jazz Dance Level IIIB. 2 Units
Term Typically Offered: Fall, Spring

Continued training at the advanced level in the theory and practice of Jazz Dance techniques. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 111C. Jazz Dance Level IIIC. 2 Units
Term Typically Offered: Fall, Spring

Further advanced training at a deepened level for the theory and practice of jazz techniques. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 112A. Contemporary Dance Level IIIA. 2 Units
Term Typically Offered: Fall, Spring

Advanced training in the theory and practice of Contemporary Dance techniques and Modern Dance Traditions. Instructor with dance faculty representatives will audition students during first week of class for proper placement
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 112B. Contemporary Dance Level IIIB. 2 Units
Term Typically Offered: Fall, Spring

Continued training at the advanced level in the theory and practice of Contemporary Dance techniques and Modem Dance Traditions. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 112C. Contemporary Dance Level IIIC. 2 Units
Term Typically Offered: Fall, Spring

Further advanced training at a deepened level for the theory and practice of Contemporary Dance techniques and Modern Dance Traditions. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 113A. Ballet Level IIIA. 2 Units
Term Typically Offered: Fall, Spring

Advanced training in the theory and practice of Ballet including proper alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 113B. Ballet Level IIIB. 2 Units
Term Typically Offered: Fall, Spring

Continued training at the advanced level in the theory and practice of Ballet including proper alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 113C. Ballet Level IIIC. 2 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Further refinement within the proficiency of performing Ballet techniques while expanded intellectual and kinesthetic understanding of different Ballet styles which will be attained through the further emphasis of anatomy and the expanded building of the bodily strength and endurance through barre and center work.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 118. Dance Improvisation. 2 Units
Prerequisite(s): DNCE 1A or DNCE 1B or DNCE 1C or DNCE 2A or DNCE 2B or DNCE 2C or instructor permission.
Term Typically Offered: Spring only

Exploration of the creation of movement through improvisation. Students will simultaneously explore and create, while spontaneously performing inner-directed movement without intellectual censorship.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.

DNCE 120. Dance Composition I. 2 Units
Prerequisite(s): DNCE 118 or instructor approval
Term Typically Offered: Fall only

An exploration of the principle elements and processes utilized in the choreographic process.
Note: Satisfies degree requirements, all students welcome

DNCE 122. Dance Composition II. 2 Units
Prerequisite(s): DNCE 120 or Instructor permission.
Term Typically Offered: Fall, Spring

An in-depth exploration of the concepts, approaches, and processes used to further develop a stylistic approach to Dance Composition.
Note: Satisfies degree requirements, all students welcome.

DNCE 130. Appreciation and History of Dance. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Survey in the appreciation and history of dance and the relationship of dance to the fine and liberal arts in Western Civilization. Emphasis upon the history of ballet; American modes of expression: modern and jazz forms.
Note: Non-activity.

DNCE 131. Dance Cultures Of America. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Fall, Spring

Survey course in the appreciation and understanding of dance cultures in America. The relationship of dance to the identity and expression of different cultural groups in the U.S. will be examined. Jazz, modern, and ballet from a multicultural perspective will be the focus of the class.
Note: Non-activity.

DNCE 132. African-Caribbean Dance. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Introduction to the rich dance cultures of the Caribbean. Students will learn the different dances of Haiti, Cuba, Jamaica and Trinidad as they relate to their function in secular and religious culture, including the study of the Dunham Dance Technique.
Note: May be repeated for up to 6 units of credit.

DNCE 142. Dance Science and Somatics. 3 Units
Prerequisite(s): Upper division standing, or instructor permission.
Term Typically Offered: Fall, Spring

The study of skeletal structure, joint and muscle function, and the mechanics of movement geared specifically for dancers and movement practitioners. Incorporated into the course will be the study of embodied awareness practices - Somatics. The structural and energetic connections of the body will be explored within a context of both ease and efficiency of movement as well as creative expression.
Note: May be repeated for up to 6 units of credit. Satisfies degree requirement, all students welcome.

DNCE 143. University Dance Company. 1 Unit
Prerequisite(s): THEA 121and either DNCE 11A, 11B, 11C, 12A, 12B, 12C, 13A, 13B, 13C, 111A, 111B, 111C, 112A, 112B, 112C, 113A, 113B, 113C, or 132.
Term Typically Offered: Fall, Spring

Participation in the University Dance Company includes pre-professional dance conditioning and performance skill acquisition. Fulfills requirement for Dance Major and elective for Dance Minor; all students welcome to audition.
Note: Admission by audition only, this course is approximately 30 hours of participation in mandatory weekly class.

DNCE 150. Dance Theory and Criticism. 3 Units
Prerequisite(s): DNCE 122, DNCE 130, DNCE 131, instructor permission.
Term Typically Offered: Fall, Spring

Exploration of the contemporary theories and philosophies of movement, specifically in the dance genres of modern and jazz.. Also explores personal aesthetics and how to look at dance from a critical writing and oral presentation perspective. The role of the audience as well as the critic will be assessed and students will learn to evaluate content of movement in relation to its intention, motivation, and delivery.

DNCE 160. Creative Dance for Children. 3 Units
Term Typically Offered: Spring only

Exploration of creative dance as it applies to young children; including exploration of non-locomotor and locomotor movement patterns through problem solving and guided discovery techniques.

DNCE 190. Capstone Dance Project. 2 Units
Prerequisite(s): DNCE 150
Term Typically Offered: Fall, Spring

Participation and creative research in the rehearsal, production, and performance of a public dance production. Students will synthesize all major course materials to individually create a new choreographic work and collaboratively produce the Senior Dance Concert as their capstone project. Fulfills requirements for Dance Major.
Note: Dance Majors Only or Instructor Permission.

THEA 1. Introduction To Theatre. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Primarily for non-majors interested in acquiring a background of information in theatre. Plays, history, acting theories, technical methods and people in the theatre. Lectures, demonstrations and discussions will characterize the greater portion of the course.

THEA 2. History of the Theatre: Ancient to Renaissance. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Broad survey of the nature and development of theatrical performance from ancient times through the Renaissance which emphasizes the relationship between theatre and the larger philosophical social and political concerns of its time.

THEA 3. Theatre History After 1660. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

Investigates the relationship between the development of theatre styles, structures and institutions, and philosophical, political, and cultural practices after 1660. Considers plays, production styles, theatre as an institution, and issues of representation of gender, race and class.

THEA 5. Aesthetics of Theatre and Film. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Interpretations of seminal dramatic scripts emphasizing the aesthetics of the theatrical art in relation to the cinematic medium.

THEA 9. Appreciation Of Acting. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examination of the art of acting, including a review of actors and acting - past and present. Basic exercises in voice and diction, movement, and character will be utilized.

THEA 11. Acting Study I. 3 Units
Prerequisite(s): Theatre and Dance Majors or Minors or instructor permission.
Term Typically Offered: Fall, Spring

An introduction to, and a solid working foundation of, the basic building blocks of the acting craft. Through ensemble building, personal reflection, physical commitment, and vocal awareness exercises, students have the opportunity to improve and grow as an actor in both individual and partnered performance. Key learning goals include the ability to understand, interpret and execute the foundational elements of drama (plot, character, thought, and language).

THEA 14. Stage Makeup and Costume Construction. 3 Units
Term Typically Offered: Fall, Spring

This course provides a comprehensive look at the technical side of stage makeup and stage costumes, with an emphasis on makeup application and costume construction. Students learn use of materials, equipment, theatre terminology, and the practical aspects of costume and stage makeup realization. Students work on costume and makeup projects from start to finish in the makeup lab and costume shop.
Note: MAY NOT be taken concurrently with THEA 16 or THEA 20 without instructor permission.

THEA 16. Stagecraft. 3 Units
Term Typically Offered: Fall, Spring

Principles of scenic and stage prop construction, techniques of mounting and shifting stage scenery, and the study of ground plans and construction drawings for theatrical production. Lecture/lab activity.
Note: May not be taken concurrently with THEA 14 or THEA 20 without instructor permission.

THEA 20. Lighting. 3 Units
Term Typically Offered: Fall, Spring

Principles of stage lighting, fixtures, control and color. Introduction to basic concepts and practices of lighting design. Lecture/lab activity.
Note: May not be taken concurrently with THEA 14 or THEA 16 without instructor permission.

THEA 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

THEA 100. Script Analysis. 3 Units
Prerequisite(s): THEA 2, THEA 3
Corequisite(s): THEA 3
Term Typically Offered: Spring only

Through lecture and discussion, students explore the foundational elements of play scripts. The class investigates the structure of a play as well as its use of character, thought, plot, diction, song, and spectacle to analyze how a play's social and cultural elements inform potential productions.

THEA 102A. Voice and Movement I. 3 Units
Prerequisite(s): THEA 11.
Term Typically Offered: Fall, Spring

Introduction to the basic fundamentals of voice production and movement for the actor. Basic anatomy and physiology, relaxation, alignment, and breath work and its connection to movement. Feldenkrais, the Alexander Technique, and physical strengthening exercises are used in combination with vocal exercises to develop the actor's voice and body. Vocal and physical improvisation are introduced through various voice and movement exercises.

THEA 102B. Voice and Movement II. 3 Units
Prerequisite(s): THEA 11, THEA 102A or instructor permission.
Term Typically Offered: Fall, Spring

Strengthening and enhancing the vocal work developed in Voice and Movement I is continued with an in depth study of the International Phonetic Alphabet and its importance when performing heightened language plays. Solo presentation and a devised final ensemble project round out the course requirements.

THEA 104. Acting Study II. 3 Units
Prerequisite(s): THEA 11, THEA 102A or instructor permission.
Term Typically Offered: Fall, Spring

To further develop the basic concepts of acting through scene work from the American modern repertoire. Particular emphasis is placed on the importance of a play's given circumstances, and the commitment required to make bold, active tactic choices when developing a character. Further investigation of the actor's process in analyzing text and incorporating research through character analysis, as it ties into performance, are explored.

THEA 106. Latin American Film. 3 Units
Term Typically Offered: Fall, Spring

Exploration of the major movements in Latin American cinema beginning with the initial impetus of the Argentine and Mexican film industry of the late 1940's and the relationship of their aesthetic formulas to the cultural and socio/political climate of major Latin American nations.

THEA 107. Directing. **3 Units**
Prerequisite(s): THEA 2, THEA 3, THEA 11, THEA 14, THEA 16, THEA 20, THEA 100
Term Typically Offered: Fall only

Practical experience in production procedures, characterization and basic principles of play direction. Analyzes directing techniques. Class typically attends a rehearsal and performance at Capital Stage (professional theatre in Midtown).
Note: Field trip.

Field trip(s) may be required.

THEA 109. Musical Theatre. **3 Units**
Prerequisite(s): THEA 11
Term Typically Offered: Spring only

Practical study in singer-actor performance techniques. Major consideration is given to coordination of gesture and/or choreography, dialogue, melody, and lyric.

THEA 110. Acting Study III: Advanced Acting. **3 Units**
Prerequisite(s): THEA 11, THEA 102A and/or THEA 102B, THEA 104 or instructor permission.
Term Typically Offered: Fall, Spring

The study of ways to research, rehearse and perform advanced acting styles and techniques with an emphasis on text analysis, given circumstances, subtext, and heightened language.
Note: May be taken twice for credit.

THEA 111. Audition Technique. **3 Units**
Prerequisite(s): THEA 11, THEA 102A &/OR THEA 102B, THEA 104; Musical Theatre minors must also take THEA 109.
Term Typically Offered: Spring only

An in-depth study of the business of becoming a working professional actor and the techniques needed when auditioning for a professional theatre company. Students prepare an audition repertoire that is appropriate to their age and type; audition for a panel of theatre professionals and receive feedback for both areas of skill and those needing improvement. Resumes, headshots, trade papers, skill sets, and financial budgeting are examples of the areas included within the content of this course. An introduction to television/commercial and musical theatre audition techniques is also incorporated.

THEA 113. Acting Styles: Shakespeare. **3 Units**
Prerequisite(s): THEA 11, THEA 102A &/or THEA 102B, THEA 104
Term Typically Offered: Fall, Spring

Designed to familiarize the intermediate acting student with the very specific demands of performing the works of William Shakespeare. Beginning with an in-depth study of the structure and meter of verse poetry, THEA 113 provides the vocal, physical, and analytical tools with which to approach this material in an intelligent and confident manner. Scene and monologue work is detailed and extensive.

THEA 115. Puppetry. **3 Units**
Term Typically Offered: Fall, Spring

Play production with puppets. Practical work in constructing and manipulating various kinds of puppets. Simple puppets for use at elementary level; hand puppet production. Lecture/lab activity.

THEA 115A. Multicultural Puppetry. **3 Units**
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Fall, Spring

Multicultural puppetry was developed to introduce the student to the techniques and construction of puppetry and its use in a multicultural setting. Puppetry has been found to be an excellent tool for the teaching of multiculturalism to children. Emphasizes the methodology in the development of multicultural/multilingual scripts and their use in the implementation of curriculum. The ability to speak a second language is not a prerequisite.

THEA 118. Children's Theatre. **3 Units**
Term Typically Offered: Fall, Spring

Study of special problems and techniques in the production of formal and improvisational drama for children; a consideration of techniques, methods and materials for use in the classroom to support and supplement curricular goals.

THEA 120A. Practicum in Technical Production. **1 Unit**
Term Typically Offered: Fall, Spring

Practical experience in handling technical stagecraft problems, stage management, and crew management. Activity and participation in major productions. Four hours per week minimum required in workshop.
Note: THEA 120A requires students to work on one departmental production a semester for a minimum of 4 hours/week; may be repeated for credit.

THEA 120B. Practicum in Technical Production. **2 Units**
Term Typically Offered: Fall, Spring

Practical experience in handling technical stagecraft problems, stage management, crew management. Activity and participation in major productions. Eight hours minimum a week required workshop.
Note: THEA 120B requires student to work on two departmental productions a semester for a minimum of 8 hours/week; may be repeated for credit.

THEA 120C. Practicum in Technical Production. **3 Units**
Term Typically Offered: Fall, Spring

Practical experience in handling technical stagecraft problems, stage management, and crew management. Activity and participation in major productions. 12 hours minimum a week required work shop.
Note: THEA 120C requires students to work on three departmental productions a semester for 12 hours/week; may be repeated for credit.

THEA 121. Rehearsal and Performance. **1 Unit**
Term Typically Offered: Fall, Spring

Participation in the preparation, rehearsal and performance of a departmental production. Approximately 50 hours of participation (including rehearsal and performance time) for one unit of credit. Admission by audition. A total of six undergraduate units may be taken.

THEA 123. Lighting and Set Design. **3 Units**
Prerequisite(s): THEA 16 and THEA 20 or instructor permission.
Term Typically Offered: Fall, Spring

Advancement in the methods of developing concepts for and of productions involving analysis of the script, research and spatial awareness in relation to scenic and lighting design.

THEA 131. Costume Design. 3 Units
Term Typically Offered: Spring only

Study of costume history, design elements, play and character analysis, rendering and presentation techniques, and production procedures. Practical experience in the basics of costume construction with a focus on character interpretation and collaboration with other theatre artists.

THEA 140. Black Drama in the African Diaspora. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Survey of the contributions of theatre artists in the African Diaspora. The reading list includes dramas from Africa, the Caribbean and United Stats and focuses on how social, cultural, and political climates influence Black Drama.

THEA 144. Women and Theatre: Staging Diversity. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Fall, Spring

Survey and performance course that focuses on identity theories and the contributions of contemporary female theatre artists. Lecture two hours; lab two hours.
Cross Listed: WOMS 144; only one may be counted for credit.

THEA 155. Contemporary World Cinema. 3 Units
Term Typically Offered: Fall, Spring

A historical review of the development of major international film styles and themes. Theoretical and critical concepts derived from this study of international film and then used as the basis to analyze contemporary films of South America, Europe, India, East Asia, Africa and the Middle East. Emphasis is on both the development of formal film techniques and a comparison of the unique cultural values that shape the film narrative style.
Crosslisted: FILM 155

THEA 170. African American Theatre and Culture. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Survey of African American theatre and drama as a reflection of African American history and culture from slavery to today. This is a writing-intensive course.

THEA 173. Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Study of contemporary Chicano/Latino, Chicana/Latina theatre and drama from 1965 to the present, and its approaches toward performance. The course focuses on new trends, influences and new developments in playwriting, directing, performance styles, and its impact on the movie industry.

THEA 174. Multicultural Perspectives in American Theatre. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Fall, Spring

Study of the historical and artistic contributions of Native Americans, Chicano/Latinos, African-Americans and Asian-Americans to American Theatre. Focuses on a range of plays from various ethnic and racial groups, forming a multicultural classroom experience; specifically study groups, from 1965 to the present, and examine the cultural, sociological and political climate in which these plays were created.

THEA 175. Multicultural Perspectives in American Film. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Fall, Spring

Study of the historical and artistic contributions of Native American, Chicano/Latino, African-Americans and Asian American to the American cinema. The course will concentrate on a range of films with an emphasis on multicultural theoretical and critical writings and will examine the cultural and socio-political climate in which these films were crafted.

THEA 190. Senior Production. 2 Units
Prerequisite(s): THEA 2, THEA 3, THEA 11, THEA 14, THEA 16, THEA 20, THEA 100, THEA 120A, THEA 104, THEA 107, THEA 120 (3 units), THEA 121 and THEA 123 or THEA 131.
Corequisite(s): THEA 120 (3 units) may be taken concurrently if needed
Term Typically Offered: Spring only

This capstone course provides practical experience in theatrical production by focusing on the foundational elements of play production and the collaborative page-to-page production process.

THEA 194. Theatre-Related Work Experience. 3 - 12 Units
Prerequisite(s): Consent of Department chair.
Term Typically Offered: Fall, Spring

Supervised employment in a company or producing agency working on theatre-related work, arranged through the Theatre and Dance Department and the Cooperative Education Program office. Requires preparation of application packet, completion of a 3-6 month full-time or part-time work assignment, and a written report. No more than 3 units will be counted towards the degree.
Note: Open only to upper division or graduate students with appropriate course preparation.

Credit/No Credit

THEA 195. Fieldwork. 2 - 3 Units
Prerequisite(s): Junior or Senior standing and permission of the instructor of record.
Term Typically Offered: Fall, Spring

Internship with local theatre company or arts organization that provides direct, supervised experience with different aspects of performance and/or theatre management. Requires students to maintain a journal and submit a final paper to faculty internship coordinator. Graded: Credit/ No Credit Units: 2.00 - 3.00
Credit/No Credit

THEA 199. Special Problems in Theatre. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual project or directed reading.
Note: Departmental petition required.

THEA 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Completion of a thesis, directing project, or playwriting project.

BA in Dance

Units required for Major: 48
Total units required for BA: 120

Program Description

The California State University, Sacramento Department of Theatre and Dance fosters student-learning to advance critically-thinking, creative and collaborative artists. It provides a broad and thorough foundation of the history, theory, literature and the practice of theatre and dance to students who wish to pursue post graduate studies or join the profession. The Department of Theatre and Dance offers an imaginative and ambitious program of historical and contextual studies supported by studio and production work. Our mission challenges students to be independent thinkers. Our department provides a collaborative, artistic environment that reflects a richly complex and diverse global perspective complemented by national and international faculty and staff experience.

Minimum Grade Requirement

A minimum grade of 'C-' is required of courses applied to the major.

Program Requirements

Code	Title	Units
Required Lower Division Courses (11 Units)		
DNCE 11A	Jazz Dance Level IIA	2
or DNCE 11B	Jazz Dance Level IIB	
or DNCE 11C	Jazz Dance Level IIC	
DNCE 12A	Contemporary Dance Level IIA	2
or DNCE 12B	Contemporary Dance Level IIB	
or DNCE 12C	Contemporary Dance Level IIC	
DNCE 22	Music for Dance	2
THEA 14	Stage Makeup and Costume Construction	3
or THEA 16	Stagecraft	
or THEA 20	Lighting	
DNCE 4A	Tap Dance Level lA	2
or DNCE 4B	Tap Dance Level lB	
or DNCE 4C	Tap Dance Level lC	
or DNCE 5A	Mexican Folklorico Level lA	
or DNCE 5B	Mexican Folklorico Level lB	
or DNCE 5C	Mexican Folklorico Dance Level lC	
Required Upper Division Courses (37 Units)		
DNCE 111A	Jazz Dance Level IIIA	2
or DNCE 111B	Jazz Dance Level IIIB	
or DNCE 111C	Jazz Dance Level IIIC	
DNCE 112A	Contemporary Dance Level IIIA	2
or DNCE 112B	Contemporary Dance Level IIIB	
or DNCE 112C	Contemporary Dance Level IIIC	
DNCE 113A	Ballet Level IIIA	2
or DNCE 113B	Ballet Level IIIB	
or DNCE 113C	Ballet Level IIIC	
DNCE 118	Dance Improvisation	2
DNCE 120	Dance Composition I	2
DNCE 122	Dance Composition II	2
DNCE 130	Appreciation and History of Dance [1]	3
DNCE 131	Dance Cultures Of America [1]	3
DNCE 132	African-Caribbean Dance [1]	3
DNCE 142	Dance Science and Somatics	3
DNCE 143	University Dance Company	1
DNCE 150	Dance Theory and Criticism	3
DNCE 160	Creative Dance for Children	3
DNCE 190	Capstone Dance Project	2
THEA 120A	Practicum in Technical Production	3
or THEA 120B	Practicum in Technical Production	
or THEA 120C	Practicum in Technical Production	
THEA 121	Rehearsal and Performance	1
Total Units		48

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3

Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Theatre

Units required for Major: 48
Total units required for BA: 120

Program Description

The California State University, Sacramento Department of Theatre and Dance fosters student-learning to advance critically-thinking, creative and collaborative artists. It provides a broad and thorough foundation of the history, theory, literature and the practice of theatre and dance to students who wish to pursue post graduate studies or join the profession. The Department of Theatre and Dance offers an imaginative and ambitious program of historical and contextual studies supported by studio and production work. Our mission challenges students to be independent thinkers. Our department provides a collaborative, artistic environment that reflects a richly complex and diverse global perspective complemented by national and international faculty and staff experience.

Minimum Grade Requirement

A minimum grade of 'C-' is required of courses applied to the major.

Program Requirements

Code	Title	Units
Required Lower Division Courses (18 Units)		
THEA 2	History of the Theatre: Ancient to Renaissance [1]	3
THEA 3	Theatre History After 1660 [1]	3
THEA 11	Acting Study I	3
THEA 14	Stage Makeup and Costume Construction	3
THEA 16	Stagecraft	3
THEA 20	Lighting	3
Required Upper Division Courses (24 Units)		
THEA 100	Script Analysis	3
THEA 102A	Voice and Movement I	3
THEA 104	Acting Study II	3
THEA 107	Directing	3
THEA 120A	Practicum in Technical Production (1 unit x 3)	1
THEA 121	Rehearsal and Performance	1
THEA 190	Senior Production	2
Select one of the following courses fulfilling the 'Multicultural Theatre' requirement:		3
THEA/WOMS 144	Women and Theatre: Staging Diversity [1]	
THEA 170	African American Theatre and Culture [1]	
THEA 173	Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present [1]	
THEA 174	Multicultural Perspectives in American Theatre [1]	
Select one of the following courses fulfilling the 'Design' requirement:		3
THEA 123	Lighting and Set Design	
THEA 131	Costume Design	
Electives (6 Units)		
Select two of the following: [2]		6
THEA 102B	Voice and Movement II	
THEA 109	Musical Theatre	
THEA 110	Acting Study III: Advanced Acting	
THEA 111	Audition Technique	
THEA 113	Acting Styles: Shakespeare	
THEA 115	Puppetry	
THEA 115A	Multicultural Puppetry [1]	
THEA 118	Children's Theatre	
THEA 140	Black Drama in the African Diaspora [1]	
THEA 175	Multicultural Perspectives in American Film [1]	
THEA 195	Fieldwork	
THEA 199	Special Problems in Theatre	
Total Units		48

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Electives **must** be determined in consultation with a faculty advisor.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (3-6 Units)		
C1 - Arts [2]		0
C2 - Humanities		3
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		40-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following' option:

- If student chooses to take THEA 115A, THEA 140, THEA 144/WOMS 144, THEA 170, THEA 173, THEA 174, or THEA 175, they will meet upper division Area C.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6-9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0 - 3
Graduation Requirements (required by Sacramento State) (9-12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [3]		0 - 3
Foreign Language Proficiency Requirement [4]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department offers students a 'select from the following' option:

- If student chooses to take THEA 170, they will meet the Writing Intensive (WI) graduation requirement.

[3] Department offers students a 'select from the following' option:

- If student chooses to take THEA 115, THEA 144/WOMS 144, THEA 174, or THEA 175, they will meet the Race and Ethnicity (RE) graduation requirement.

[4] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Minor in Dance

Units required for Minor: 18, 9 of which must be upper division

Program Description

The California State University, Sacramento Department of Theatre and Dance fosters student-learning to advance critically-thinking, creative and collaborative artists. It provides a broad and thorough foundation of the history, theory, literature and the practice of theatre and dance to students who wish to pursue post graduate studies or join the profession. The Department of Theatre and Dance offers an imaginative and ambitious program of historical and contextual studies supported by studio and production work. Our mission challenges students to be independent thinkers. Our department provides a collaborative, artistic environment that reflects a richly complex and diverse global perspective complemented by national and international faculty and staff experience.

Minimum Grade Requirement

A minimum grade of 'C-' is required of courses applied to the minor.

Program Requirements

Code	Title	Units
Technique (6 Units)		
Select one of the following:		2
DNCE 1A	Jazz Dance Level IA	
DNCE 1B	Jazz Dance Level IB	
DNCE 1C	Jazz Dance Level IC	
DNCE 2A	Contemporary Dance Level IA	

DNCE 2B	Contemporary Dance Level IB	
DNCE 2C	Contemporary Dance Level IC	
DNCE 3A	Ballet Level IA	
DNCE 3B	Ballet Level IB	
DNCE 3C	Ballet Level IC	
DNCE 4A	Tap Dance Level IA	
DNCE 4B	Tap Dance Level IB	
DNCE 4C	Tap Dance Level IC	
DNCE 5A	Mexican Folklorico Level IA	
DNCE 5B	Mexican Folklorico Level IB	
DNCE 5C	Mexican Folklorico Dance Level IC	
Select two of the following:		4
DNCE 11A	Jazz Dance Level IIA	
DNCE 11B	Jazz Dance Level IIB	
DNCE 11C	Jazz Dance Level IIC	
DNCE 12A	Contemporary Dance Level IIA	
DNCE 12B	Contemporary Dance Level IIB	
DNCE 12C	Contemporary Dance Level IIC	
DNCE 13A	Ballet Level IIA	
DNCE 13B	Ballet Level IIB	
DNCE 13C	Ballet Level IIC	
DNCE 111A	Jazz Dance Level IIIA	
DNCE 111B	Jazz Dance Level IIIB	
DNCE 111C	Jazz Dance Level IIIC	
DNCE 112A	Contemporary Dance Level IIIA	
DNCE 112B	Contemporary Dance Level IIIB	
DNCE 112C	Contemporary Dance Level IIIC	
DNCE 113A	Ballet Level IIIA	
DNCE 113B	Ballet Level IIIB	
DNCE 113C	Ballet Level IIIC	
Choreography (2 Units)		
DNCE 120	Dance Composition I	2
Production (4 Units)		
THEA 14	Stage Makeup and Costume Construction	3
or THEA 16	Stagecraft	
or THEA 20	Lighting	
THEA 120A	Practicum in Technical Production	1
or THEA 120B	Practicum in Technical Production	
or THEA 120C	Practicum in Technical Production	
History/Cultural Studies (3 Units)		
DNCE 130	Appreciation and History of Dance	3
or DNCE 131	Dance Cultures Of America	
Electives (3 Units)		
Select one of the following:		3
DNCE 6A	Hip Hop Level IA	
DNCE 6B	Hip Hop Level IB	
DNCE 6C	Hip Hop Level IC	
DNCE 22	Music for Dance	
DNCE 118	Dance Improvisation	
DNCE 122	Dance Composition II	
DNCE 132	African-Caribbean Dance	
DNCE 143	University Dance Company	
DNCE 142	Dance Science and Somatics	
DNCE 160	Creative Dance for Children	
THEA 121	Rehearsal and Performance	
Total Units		18

Minor in Musical Theatre

Units required for Minor: 18

Program Description

The California State University, Sacramento Department of Theatre and Dance fosters student-learning to advance critically-thinking, creative and collaborative artists. It provides a broad and thorough foundation of the history, theory, literature and the practice of theatre and dance to students who wish to pursue post graduate studies or join the profession. The Department of Theatre and Dance offers an imaginative and ambitious program of historical and contextual studies supported by studio and production work. Our mission challenges students to be independent thinkers. Our department provides a collaborative, artistic environment that reflects a richly complex and diverse global perspective complemented by national and international faculty and staff experience.

Minimum Grade Requirement

A minimum grade of 'C-' is required of courses applied to the minor.

Program Requirements

Code	Title	Units
THEA 11	Acting Study I	3
THEA 109	Musical Theatre	3
THEA 111	Audition Technique	3
THEA 121	Rehearsal and Performance [1]	1
DNCE 1		
DNCE 3A	Ballet Level IA	2
DNCE 4		
DNCE 6 or		
DNCE 11		
Total Units		12

[1] Credit MUST be from participation in the 'Outreach Show'

Minor in Theatre

Units required for Minor: 18

Program Description

The California State University, Sacramento Department of Theatre and Dance fosters student-learning to advance critically-thinking, creative and collaborative artists. It provides a broad and thorough foundation of the history, theory, literature and the practice of theatre and dance to students who wish to pursue post graduate studies or join the profession. The Department of Theatre and Dance offers an imaginative and ambitious program of historical and contextual studies supported by studio and production work. Our mission challenges students to be independent thinkers. Our department provides a collaborative, artistic environment that reflects a richly complex and diverse global perspective complemented by national and international faculty and staff experience.

Program Requirements

Code	Title	Units
Required Lower Division Courses (9 Units)		
THEA 2	History of the Theatre: Ancient to Renaissance	3
or THEA 3	Theatre History After 1660	
THEA 11	Acting Study I	3
Select one of the following:		3
THEA 14	Stage Makeup and Costume Construction	
THEA 16	Stagecraft	
THEA 20	Lighting	
Required Upper Division Courses (9 Units)		
THEA 120A	Practicum in Technical Production	1
THEA 121	Rehearsal and Performance	1
Select two of the following:		6
THEA 100	Script Analysis	
THEA 102A	Voice and Movement I	
THEA 102B	Voice and Movement II	
THEA 104	Acting Study II	
THEA 109	Musical Theatre	
THEA 110	Acting Study III: Advanced Acting	
THEA 111	Audition Technique	
THEA 113	Acting Styles: Shakespeare	
THEA 115	Puppetry	
THEA 115A	Multicultural Puppetry	
THEA 118	Children's Theatre	
THEA 123	Lighting and Set Design	
THEA 131	Costume Design	
THEA 140	Black Drama in the African Diaspora	
THEA/WOMS 144	Women and Theatre: Staging Diversity	
THEA 170	African American Theatre and Culture	
THEA 173	Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present	
THEA 174	Multicultural Perspectives in American Theatre	
THEA 175	Multicultural Perspectives in American Film	
THEA 195	Fieldwork	
THEA 199	Special Problems in Theatre	
Total Units		18

Subject Matter Program (English/Theatre)

Program scheduled for Suspension and is not currently admitting students. For more information, please contact the Theatre and Dance Department (p. 289).

Units required for Major: 55
Total units required for BA: 120

Program Description

The California State University, Sacramento Department of Theatre and Dance fosters student-learning to advance critically-thinking, creative and collaborative artists. It provides a broad and thorough foundation of the history, theory, literature and the practice of theatre and dance to students who wish to pursue post graduate studies or join the profession. The Department of Theatre and Dance offers an imaginative and ambitious program of historical and contextual studies supported by studio and production work. Our mission challenges students to be independent thinkers. Our department provides a collaborative, artistic environment that reflects a richly complex and diverse global perspective complemented by national and international faculty and staff experience.

Minimum Grade Requirement

The courses outlined below must be completed with a 'B' average.

Note: Students may also pursue a secondary teaching credential in English/Theatre. The requirements represent a 57-unit waiver program in the two departments.

Program Requirements

Code	Title	Units
Basic Core (27 Units)		
ENGL 40A	Introduction to British Literature I [1]	3
ENGL 50A	Introduction to American Literature I [1]	3
ENGL 50B	Introduction to American Literature II [1]	3
ENGL 110A	Linguistics and the English Language	3
ENGL 120A	Advanced Composition	3
ENGL 125A	Literature and Film for Adolescents	3
ENGL 125B	Writing and the Young Writer	3
ENGL 140		
ENGL 145B	Shakespeare - Early Plays, 1592-1600	3
or ENGL 145C	Shakespeare - Later Plays, 1600-1612	
THEA 174	Multicultural Perspectives in American Theatre [1]	3
Breadth and Perspective (28 Units)		
THEA 2	History of the Theatre: Ancient to Renaissance [1]	3
THEA 3	Theatre History After 1660 [1]	3
THEA 11	Acting Study I	3
THEA 16	Stagecraft	3
THEA 20	Lighting	3
THEA 100	Script Analysis	3
THEA 107	Directing	3
THEA 120A	Practicum in Technical Production	1
THEA 131	Costume Design	3
Select one of the following:		3
THEA 140	Black Drama in the African Diaspora [1]	
THEA/WOMS 144	Women and Theatre: Staging Diversity [1]	
THEA 170	African American Theatre and Culture [1]	
THEA 173	Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present [1]	
Total Units		55

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities		
C1 - Arts [2]		0
C2 - Humanities [2]		0
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		37

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6-9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0 - 3
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [3]		0
Foreign Language Proficiency Requirement [4]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department offers students a 'select from the following' option:
- If student chooses to take THEA 170, they will meet the Writing Intensive (WI) graduation requirement.

[3] Required in Major; also satisfies Graduation Requirement.

[4] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

World Languages and Literatures

College of Arts and Letters

Program Description

Sacramento State offers courses and/or degrees in the languages listed below. Refer to appropriate section of catalog for course descriptions and requirements.

Chinese - Minor
French - Bachelor of Arts, Minor
German - Minor
Italian - Minor
Japanese - Minor
Spanish - Bachelor of Arts, Minor, Master of Arts

In addition, coursework is available in:

Arabic
Korean
Punjabi

Special Features

- International Programs are offered in China, France, Germany, Italy, Japan, Quebec, Spain and Taiwan.
- Honor Societies exist for the areas of French, German, and Spanish. Language Clubs are organized for Chinese, French, German, Italian, Japanese, and Spanish. Community internships and field experience are offered in Chinese, French, German, Italian, Japanese, and Spanish.

Contact Information

Curtis Smith, Department Chair
Valeria Herrera, Administrative Support Coordinator
Mariposa Hall 2051
(916) 278-6333
Department of World Languages & Literatures Website (https://www.csus.edu/college/arts-letters/world-languages-literatures/)

Faculty

BARANOWSKI, EDWARD

BOTA, MIGUEL

BUFFARD, NICOLE

CARLE, BARBARA

ELSTOB, KEVIN

FLECK, JONATHAN

KIM, EUISUK

MASUYAMA, KAZUE

MAYBERRY, MARIA

RODRIGUEZ, JUDY

RUSSEL, BEATRICE

SMITH, CURTIS

VASSIL, KRISTINA

WADE, MARJORIE D.

Chinese

College of Arts and Letters

Program Description

Courses in Chinese encompass the study of Chinese language, literature, media, and culture. The primary emphasis is on Modern Standard Mandarin Chinese. Elementary Chinese courses (CHIN 1A through CHIN 1B) focus on reading, writing, and spoken Mandarin, based on Traditional Chinese characters. Upon completion of CHIN 2B, students will be able to converse at an elementary to intermediate level and to read and write Traditional and Simplified Chinese texts. The upper division courses form the nucleus of the minor and provide a foundation for advanced studies at other universities or graduate school. Upper division lecture courses taught in English are designed to help students appreciate the richness of Chinese culture, language, and literature in the tradition of general education.

An understanding of China, combined with proficiency in the Chinese language, will, in addition to the obvious academic and intellectual gains, make graduates more versatile and sought after in international business, education, social work, law enforcement, government, and Foreign Service positions.

Through language instruction, students will acquire the basic tools to communicate with the growing population of Chinese-speaking immigrants in California, to undertake travels in China, Taiwan, Hong Kong, and other Southeast Asian countries where Chinese are a major ethnic group, and to pursue further studies in Chinese history, culture, and society.

Students interested in further advanced study in Chinese may design a Special Major in Chinese by consulting program faculty and spending one year undergoing intensive language study at a Mandarin Training Center in Taiwan, China, or Hong Kong. The Asian Studies Program also offers a major with a concentration in Chinese Studies.

Degree Program

Minor in Chinese (p. 305)

Contact Information

Curtis Smith, Department Chair
Valeria Herrera, Administrative Support Coordinator
Mariposa Hall 2051
(916) 278-6333
Department of World Languages & Literatures Website (http://www.csus.edu/wll/)

Faculty

SMITH, CURTIS D.

CHIN 1A. Elementary Mandarin. 5 Units
Term Typically Offered: Fall only

Beginning Mandarin with emphasis on listening comprehension, speaking, grammar structure and character writing. The relationship between language and culture will also be emphasized. Includes an introduction to elements of Chinese culture that pertain to language, such as mode of thinking, inter-human relations, and aesthetic expressions.

CHIN 1B. Elementary Mandarin. 5 Units
Prerequisite(s): CHIN 1A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Spring only

Continuation of CHIN 1A, with growing emphasis on reading, writing, and listening. Chinese cultural patterns as reflected in the language, such as societal values and views of the world, will continue to be emphasized.

CHIN 2A. Intermediate Mandarin. 4 Units
Prerequisite(s): CHIN 1B or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall only

Intermediate Mandarin on the further development of reading, speaking, and writing skills. Emphasis will be placed on the shift from romanized script to Chinese characters. Introduction will also be made to simple prose reading. Meets the Foreign Language Graduation Proficiency Requirement.

CHIN 2B. Intermediate Mandarin. 4 Units
Prerequisite(s): CHIN 2A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Spring only

Continuation of CHIN 2A designed to further the development of reading, speaking and writing skills at the intermediate to intermediate-high level.

CHIN 110. Advanced Mandarin: Modern Chinese Fiction. 3 Units
Prerequisite(s): CHIN 2B or instructor permission.
Term Typically Offered: Fall, Spring

Taught exclusively in Mandarin as an introduction to Modern Chinese Fiction through a careful study of representative works from both the People's Republic of China and Taiwan.

CHIN 120. Chinese Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Presentation of formative cultural achievements of China through language and literature with a view to understanding present-day popular Chinese culture. A general survey conducted in English for students who are taking Chinese language courses and others who want a deeper appreciation of this important non-Western culture.

CHIN 130. Introduction to Classical and Literary Chinese. 3 Units
Prerequisite(s): CHIN 2A or equivalent
The classical Chinese language, also known as literary Chinese, is the doorway into the fascinating world of Chinese culture. It has been the primary form of communication for at least three thousand years. Although Classical Chinese uses many of the same characters as modern Mandarin Chinese, the syntax and diction are quite different. In this course, we will study the language through readings in early philosophical, historical, and poetic texts.

CHIN 150. Survey of Chinese Literature. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Spring only

Introduction to Chinese literature from classical times to the present. The various forms of Chinese prose, poetry, and novel will be surveyed through the selective reading of representative works (in English translation). Class is conducted in English.

CHIN 195. Fieldwork-Tutoring. 1 - 3 Units
Prerequisite(s): Advanced level fluency and instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division students in Mandarin or Cantonese. 3 hours of tutoring per week for each unit. May be taken for credit more than once. Credit/No Credit

CHIN 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on independent study. Admission requires the approval of the instructor by whom the work is to be supervised. Credit/No Credit

Minor in Chinese

Total units required for Minor: 12 upper division units in Chinese selected with the approval of the Chinese language advisor

Program Description

Courses in Chinese encompass the study of Chinese language, literature, media, and culture. The primary emphasis is on Modern Standard Mandarin Chinese. Elementary Chinese courses (CHIN 1A through CHIN 1B) focus on reading, writing, and spoken Mandarin, based on Traditional Chinese characters. Upon completion of CHIN 2B, students will be able to converse at an elementary to intermediate level and to read and write Traditional and Simplified Chinese texts. The upper division courses form the nucleus for a minor and provide a foundation for advanced studies at other universities or graduate school. Upper division lecture courses taught in English are designed to help students appreciate the richness of Chinese culture, language, and literature in the tradition of general education.

An understanding of China, combined with proficiency in the Chinese language, will, in addition to the obvious academic and intellectual gains, make graduates more versatile and sought after in international business, education, social work, law enforcement, government, and Foreign Service positions.

Through language instruction, students will acquire the basic tools to communicate with the growing population of Chinese-speaking immigrants in California, to undertake travels in China, Taiwan, Hong Kong, and other Southeast Asian countries where Chinese are a major ethnic group, and to pursue further studies in Chinese history, culture, and society.

Students interested in further advanced study in Chinese may design a Special Major in Chinese by consulting program faculty and spending one year undergoing intensive language study at a Mandarin Training Center in Taiwan, China, or Hong Kong. The Asian Studies Program also offers a major with a concentration in Chinese Studies.

Program Requirements

Code	Title	Units
Select International Studies program or upper division units in Chinese		9
CHIN 110	Advanced Mandarin: Modern Chinese Fiction	3
Total Units		12

Note: The prerequisite lower division language acquisition will generally be done through coursework, though an equivalency exam is available for those students who feel they may already be at the upper division level.

French

College of Arts and Letters

Program Description

The French program is a cultural resource to Sacramento State and the Sacramento community in general; it represents the French language, literature, and civilization of Europe and North America as well as other areas of the world where French is the common language.

The French program helps prepare its majors and minors for careers not only in teaching but in many other fields as well, such as business, journalism, and government service. To that end it offers courses that enable students to grow intellectually and to live and work successfully in areas where the French language is spoken.

The program reaches out to both the local and international communities. Students have the opportunity to study abroad as well as to tutor and teach in local schools. The French faculty pride themselves on being accessible to students and taking a keen interest in the students' individual achievements.

The Bachelor of Arts in French offers an exploration of the vast contribution that French language and culture have made to the world. The program gives courses in literature, culture, and language (there are also courses in translating and interpreting).

Students majoring in business often find a French minor to be an asset to their careers. Students majoring in other fields may minor in French if a large part of their professional literature is in French or because they

may work in a location where French is widely spoken; for others a French minor may meet graduate-degree requirements.

Degree Programs

BA in French (p. 308)

Minor in French (p. 309)

Subject Matter Program (p. 310)

Special Features

- An active French Club offers students the opportunity to participate in French-oriented cultural and social events and a chance to meet French people on an informal basis.
- Students are encouraged to spend part of their undergraduate careers in study abroad. Sacramento State sponsors exchanges with various universities in Quebec and a consortium of campuses of the University of Paris. The CSU has a Junior Year Abroad program in France at Aix-en-Provence. In addition, each year a Sacramento State graduate with a major in French is awarded a teaching assistantship in France with a salary from the French government. CSU students, with any major, may enroll for one year at a Canadian university. French majors, particularly, will find this program gives them a unique opportunity to become acquainted with French-Canadian culture and language. Summer language programs are available in Canada; students who achieve sufficient proficiency in French may attend a French-language university (information available from the Sacramento State Office of International Programs, Library 1001).

Career Possibilities

International Business Personnel · Trade and Commerce · Export/Import · Interpreter/Translator · Banking Representative · Buyer/Sales Representative · Foreign/Diplomatic Service · Airlines Personnel · Travel Industry · Media Personnel/Foreign Correspondent · Public Relations · US Immigration/Customs · US Information Agency · Peace Corps · Language Teacher · Bilingual/Foreign Secretary · Foreign Publications/Textbook Editor · Research Assistant

Contact Information

Curtis Smith, Department Chair
Valeria Herrera, Administrative Support Coordinator
Mariposa Hall 2051
(916) 278-6333
Department of World Languages & Literatures Website (http://www.csus.edu/wll/)

Faculty

BUFFARD, NICOLE

ELSTOB, KEVIN

RUSSELL, BEATRICE

FREN 1A. Elementary French. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the development of elementary linguistic skills, with emphasis on the spoken language. The relationship of the language to French civilization and culture is given special attention.

FREN 1B. Elementary French. 4 Units
Prerequisite(s): FREN 1A and a suitable score on placement exam; or instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of FREN 1A, with emphasis on reading, writing, listening and speaking. French culture and its relationship to language is given continued attention.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 2A. Intermediate French. 4 Units
Prerequisite(s): One year of college French, suitable score on placement exam; or instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Emphasis on speaking, reading and writing ability. Dialogues, discussions and compositions in French.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 2B. Intermediate French. 4 Units
Prerequisite(s): FREN 2A, suitable score on the placement exam; or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of FREN 2A.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 100. Phonetics and Pronunciation. 3 Units
Prerequisite(s): Four semesters of French or equivalent.
Term Typically Offered: Fall, Spring

Review and practice all the main phonetic features of the spoken French language. Complete familiarization with the international phonetic alphabet. Practice in written transcription and oral pronunciation of all vowel and consonant sounds in French. Review and practice characteristics of diction, articulation, intonation, the musical movement of the sentence and rhythm. Orthographic problems and the phenomena of spelling and pronunciation are integrated with all written and oral exercises. Elimination of specific pronunciation problems for English speakers (r/l, mute, e, nasals, final consonants, etc.).

FREN 101. Advanced Grammar. 3 Units
Prerequisite(s): FREN 2B or equivalent.
Term Typically Offered: Fall, Spring

Review of general principles of French grammar and its application in oral and written exercises. Presentation and application of complex structures. Conducted in French.

FREN 102. Advanced Conversation. 3 Units
Prerequisite(s): Four semesters of French or equivalent.
Term Typically Offered: Fall, Spring

Mastery of spoken French language through discussion of personal readings to develop vocabulary and syntactical skills. Conducted in French. May be taken for credit twice.

FREN 103. Advanced Composition. 3 Units
Prerequisite(s): FREN 101 or instructor permission.
Term Typically Offered: Fall, Spring

Special attention to help students learn the dynamics of good writing, become sensitive to style and develop ability to express their thoughts coherently, in essentially correct and well structured French prose. Conducted in French.

FREN 104A. French Translation (French-English). 3 Units
Prerequisite(s): Upper division status in French.
Term Typically Offered: Fall, Spring

Development of translating techniques applicable to texts in areas such as literature, sciences, journalism, history, art. Review and comparative study of French and English grammars and styles. Conducted in French.

FREN 104B. French Translation (English-French). 3 Units
Prerequisite(s): FREN 101 and upper division status in French.
Term Typically Offered: Fall, Spring

Development of translating techniques from English to French applicable to texts in such areas as business, culture and/or literature. Continued comparative study of French and English grammars and styles. Conducted in French.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 107. Business French. 3 Units
Prerequisite(s): Second year college level proficiency or equivalent; or instructor permission.
Term Typically Offered: Fall, Spring

Designed to create awareness of linguistic and crosscultural differences affecting effective communication between American and Francophone speakers in the world of business, and to provide added confidence in transactions and negotiations. Explores how to do business in France, how different business structures work and interact, and how to participate in everyday business activities. Particularly helpful to International Business students to enhance understanding of Francophone and European markets and to develop business oriented French language skills. Prepares student to obtain two different Business French Certificates offered by the Chamber of Commerce and Industries of Paris and the French Ministry of Education. Conducted in French.

FREN 109. French Language Practice. 3 Units
Prerequisite(s): FREN 2B.
Term Typically Offered: Fall, Spring

Practice with French conversation, reading, and vocabulary development; supervised individual and small-group instruction designed to develop French vocabulary, including the conversation, listening and reading skills necessary for advanced study in French. May be taken for credit three times.

FREN 110. Survey of French Literature. 3 Units
Prerequisite(s): FREN 101, FREN 103, FREN 109 or instructor permission.
Term Typically Offered: Fall, Spring

An introduction to French literature through texts of varied length from different time periods and genres with a focus on the use of language. Conducted in French.

FREN 111. Topics in Francophone Literature. 3 Units
Prerequisite(s): FREN 110, or equivalent; or instructor permission.
Term Typically Offered: Fall, Spring

Study of literary texts by Francophone writers with an emphasis placed on textual analysis and the relationship between text and context. Conducted in French.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 120. French Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Presentation of formative cultural achievements of the French world from its origins to the present, i.e., the origin of the French language. Contributions to European Renaissance, Baroque and Classicism, the Revolutionary and Romantic eras, and modern western culture.
Note: Open to non-majors. Course taught in English.

FREN 125. Quebec and French North America. 3 Units
Term Typically Offered: Fall, Spring

Development and significance of francophone culture in North America, notably Quebec, French Canada and Louisiana, are explored through historical events, social changes and artistic achievements. Introduces major cultural trends and traditions from the 17th century to the present through non-fiction, literary works and audio-visual presentations in art and music. French majors and minors are required to do all reading, research and papers in French.
Note: Upper division status required.

FREN 130. Culture Wars: From Knighthood to Revolution. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Study of the profound influence of culture wars through the interpretation of major French writers, philosophers and scientists ranging from the Middle Ages to the 18th century. All readings and lectures in English.
Note: Open to non-majors.

FREN 170. Seminar Conducted in French. 3 Units
Prerequisite(s): FREN 110.
Term Typically Offered: Fall, Spring

Seminar in French will be offered as needed.

FREN 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in French and instructor permission.
Term Typically Offered: Fall, Spring

Directed fieldwork in a project which uses language skills developed through previous study of French. Projects may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. May be taken more than once for credit. Does not apply to major.
Credit/No Credit

FREN 195. Fieldwork - Tutoring. 1 - 3 Units
Prerequisite(s): Native or near-native fluency in French, upper division status; or instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division French students under supervision of an instructor. Three hours of tutoring per week for each unit. Does not apply to major.
Credit/No Credit

FREN 196. Experimental Offerings in French. 3 Units
Term Typically Offered: Fall, Spring

Special courses will be scheduled as needed.

FREN 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

FREN 210. Studies in French Literature. 3 Units
Term Typically Offered: Fall, Spring

Studies of authors, periods, movements, genres, criticism or literary history.
Note: May be repeated for credit if subject matter is not repeated.

FREN 220. Studies in French Civilization. 3 Units
Term Typically Offered: Fall, Spring

Studies in French language and linguistics problems, e.g., history of the language, semiotics, stylistics, translating, interpreting and oral expression.
Note: May be repeated for credit three times if subject matter is not repeated.

FREN 230. Studies in the French Language. 3 Units
Term Typically Offered: Fall, Spring

Studies in French language and linguistics problems, e.g., history of the language, semiotics, stylistics, translating, interpreting and oral expression.
Note: May be repeated for credit if subject matter is not repeated.

FREN 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

FREN 500. Culminating Experience. 1 - 4 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate advisor.
Term Typically Offered: Fall, Spring

Completion of a thesis, project or comprehensive examination.

BA in French

Units required for Major: 36
Total units required for BA: 120

Program Description

The French program is a cultural resource to Sacramento State and the Sacramento community in general; it represents the French language, literature, and civilization of Europe and North America as well as other areas of the world where French is the common language.

The French program helps prepare its majors and minors for careers not only in teaching but in many other fields as well, such as business, journalism, and government service. To that end it offers courses that enable students to grow intellectually and to live and work successfully in areas where the French language is spoken.

The program reaches out to both the local and international communities. Students have the opportunity to study abroad as well as to tutor and teach in local schools. The French faculty pride themselves on being accessible to students and taking a keen interest in the students' individual achievements.

The Bachelor of Arts in French offers an exploration of the vast contribution that French language and culture have made to the world. The program gives courses in literature, culture, and language (there are also courses in translating and interpreting).

Note: A GPA of 2.75 is required in courses applied to the major.

Additional Information

- **Credit by Exam:** A maximum of 16 units in foreign language studies may be challenged, only 12 of which may be in French.
- **Junior Year in France:** Student planning to apply for admission to the overseas program should consult the department for information.
- **Foreign Language for Advanced Degree Requirements:** Many graduate degree programs require competence in one or more foreign languages, and French is often is recommended or required. Students planning advanced degree study in areas having foreign language requirements should five careful consideration to completing two or more years of a foreign language as part of their baccalaureate degree.

Program Requirements

Code	Title	Units
Required Lower Division Courses		
Student must demonstrate competency equivalent to successful completion of the following: [1]		
FREN 1A	Elementary French	
FREN 1B	Elementary French [2]	
FREN 2A	Intermediate French [2]	
FREN 2B	Intermediate French [2]	
Required Upper Division Courses (24 Units)		
Language		
FREN 100	Phonetics and Pronunciation	3
FREN 101	Advanced Grammar	3
FREN 102	Advanced Conversation	3
FREN 103	Advanced Composition	3
Literature		
FREN 110	Survey of French Literature	3
FREN 111	Topics in Francophone Literature	3
FREN 170	Seminar Conducted in French	3

Culture		
FREN 120	French Civilization [2]	3
Electives (9 Units)		
Select three of the following:		9
FREN 104A	French Translation (French-English)	
FREN 104B	French Translation (English-French)	
FREN 107	Business French	
FREN 109	French Language Practice	
FREN 125	Quebec and French North America	
FREN 196	Experimental Offerings in French	
Total Units		33

1. There are no specific lower division course requirements. However, students must demonstrate competency equivalent to successful completion of the listed courses before beginning upper division work.
2. Course also satisfies General Education (GE)/Graduation Requirement.

Note: Students majoring in French are encouraged to minor in another field of their choice.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (3 Units)		
C1 - Arts		3
C2 - Humanities [2]		0
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		40

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2,3]		0

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Minor in French

Units required for Minor: 12 units all upper division courses taught in French

Program Description

The French program is a cultural resource to Sacramento State and the Sacramento community in general; it represents the French language, literature, and civilization of Europe and North America as well as other areas of the world where French is the common language.

The French program helps prepare its majors and minors for careers not only in teaching but in many other fields as well, such as business, journalism, and government service. To that end it offers courses that enable students to grow intellectually and to live and work successfully in areas where the French language is spoken.

The program reaches out to both the local and international communities. Students have the opportunity to study abroad as well as to tutor and teach in local schools. The French faculty pride themselves on being

accessible to students and taking a keen interest in the students' individual achievements.

Students majoring in business often find a French minor to be an asset to their careers. Students majoring in other fields may minor in French if a large part of their professional literature is in French or because they may work in a location where French is widely spoken; for others a French minor may meet graduate-degree requirements.

Additional Information

- **Credit by Exam:** A maximum of 16 units in foreign language studies may be challenged, only 12 of which may be in French.
- **Junior Year in France:** Student planning to apply for admission to the overseas program should consult the department for information.
- **Foreign Language for Advanced Degree Requirements:** Many graduate degree programs require competence in one or more foreign languages, and French is often is recommended or required. Students planning advanced degree study in areas having foreign language requirements should five careful consideration to completing two or more years of a foreign language as part of their baccalaureate degree.

Program Requirements

Units required for Minor: 12 units all upper division courses taught in French

Note: Students are required to meet with a Minor Advisor for course selection.

Subject Matter Program

Program Description

The French program is a cultural resource to Sacramento State and the Sacramento community in general; it represents the French language, literature, and civilization of Europe and North America as well as other areas of the world where French is the common language.

The French program helps prepare its majors and minors for careers not only in teaching but in many other fields as well, such as business, journalism, and government service. To that end it offers courses that enable students to grow intellectually and to live and work successfully in areas where the French language is spoken.

The program reaches out to both the local and international communities. Students have the opportunity to study abroad as well as to tutor and teach in local schools. The French faculty pride themselves on being accessible to students and taking a keen interest in the students' individual achievements.

Additional Information

- **Credit by Exam:** A maximum of 16 units in foreign language studies may be challenged, only 12 of which may be in French.
- **Junior Year in France:** Student planning to apply for admission to the overseas program should consult the department for information.
- **Foreign Language for Advanced Degree Requirements:** Many graduate degree programs require competence in one or more foreign languages, and French is often is recommended or required. Students planning advanced degree study in areas having foreign language requirements should five careful consideration to completing two or more years of a foreign language as part of their baccalaureate degree.

Program Requirements

The requirements for a teaching credential in French are the same as those for the major. Candidates must contact the French Credential Program Coordinator, in the Department of Foreign Languages, to have their transcripts reviewed, to schedule an oral interview in French and to assess their subject matter competency. The Foreign Language Proficiency Examination in French may also be required.

Teaching credential candidates must also complete the Professional Education Program in addition to other requirements for a teaching credential. You may obtain information about the Professional Education Program from the Teacher Preparation Program Office, Eureka Hall 216, (916) 278-6403.

A minor in another subject which can lead to a Supplementary Teaching Credential is strongly recommended.

German

College of Arts and Letters

Program Description

Courses in German encompass the study of German language, literature, and culture. Language study begins with the imparting of the four basic language skills, namely, speaking, aural comprehension, reading, and writing. The teaching of these skills is provided as part of programs in liberal arts, in general education and in professional training, as well as a service for other degree programs.

The imparting of the basic language skills is the first and necessary step toward what is actually the liberal arts core of our curriculum: the upper division offerings. It is through the advanced language, literature, and culture courses that the students become familiar with the intricacies of another language and with the literary and cultural contributions made by the people who speak it.

Students who are considering the study of German should talk to a German faculty advisor. Each student minoring in German is assigned an advisor upon entry into the program. For assistance in obtaining an advisor, contact the Foreign Language Department office.

Teaching credential candidates must complete the Professional Education Program in addition to other requirements for a teaching credential. Consult a Department credential advisor for details. They may also obtain information about the Professional Education Program from theTeacher Preparation Program Office, Eureka Hall 216, (916) 278-6403.

Degree Programs

Minor in German (p. 312)

Subject Matter Program (p. 312)

Special Features

- Close cooperation between members of the German faculty and the Sacramento German community has provided students with an opportunity to improve their language abilities and to become familiar with German customs and traditions.
- In addition, the German Club on campus allows students to socialize with others of similar interests.

- The Sacramento State chapter of Delta Phi Alpha, the national German honor society, gives recognition and awards to outstanding students and scholars.
- The German program is supported by modern language laboratory facilities, a departmental library, and a collection of instructional materials.
- Students receive tutorial help from graduate exchange students and other graduate students.
- In order to acquire maximum proficiency in the use of the German language, students are encouraged to participate in the Sacramento State International Programs in Heidelberg or Tübingen, the student exchange program established with the Department of American Studies at the Johannes-Gutenberg Universität of Mainz, Germany, or the German-Education Student Exchange Program at the Pädagogische Hochschule of Flensburg, Germany, or the summer work abroad with the International Education Program.

Career Possibilities

International Business Personnel · Trade and Commerce · Export/Import · Interpreter/Translator · Banking Representative · Buyer/Sales Representative · Foreign/Diplomatic Service · Airlines Personnel · Travel Industry · Media Personnel/Foreign Correspondent · Public Relations · U.S. Immigration/Customs · U.S. Information Agency · Peace Corps · Language Teacher · Bilingual/Foreign Secretary · Foreign Publications/Textbook Editor · Research Assistant

Contact Information

Curtis Smith, Department Chair
Valeria Herrera, Administrative Support Coordinator
Mariposa Hall 2051
(916) 278-6333
Department of World Languages & Literatures Website (http://www.csus.edu/wll/)

Faculty

WADE, MARJORIE

GERM 1A. Elementary German. 4 Units
Term Typically Offered: Fall only

Focuses on the development of listening, speaking, and reading skills. Special attention will be given to the relationship of the language to the civilization and culture of the German-speaking countries.

GERM 1B. Elementary German. 4 Units
Prerequisite(s): GERM 1A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Fall, Spring

Continuation of GERM 1A. Speaking, listening, and reading skills are practiced and more emphasis is placed on the development of writing skills than in GERM 1A. Cultural introduction to the German-speaking countries is continued.

GERM 2A. Intermediate German. 4 Units
Prerequisite(s): GERM 1B or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of GERM 1B with review of grammar and with further development of reading ability but with a greater emphasis on active skills in speaking and writing.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

GERM 2B. Intermediate German. 4 Units
Prerequisite(s): GERM 2A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Spring only

Continuation of GERM 2A with greater emphasis on skills in writing.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

GERM 5A. German Language Practice. 3 Units
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Practice with German conversation and vocabulary; supervised individual and small-group instruction designed to develop German vocabulary, including conversation and listening skills at an intermediate level.
Note: Meets the Foreign Language Graduation Proficiency Requirement. May be taken for credit four times.

GERM 100. Advanced German Grammar. 3 Units
Term Typically Offered: Fall, Spring

Study of grammar and style and their practical application in writing and speaking.

GERM 105. Advanced German Language Practice. 3 Units
Term Typically Offered: Spring only

Supervised individual and small-group practice for upper-division students desiring to improve their German language skills, especially conversation, listening and vocabulary. Some written work may be assigned. May be taken for credit three times, but may count only once for major or minor credit.

GERM 140. Heroes, Dragons and Quests. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Exploration of the heroic adventures of the medieval knights in their quests for fame and love, with special attention to the bridal quest and the roles of their 'ladies': their social, political, and economic position, and their impact on life in the Middle Ages. Discussions will be based on the reading of selected Middle High German works in English translation.
Note: No German language requirement.

GERM 141. German Mythology and Legend. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Exploration of Germanic myth and legend and their impact on art and literature. Readings in English.
Note: No German language requirement.

GERM 142. German Folk Literature, Legend, and Lore. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Study of the traditional folk literature; fairy tales, folk tales, legends, ballads and folk songs; of the German-speaking people, their holiday traditions, festivals and social customs. Readings in English.
Note: No German language requirement.

GERM 143. King Arthur and the Knights of the Round Table in Germany. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Study of King Arthur and the knights of the Round Table in the German medieval romances read in English translation.
Note: No German language requirement. Course will be offered every two years.

GERM 150. German Civilization: Beginning to 16th Century. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Historical, social, and artistic forces in German civilization from the time of the Great Migrations to the Reformation. All readings and lectures in English.

GERM 151. German Civilization: 17th Century to Present. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Historical, social, and artistic forces in German civilization from the Reformation through the 20th century. All readings and lectures in English.

GERM 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in German and instructor permission.
Term Typically Offered: Fall, Spring

Directed fieldwork in a project which uses the language skills developed through previous study of German. The projects may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. May be taken more than once for credit.
Credit/No Credit

GERM 195. Fieldwork: Tutoring. 1 - 3 Units
Prerequisite(s): Native/near-native fluency in German; upper division status; instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division students of German under supervision of instructor. May be taken for credit more than once.
Credit/No Credit

GERM 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of instructor supervising the work.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on independent study.

Credit/No Credit

Minor in German

Units required for Minor: 12 upper division units.

Program Description

Courses in German encompass the study of German language, literature, and culture. Language study begins with the imparting of the four basic language skills, namely, speaking, aural comprehension, reading, and writing. The teaching of these skills is provided as part of programs in liberal arts, in general education and in professional training, as well as a service for other degree programs.

The imparting of the basic language skills is the first and necessary step toward what is actually the liberal arts core of our curriculum: the upper division offerings. It is through the advanced language, literature, and culture courses that the students become familiar with the intricacies of another language and with the literary and cultural contributions made by the people who speak it.

Students who are considering the study of German should talk to a German faculty advisor. Each student minoring in German is assigned an advisor upon entry into the program. For assistance in obtaining an advisor, contact the Foreign Language Department office.

Program Requirements

Units required for Minor: 12 upper division units.

Note: Students are required to meet with an advisor for course selection.

German Studies Options

No new majors are being accepted into the German BA at this time. Please consult a German Faculty Advisor for information regarding meeting subject matter certification requirements in preparation for a teaching credential and/or a special major in German with one year of study in Germany.

Additional Information

- **Residence Requirement:** Transfer students and students participating in International Programs must complete at least 6 upper-division units in German at Sacramento State.
- **Study in Germany:** Students are urged to participate in a study-abroad program through California State University International Programs.
- **Credit by Examination:** A maximum of 16 units in Foreign Language studies may be earned through examination, of which only 8 units may be in German.

Subject Matter Program

Program Description

Courses in German encompass the study of German language, literature, and culture. Language study begins with the imparting of the four basic language skills, namely, speaking, aural comprehension, reading, and writing. The teaching of these skills is provided as part of programs in liberal arts, in general education and in professional training, as well as a service for other degree programs.

The imparting of the basic language skills is the first and necessary step toward what is actually the liberal arts core of our curriculum: the upper division offerings. It is through the advanced language, literature, and culture courses that the students become familiar with the intricacies of

another language and with the literary and cultural contributions made by the people who speak it.

Candidates for a teaching credential in German must also complete the Professional Education Program in addition to other requirements for a teaching credential. Consult the German credential advisor for details and contact the Teacher Preparation Program Office, Eureka Hall 216, (916) 278-6403 for application procedures and requirements.

Note: A minor in another subject which can lead to a Supplementary Teaching Credential is strongly recommended.

German Study Options

No new majors are being accepted into the German BA at this time. Please consult a German Faculty Advisor for information regarding meeting subject matter certification requirements in preparation for a teaching credential and/or a special major in German with one year of study in Germany.

Additional Information

- **Residence Requirement:** Transfer students and students participating in International Programs must complete at least 6 upper-division units in German at Sacramento State.
- **Study in Germany:** Students are urged to participate in a study-abroad program through California State University International Programs.
- **Credit by Examination:** A maximum of 16 units in Foreign Language studies may be earned through examination, of which only 8 units may be in German.

Italian

College of Arts and Letters

Program Description

The Italian program offers its students a strong foundation in Italian language, literature, cinema, and civilization. Students who concentrate on Italian studies may teach in secondary schools, be admitted to graduate school, work in translating and interpreting firms, or work at the national or international level for Italian firms or American firms dealing with Italy. Statistics show that Sacramento State graduates are in graduate programs, are teaching Italian, or are working in international programs, using their preparation from the Sacramento State Italian program.

Degree Program

Minor in Italian (p. 314)

Special Features

- Students may enroll for a junior year abroad with the CSU International Program in Florence, for which they may receive units toward graduation.
- By enrolling in fieldwork courses, students can tutor or teach in local parochial schools.
- Students interested in further advanced study in Italian language and culture may design a Special Major in Italian by consulting program faculty and spending one year undergoing intensive language study in Italy. Policies relating to the special major are discussed in this catalog.

Contact Information

Curtis Smith, Department Chair
Valeria Herrera, Administrative Support Coordinator
Mariposa Hall 2051
(916) 278-6333
Department of World Languages & Literatures Website (http://www.csus.edu/wll/)

Faculty

CARLE, BARBARA

ITAL 1A. Elementary Italian. 4 Units
Term Typically Offered: Fall only

Focuses on the development of the four basic skills (understanding, speaking, reading, writing) through the presentation of many cultural components (two per week) which illustrate the Italian 'modus vivendi:' social issues, family, food, sports, etc.

ITAL 1B. Elementary Italian. 4 Units
Prerequisite(s): ITAL 1A or instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of ITAL 1A with greater emphasis on reading, writing. Addition of one reader which contains more cultural material (geography, political issues, government, fashion, etc.).

ITAL 2A. Intermediate Italian. 4 Units
Prerequisite(s): One year college Italian or suitable score on placement exam.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall only

Intermediate course in the Italian language with emphasis on speaking, reading and writing ability; review of grammar; discussions and compositions in Italian. Meets the Foreign Language Graduation Proficiency Requirement.

ITAL 2B. Intermediate Italian. 4 Units
Prerequisite(s): ITAL 2A or suitable score on placement exam.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of ITAL 2A. Meets the Foreign Language Graduation Proficiency Requirement.

ITAL 102. Italian Advanced Conversation. 3 Units
Prerequisite(s): ITAL 2B or instructor permission.
Term Typically Offered: Fall, Spring

Designed to develop oral fluency through free discussion on prepared topics, and supervised practice to develop audio-lingual skills at the advanced level. Course conducted in Italian. May be taken for credit twice.

ITAL 103. Advanced Grammar and Composition. 3 Units
Prerequisite(s): ITAL 2B or equivalent.
Term Typically Offered: Fall, Spring

Study of grammar and style and their application in oral and written exercises, in translations and in compositions.

ITAL 104A. Introduction to Italian Cinema I. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Italian Cinema from the 1940's to its Golden Period in the 1960's through the 1970's. Films will be viewed in their cultural, aesthetic and/or historical context. Readings and guiding questionnaires will help students develop appropriate viewing skills. Films will be shown in Italian with English subtitles.

ITAL 104B. Introduction to Italian Cinema II. 3 Units
Term Typically Offered: Fall, Spring

Focuses on Italian Cinema from the 1980's and the 1990's. The 'New Generation' of Italian Directors will be considered (Nanni Moretti, Gabriele Salvatores, Maurizio Nichetti, Giuseppe Tornatore, Roberto Benigni, Liliani Cavani, Fiorenza Infascelli, Francesca Archibugi, etc.) as well as current productions. Films will be shown in Italian with English subtitles.

ITAL 110. Introduction to Italian Literature I. 3 Units
Prerequisite(s): Upper division status and instructor permission.
Term Typically Offered: Fall only

Beginning and major developments of the literature of Italy from the Middle Ages through the Baroque period of the 17th Century. Analyzes the literary movements with emphasis on their leading figures, discussion of literary subjects, instruction in the preparation of reports on literary, biographical and cultural topics. Taught in Italian.

ITAL 111. Introduction to Italian Literature II. 3 Units
Prerequisite(s): Upper division standing and instructor permission.
Term Typically Offered: Fall, Spring

Major developments in the literature of Italy from the Enlightenment movement of the 18th Century through the 20th Century. Analysis of the literary movements with emphasis on their leading figures, discussion of literary subjects, instruction in the preparation of reports on literary, biographical, and cultural topics. Taught in Italian.

ITAL 130. Italian Civilization: The Dialogue Form It's Origins and European Context. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Focus on Italian civilization in a Mediterranean context. Allows students to develop a critical understanding of the dialogue in the context of Italian and Western Civilization, from its origins in Ancient Egypt and Greece, to its flowering in the Renaissance and its return during the Enlightenment, to its endurance in modern times. Issues emphasized are philosophical and literary movements in their historical contexts. Socratic dialogue and other related genres, the dialogue as a typical Renaissance form with a variety of perspectives (feminine, poetic, satirical, etc.) the Enlightenment thinkers in Italy and France and their modern heritage are studied. Taught in English.

ITAL 131. The Italian Renaissance and Its Influence on Western Civilization. 3 Units
Term Typically Offered: Fall, Spring

Taught in English, explores the phenomenon of the Italian Renaissance in its literary, artistic, religious, social, historical, scientific, and economic aspects through the analysis of the period's major works, and through films, slides, lectures and discussions. The issues to be emphasized are the uniqueness of the Italian contribution to new ideas and values, and their influence on Western Civilization. The students will learn to recognize the sources and the effects of the Italian Renaissance within the integrated context of Western culture and various fields of knowledge.

ITAL 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in Italian and instructor permission.
Term Typically Offered: Fall, Spring

Directed fieldwork in a project which uses the language skills developed through previous study of Italian. The projects may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. Can be taken more than once for credit.
Credit/No Credit

ITAL 195. Fieldwork - Tutoring. 1 - 3 Units
Prerequisite(s): Student with native or near-native fluency in Italian and upper division status; or instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division Italian students, under the supervision of an instructor. Three hours of tutoring per week for each unit.
Note: May be repeated until a maximum of 6 units is reached.

Credit/No Credit

ITAL 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

Minor in Italian

Total units required for Minor: 12

Program Description

The Italian program offers its students a strong foundation in Italian language, literature, cinema, and civilization. Students who concentrate on Italian studies may teach in secondary schools, be admitted to graduate school, work in translating and interpreting firms, or work at the national or international level for Italian firms or American firms dealing with Italy. Statistics show that Sacramento State graduates are in graduate programs, are teaching Italian, or are working in international programs, using their preparation from the Sacramento State Italian program.

Additional Information

- **Placement in Italian Courses**: Students should consult an advisor in Italian regarding the level at which to begin college Italian, as well as the choice and sequence of courses to take. Students who studied

Italian in high school must take a placement test. Arrangement for the placement test should be made with an advisor in Italian.

- **Transfers:** Students from other colleges must have their pattern of courses assessed by a Department advisor and complete at least one upper division Italian course in residence before the Department can approve a program.
- **Credit by Exam:** A maximum of 16 units in foreign language studies may be challenged, only 12 of which may be in Italian.
- **Junior Year in Italy**: Students planning to apply for admission to the overseas program should consult the Italian advisor and the Sacramento State Office of Global Education, Lassen Hall 2304, (916) 278-6686, for information.

Program Requirements

Code	Title	Units
ITAL 104A	Introduction to Italian Cinema I	3
ITAL 110	Introduction to Italian Literature I	3
ITAL 111	Introduction to Italian Literature II	3
ITAL 130	Italian Civilization: The Dialogue Form It's Origins and European Context	3
Total Units		12

The above requirements may be substituted as follows:

Code	Title	Units
ITAL 104A	Introduction to Italian Cinema I	3
or ITAL 102	Italian Advanced Conversation	
ITAL 110	Introduction to Italian Literature I	3
or ITAL 130	Italian Civilization: The Dialogue Form It's Origins and European Context	
or ITAL 104A	Introduction to Italian Cinema I	
ITAL 111	Introduction to Italian Literature II	3
or ITAL 130	Italian Civilization: The Dialogue Form It's Origins and European Context	
or ITAL 104A	Introduction to Italian Cinema I	
ITAL 130	Italian Civilization: The Dialogue Form It's Origins and European Context	3
or ITAL 103	Advanced Grammar and Composition	
or ITAL 131	The Italian Renaissance and Its Influence on Western Civilization	

Japanese

College of Arts and Letters

Program Description

A working knowledge of Japanese is increasingly becoming an important tool in the world of international business and foreign affairs; hence Sacramento State offers a minor program in the Japanese language. Coursework in Japanese may be applied toward other specially designed minors and majors such as Asian Studies, Anthropology, Humanities and Religious Studies, International Business, and International Affairs.

Degree Program

Minor in Japanese (p. 316)

Contact Information

Curtis Smith, Department Chair
Valeria Herrera, Administrative Support Coordinator
Mariposa Hall 2051
(916) 278-6333
Department of World Languages & Literatures Website (http://www.csus.edu/wll/)

Faculty

MASUYAMA, KAZUE

VASSIL, KRISTINA

JAPN 1A. Elementary Japanese. 5 Units
Term Typically Offered: Fall only

Develops elementary spoken Japanese, reading and writing in Kana and Kanji, and the practical skills required to effectively use the modern language. Emphasis on the culture, customs, and traditions of Japan.

JAPN 1B. Elementary Japanese. 5 Units
Prerequisite(s): JAPN 1A or instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement
Term Typically Offered: Spring only

Continuation of JAPN 1A, with emphasis on speaking, vocabulary, reading, grammar, speech patterns, and cultural knowledge. The Kana and Kanji writing systems, geography, and aspects of Japanese customs and manners are included.

JAPN 1C. Accelerated Elementary Japanese. 8 Units
This is an intensive introductory Japanese language course equivalent to one year of first-year Japanese (JAPN 1A and JAPN 1B) concentrated in one semester. Class meets four times a week for two hours a period and progresses at an accelerated pace. The course provides a solid foundation in the four language skills--listening, speaking, reading, and writing. In addition, students will acquire cultural knowledge necessary for appropriate communication and smooth functioning in Japanese society. Students enrolling in JAPN 1C must be able to read and write hiragana and katakana, the two basic phonetic syllabaries.

JAPN 2A. Intermediate Japanese. 4 Units
Prerequisite(s): JAPN 1A, JAPN 1B; or equivalent.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall only

Emphasis on speaking, reading, and grammatical skills through dialogues, discussions, and reading. Meets the Foreign Language Graduation Proficiency Requirement.

JAPN 2B. Intermediate Japanese. 4 Units
Prerequisite(s): JAPN 2A or equivalent.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Spring only

Continuation of JAPN 2A. Further development of speaking, reading, grammar, and composition skills. Meets the Foreign Language Graduation Proficiency Requirement.

JAPN 110. Introduction to Japanese Literature. 3 Units
Prerequisite(s): JAPN 2B or instructor permission.
Term Typically Offered: Spring only

Introduction to Japanese literature from the 10th century to the present. The various forms of Japanese classic and contemporary literature will be surveyed through the selective reading of representative works. Class will be conducted in both Japanese and English.

JAPN 116A. Language and Culture of the Japanese and the Japanese in America. 3 Units
Prerequisite(s): JAPN 2B or equivalent.
Term Typically Offered: Fall only

Designed to expose advanced students in Japanese to the practical use of modern Japanese.

JAPN 116B. Language and Culture of the Japanese and the Japanese in America. 3 Units
Prerequisite(s): JAPN 116A or instructor permission.
Term Typically Offered: Spring only

Continuation of JAPN 116A in more advanced modern Japanese.

JAPN 120. Japanese Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

A broad survey of Japanese civilization from ancient to contemporary times, focusing on the overarching themes of continuity and change. Exploration includes Japanese geography, traditional aesthetics, warrior ethos, rapid modernization, postwar culture, popular culture, among others. Materials drawn predominantly from the fields of literature, film, and history.

JAPN 128. Introduction to Japanese Popular Culture. 3 Units
Term Typically Offered: Fall, Spring

A survey of major forms of Japanese popular culture from the postwar period to the present with a focus on genre and narrative. Genres include anime, shojo manga, Jpop, popular fiction, and fashion. Among topics to be discussed are common themes, narrative form, global appeal, and fandom. Emphasis on close reading and analysis of the texts/films. No knowledge of Japanese language or culture is required.

JAPN 150. Advanced Japanese Grammar, Conversation. 3 Units
Prerequisite(s): JAPN 2B or instructor permission.
Term Typically Offered: Fall only

Review of general principles of Japanese grammar and study of advanced grammar and their application in oral and written exercises and projects such as speech, presentations, and translations.

JAPN 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in Japanese and instructor permission.
Term Typically Offered: Fall, Spring

Directed fieldwork in a project which uses the language skills developed through previous study of Japanese. The projects may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. Can be taken more than once for credit.
Credit/No Credit

JAPN 195. Fieldwork -- Tutoring. 1 - 3 Units
Prerequisite(s): Advanced students who have native or near native fluency or upper division status, or instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division Japanese students, under the supervision of an instructor. 3 hours of tutoring per week for each unit.
Credit/No Credit

JAPN 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects, or directed reading. Open only to students competent to carry on independent study.
Note: Departmental petition required.

Credit/No Credit

Minor in Japanese

Total units required for Minor: 12

Program Description

A working knowledge of Japanese is increasingly becoming an important tool in the world of international business and foreign affairs; hence Sacramento State offers a minor program in the Japanese language. Coursework in Japanese may be applied toward other specially designed minors and majors such as Asian Studies, Anthropology, Humanities and Religious Studies, International Business, and International Affairs.

Program Requirements

Code	Title	Units
JAPN 110	Introduction to Japanese Literature	3
JAPN 116A	Language and Culture of the Japanese and the Japanese in America	3
or JAPN 116B	Language and Culture of the Japanese and the Japanese in America	
JAPN 150	Advanced Japanese Grammar, Conversation	3
Select one of the following:		3
JAPN 116A	Language and Culture of the Japanese and the Japanese in America [1]	
JAPN 116B	Language and Culture of the Japanese and the Japanese in America [1]	
JAPN 120	Japanese Civilization	
JAPN 195	Fieldwork -- Tutoring	
JAPN 199	Special Problems	
Total Units		12

[1] Whichever course is not selected in the second 3 unit requirement above.

Spanish

College of Arts and Letters

Program Description

A working knowledge of Spanish will enable students to communicate with one of America's rapidly growing minority groups, as well as to benefit extensively from travel to foreign countries. Most coursework

lends itself to a practical acquisition of the necessary language skills for effective communication.

Coursework at the upper division and graduate level is equally distributed among four areas: linguistics, culture, Peninsular literature, and Hispanic American literature. Students with career plans in teaching, bilingual programs, translation and diplomatic services, as well as careers in public service requiring knowledge of Spanish, will find a balanced curriculum available at Sacramento State. The programs in Spanish also serve those students who plan on continuing their studies at the doctorate level by providing a thorough academic background in the language.

Students interested in Bilingual/Crosscultural programs should also contact the College of Education (916) 278-6840 for more details.

Many students find that the acquisition of skills in Spanish is a valuable adjunct to their career goals in other areas such as business administration, public administration, international relations, etc.

Degree Programs

BA in Spanish (p. 321)

Minor in Spanish (p. 324)

Subject Matter Program (p. 324)

HealthSPAN Certificate Program (p. 322)

MA in Spanish (p. 322)

- Graduate Program in Spanish Information (http://www.csus.edu/wll/spanish/ma-in-spanish/graduate-program.html)

Career Possibilities

International Business Personnel · Trade and Commerce · Export/Import · Interpreter/Translator · Banking Representative · Buyer/Sales Representative · Foreign/Diplomatic Service · Airlines Personnel · Travel Industry · Media Personnel/Foreign Correspondent · Public Relations · U.S. Immigration/Customs · U.S. Information Agency · Peace Corps · Language Teacher · Bilingual/Foreign Secretary · Foreign Publications/Textbook Editor · Research Assistant · Bilingual: Counselor, Social Worker, Civil Service, Law Enforcement Officer, Medical/Health Worker, Realtor, IRS/Franchise Tax Board · Court Interpreter

Contact Information

Curtis Smith, Department Chair
Valeria Herrera, Administrative Support Coordinator
Mariposa Hall 2051
(916) 278-6333
Department of World Languages & Literatures Website (http://www.csus.edu/wll/)

Faculty

BARANOWSKI, EDWARD

BLANC, MARIO

KIM, EUISUK

MAYBERRY, MARIA

SANTANA, MARIELA

SPAN 1A. Elementary Spanish. 4 Units
Term Typically Offered: Fall, Spring

Beginning Spanish language with primary emphasis on the development of audio-lingual skills. Attention will also be given to the interrelatedness of language and civilization and culture. Additional attention will be given to the development of reading and writing. Students will be expected to spend several hours per week in the language laboratory. Not recommended for students with any previous study of Spanish.

SPAN 1B. Elementary Spanish. 4 Units
Prerequisite(s): SPAN 1A, or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Fall, Spring

Continuation of SPAN 1A with a greater emphasis on the development of speaking, reading, writing, and listening skills. Cultural knowledge continues to be an important component: elements of Hispanic character, customs, and the way in which the Spanish and Latin American peoples view themselves and others in the world is studied.

SPAN 1C. Intensive Elementary Spanish. 6 Units
Prerequisite(s): Two years of high school Spanish or equivalent.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

This course emphasizes a rapid development of the four language skills--speaking, reading, writing, and listening--covered in the first two semesters of university Spanish. Cultural knowledge is also an important component of this course, and elements of Hispanic character, customs, and the way in which the Spanish and Latin American peoples view themselves and others in the world will be studied. Recommended for students who have had some previous study of Spanish, but need a quick review of the structures covered in the first two years of high school Spanish or the equivalent.

SPAN 2A. Intermediate Spanish. 4 Units
Prerequisite(s): One year of college Spanish, or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Oral, auditory, and written practice based on more advanced dialogue material and on short stories, plays, and the like. Attention to the development of reading fluency and to the extension of both active and passive vocabulary. Meets the Foreign Language Graduation Proficiency Requirement.

SPAN 2B. Intermediate Spanish. 4 Units
Prerequisite(s): SPAN 2A, suitable score on placement exam, or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of SPAN 2A. Meets the Foreign Language Graduation Proficiency Requirement.

SPAN 6A. Intermediate Spanish for Professionals I. 4 Units
Prerequisite(s): Three years of High School Spanish or instructor permission.
Term Typically Offered: Fall only

Conversational, reading and written practice based on dialogue material, presentations, and the like at the intermediate level of Spanish. The course includes specialized themes related to the professions, such as healthcare and related fields. Meets the Foreign Language Graduation Proficiency Requirement.

SPAN 6B. Intermediate Spanish for Professionals II. 4 Units
Prerequisite(s): SPAN 6A
Term Typically Offered: Spring only

Continuation of SPAN 6A. Students continue to practice conversational, reading and written practice based on dialogue material, presentations, and the like at the intermediate level of Spanish. The course will include specialized themes related to the professions, such as healthcare or related fields. Meets the Foreign Language Graduation Proficiency Requirement.
Note: Students will need to pay a fee to cover for the cost of the Spanish Proficiency Exam, which will be used for Assessment Purposes.

SPAN 7. Spanish Reading Proficiency. 3 Units
Prerequisite(s): SPAN 1A or two years of high school Spanish.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Designed to improve Spanish reading proficiency. Students will acquire the ability to understand various types of materials written in Spanish (e.g. news items, personal correspondence, technical material, short stories); follow essential points and ideas of special interest or knowledge. Students will demonstrate Spanish reading comprehension by their ability to translate and answer content questions in Spanish as well as English.

SPAN 42. Conversation In Spanish. 3 Units
Prerequisite(s): SPAN 2B or equivalent, or instructor permission.
Term Typically Offered: Fall, Spring

Conducted in Spanish, will further develop the audio-lingual skills that the students have acquired in their early Spanish language training. Emphasis will be placed on maintaining ideas and concepts in actual conversation situations, taken from topics of most interest to students.

SPAN 47. Introduction to Composition and Grammar Review. 3 Units
Prerequisite(s): SPAN 2B or equivalent.
Term Typically Offered: Fall, Spring

Develops the necessary skills to write with clarity, precision, and style. It emphasizes the proper use of the accents and the correct use of grammar.

SPAN 100. Introduction to the Study of Hispanic Literature. 3 Units
Prerequisite(s): SPAN 47.
Term Typically Offered: Fall, Spring

Introduction to literary theory and a practical application of the techniques of literary criticism.

SPAN 102. Spanish Phonetics. 3 Units
Prerequisite(s): SPAN 47 or equivalent.
Term Typically Offered: Fall, Spring

Study of the sound system of Spanish with some attention to comparison with English and the physiology of sounds. Drills to develop good pronunciation.

SPAN 103. Advanced Spanish Grammar. 3 Units
Prerequisite(s): SPAN 47 or equivalent or a '5' on the Spanish Language AP exam.
Term Typically Offered: Fall, Spring

Study of the specific components of Spanish grammar with particular emphasis on the Spanish verbal system, the subjunctive, and other problematic aspects of grammar. Will be of particular interest to those planning to teach Spanish as well as to the Spanish-speaking students.

SPAN 106. Advanced Spanish Composition. 3 Units
Prerequisite(s): SPAN 103 and completion of all lower division requirements.
Term Typically Offered: Fall, Spring

Increased practice in writing with emphasis on sentence and paragraph structure, and compositions to effectively convey meaning and ideas. Attention will be given to narrative, descriptive, expository prose, and dialogue, as well as to letters and other forms of written communication.

SPAN 110. Survey of Spanish Literature to 1800. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Fall only

Advanced readings, lectures, and discussions dealing with a panoramic view of Spanish literature from early works through the Golden Age and up to the 1800s.

SPAN 111. Survey of Spanish Literature from 1800 to the Present. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only

Continuation of SPAN 110; deals with literature from the Neoclassic period to the contemporary. Readings taken from works and genres of this period.

SPAN 113. Latin American Literature, Beginnings to Modernism. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Fall only

Study of the major writers and trends in Latin American literature from beginnings until Modernism.

SPAN 114. Latin American Literature, Modernism to Present. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only

Study of the major writers and trends in Latin American literature from Modernism to the present.

SPAN 115. Magical Realism. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only

Magic and the wonderful infra-mythical world of major contemporary Latin America writers are explored in this in-depth study of Magical Realism. Short stories and novels are examined as they create a marvelous 'other world' or reality. Authors studied include Gortazar, Carpentier, Bombal, Borges, Rulfo, Garcia Marquez, Fuentes, Sainz, Esquivel, and others.

SPAN 121. Spanish For Professionals. 3 Units
Prerequisite(s): SPAN 2A or equivalent.
Term Typically Offered: Fall, Spring

Designed to teach present and future public servants the necessary vocabulary and structures for effective communication in interviews, visits, etc. Some attention to local dialect differences.

SPAN 123. Topics in Spanish Literature. 3 Units
Prerequisite(s): SPAN 100
Term Typically Offered: Fall only

Topics in literature from Spain offered as needed. Typical topics are: Spanish novel through the Golden Age; 19th and 20th century Spanish novel; Spanish drama from the Middle Ages to the Golden Age; Spanish Contemporary drama.
Note: May be repeated for credit provided topic is different.

SPAN 129. Spanish Civil War. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

In-depth examination of the Spanish Civil War (1936-1939) focusing on its social, political, and cultural contexts. The course also examines the war's historical origins, immediate aftermath and implications for understanding modern Spain.
Cross listed: HIST 136.

SPAN 130. Contemporary Mexican Literature. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only

Inquiry into the significance of the individual in contemporary Mexican culture and his greater relationship to the cosmos as seen through his literature. May be of particular interest to the Mexican American.

SPAN 134. The Short Story in Latin America. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only

Development of the short story in Latin America with some introductory study of the North American short story by way of comparison. Selected readings from different countries where the short story has had an important development. Emphasis on the contemporary short story.

SPAN 142. Advanced Spanish Conversation. 3 Units
Prerequisite(s): SPAN 47.
Term Typically Offered: Fall, Spring

Increases language fluency and acquisition of new vocabulary through intensive conversational practice, based on topics of contemporary interest.

SPAN 151. Civilization and Culture of Hispanic America. 3 Units
Prerequisite(s): SPAN 47
Term Typically Offered: Fall, Spring

Readings, visuals, and discussion of the history, geography, anthropology, sociology, politics, economics, folklore, and artistic expression of the nations of Hispanic America.

SPAN 152. Civilization and Culture of Spain. 3 Units
Prerequisite(s): SPAN 47
Term Typically Offered: Fall, Spring

Reading and discussion of the history, geography, anthropology, sociology, political science, economics, folklore, music, art, and the dance as these areas relate to Modern Spain.

SPAN 153. Civilization and Culture of Mexico. 3 Units
Prerequisite(s): SPAN 47
Term Typically Offered: Fall, Spring

Reading and discussion of the history, geography, anthropology, sociology, political science, economics, folklore, music, art, and the dance of Mexico.

SPAN 159. Cultures of Latin America for the Professions. 3 Units
Prerequisite(s): SPAN 6A, 6B, and SPAN 121 or instructor approval.
Term Typically Offered: Spring only

Readings, visuals, and discussion of Latino/Hispanic culture and cross-cultural practices variation within Latin America as related to healthcare and other professions such as Criminal Justice, Social Work, Sociology, and Psychology.
Note: Students will need to pay a fee to cover for the cost of the Spanish Proficiency Exam, which will be used for Assessment Purposes.

SPAN 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in Spanish and instructor permission.
Term Typically Offered: Fall, Spring

Directed fieldwork in a project which uses the language skills developed through previous study of Spanish. The projects may include interpreting and translating for public and/or private agencies in Sacramento, teaching or tutoring in the community, or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. Can be taken more than once for credit.
Credit/No Credit

SPAN 195. Fieldwork -- Tutoring. 1 - 3 Units
Prerequisite(s): Advanced students with native or near-native fluency, upper division status ('U' exam), or instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division Spanish students, under the supervision of an instructor.
Credit/No Credit

SPAN 199. Special Problems. 1 - 3 Units
Prerequisite(s): Permission of instructor supervising work, the advisor, and the Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work, and enrollment will be limited to hardship cases.

Credit/No Credit

SPAN 201A. General Spanish Linguistics. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Depending upon the interest of the group, one topic of Spanish Linguistics will be chosen. The emphasis may be Comparative, Popular Spanish divergencies, or psycho- or socio-linguistics, especially the development of Mexican-American Spanish and the learning problems of bilinguals.

SPAN 201B. History of the Spanish Language. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Historical evolution of the Spanish language from Vulgar Latin to the present day with special emphasis on the phonetic and morphological changes involved in this evolution. Some attention will be devoted to Old Spanish readings as well as the differences between Old and Modern Spanish. Knowledge of Latin is helpful, but not required.

SPAN 201C. Contrastive Grammatical Structures of Spanish and English. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Analyzes the major differences between the grammatical system of Spanish and English, with particular emphasis on those areas of contrast which are vital to the teacher.

SPAN 201D. Applied Spanish Linguistics. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Application of linguistic theory, principally to the areas of language teaching and learning acquisition. Occasionally the application of linguistics to other fields may be examined.

SPAN 220A. Spanish Literature in the Middle Ages. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 220B. Spanish Literature in the Golden Age. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 220C. Spanish Literature in the 18th and 19th Centuries. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 220D. Contemporary Spanish Literature. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 224A. Spanish-American Literature to 1825. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Latin American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Beginnings of Spanish American Literature from the period of discovery and conquest through the colonial period until the end of the Wars of Independence in 1825. Covers the Renaissance, Baroque, and Neo-Classical Periods.

SPAN 224B. Spanish-American Literature, 1825 to 1880. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Latin American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Independence (1825) through 1880. Covers the following movements: Romanticism, Realism, and Naturalism and deals with selected authors.

SPAN 224C. Spanish-American Literature, 1880 to 1945. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Spanish American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 224D. Spanish-American Literature, 1945 to Present. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Spanish American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 250A. Civilization and Culture of Spain. 3 Units
Prerequisite(s): Graduate status with fluency in understanding, speaking, reading, and writing contemporary Spanish.
Term Typically Offered: Fall, Spring

Seminar examining aspects of the national character and personality of Spain as revealed through Hispanic social and literary studies from prehistory to 1700.

SPAN 250B. Civilization and Culture of Modern Spain. 3 Units
Prerequisite(s): Graduate status with fluency in understanding, speaking, reading, and writing contemporary Spanish.
Term Typically Offered: Fall, Spring

Seminar examining aspects of the character and personality of the various political, geographical, and cultural groups of Spain as revealed through the social and literary studies of Spain from 1700 to the present.

SPAN 250C. Civilization and Culture of Hispanic America. 3 Units
Prerequisite(s): Graduate status with fluency in understanding, speaking, reading, and writing contemporary Spanish.
Term Typically Offered: Fall, Spring

Seminar examining aspects of the character and personality of the various nations of Hispanic America as revealed through Hispanic-American social and literary studies. Attention will be given to the various ethnic groups found in Hispanic America.

SPAN 250D. Civilization and Culture of Mexico. 3 Units
Prerequisite(s): Graduate status with fluency in understanding, speaking, reading, and writing contemporary Spanish.
Term Typically Offered: Fall, Spring

Seminar examining aspects of the national character and personality of Mexico as revealed through Mexican social and literary studies.

SPAN 299. Special Problems. 1 - 3 Units
Prerequisite(s): Permission of instructor supervising work, the advisor, and the Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who have the required number of units in residence and who appear competent to carry on individual work. Enrollment will be limited to hardship cases. Only 3 units of upper division or 3 units of graduate division credit will be accepted for any one degree in Spanish.

Credit/No Credit

SPAN 500. Culminating Experience. 1 - 4 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Completion of a thesis, project or comprehensive examination.

BA in Spanish

Units required for Major: 42
Total units required for BA: 120

Program Description

A working knowledge of Spanish will enable students to communicate with one of America's rapidly growing minority groups, as well as to benefit extensively from travel to foreign countries. Most coursework lends itself to a practical acquisition of the necessary language skills for effective communication.

Coursework at the upper division and graduate level is equally distributed among four areas: linguistics, culture, Peninsular literature, and Hispanic American literature. Students with career plans in teaching, bilingual programs, translation and diplomatic services, as well as careers in public service requiring knowledge of Spanish, will find a balanced curriculum available at Sacramento State. The programs in Spanish also serve those students who plan on continuing their studies at the doctorate level by providing a thorough academic background in the language.

Students interested in Bilingual/Crosscultural programs should also contact the College of Education (916) 278-6840 for more details.

Many students find that the acquisition of skills in Spanish is a valuable adjunct to their career goals in other areas such as business administration, public administration, international relations, etc.

Minimum Grade Requirement

All Spanish majors must earn a grade of 'C' or better in all courses counted toward the major. SPAN 42 and SPAN 142 may be taken by challenge exam for Credit/No Credit only provided that student enrolls in course.

Required Lower Division Courses

It is assumed that Spanish majors will have completed the equivalent of college level elementary and intermediate Spanish in high school, at a community college, or by completing SPAN 2B[1] at Sacramento State, prior to beginning upper-division courses.

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Study Abroad Programs

Students having a 2.75 GPA average overall are eligible to apply for admission to the CSU International Programs in a Spanish-speaking country such as Chile, Mexico, or Spain for their junior or senior years or during graduate studies. Spanish skills must be sufficiently developed to permit satisfactory performance in a Spanish-language university; planning from the beginning of the freshman year is advisable. Programs are also available for beginning students in Spain and Mexico. For details, contact International Programs and Global Engagement and consult a member of the Spanish faculty about developing your language skills.

Program Requirements

Code	Title	Units
Required Lower Division Courses (3 Units)		
SPAN 47	Introduction to Composition and Grammar Review [1]	3
Required Upper Division Courses (36 Units)		
SPAN 100	Introduction to the Study of Hispanic Literature	3
SPAN 102	Spanish Phonetics	3
SPAN 103	Advanced Spanish Grammar	3
SPAN 106	Advanced Spanish Composition	3
SPAN 110	Survey of Spanish Literature to 1800	3
SPAN 111	Survey of Spanish Literature from 1800 to the Present	3
SPAN 113	Latin American Literature, Beginnings to Modernism	3
SPAN 114	Latin American Literature, Modernism to Present	3
SPAN 142	Advanced Spanish Conversation	3
SPAN 151	Civilization and Culture of Hispanic America	3
SPAN 152	Civilization and Culture of Spain	3
SPAN 153	Civilization and Culture of Mexico	3
Electives (3 Units)		
Select one of the following		3
SPAN 42	Conversation In Spanish	
SPAN 115	Magical Realism	
SPAN 121	Spanish For Professionals	
SPAN 123	Topics in Spanish Literature	

SPAN 130	Contemporary Mexican Literature	
SPAN 134	The Short Story in Latin America	
Total Units		42

[1] It is assumed that Spanish majors will have completed the equivalent of college level elementary and intermediate Spanish in high school, at a community college, or by completing SPAN 2B at Sacramento State, prior to taking SPAN 47.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		49

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Certificate Program in Healthcare Spanish

Total units required for certificate: 17

Program Description

The HEALS Certificate Program is designed to prepare students and professionals in the *healthcare fields* to serve healthcare needs of the growing Spanish-speaking population in California by being able to communicate with them.

Coursework in the HEALS program lends itself to a practical acquisition of specialized medical/healthcare terminology in Spanish and Hispanic cultural competence.

Certificate Requirements

Code	Title	Units
Required Lower Division (8 Units)		
SPAN 6A	Intermediate Spanish for Professionals I	4
SPAN 6B	Intermediate Spanish for Professionals II	4
Required Upper Division (9 Units)		
SPAN 121	Spanish For Professionals	3
SPAN 159	Cultures of Latin America for the Professions	3
SPAN 194	Field Experience/Internship	3
Total Units		17

MA in Spanish

Units required for the MA: 30

Program Description

The Master of Arts program in Spanish affords an opportunity for specialized work in Spanish linguistics, Peninsular and Latin American Literature, and in the cultures of the Spanish-speaking world. The program is of particular value to those who plan to teach Spanish at the secondary school level (or already do so) or in a community college, and to those who plan to continue working toward a doctorate in Spanish.

Admission Requirements

Admission as a classified graduate student in Spanish requires:

- a baccalaureate degree;
- a minimum 3.0 GPA in the last 60 units attempted;
- a satisfactory score on the Graduate Examination designed and administered by the Spanish Area of the Department of Foreign Languages. The student must take the Graduate Examination prior to entrance into any 200 series graduate course and must successfully pass the entire examination before being advanced to candidacy. The student may pursue graduate work while concurrently correcting any deficiencies noted as a result of the examination and must retake the exam sections failed only after the passage of one semester. Three-summer MA applicants will take the Graduate Exam during their first summer in the program and will retake any sections not passed during the second summer that they attend the program. Consult the Graduate Coordinator in Spanish regarding steps to complete this requirement; and
- completion of the following Sacramento State courses (or equivalents):

Code	Title	Units
SPAN 100	Introduction to the Study of Hispanic Literature	3
SPAN 102	Spanish Phonetics	3
SPAN 103	Advanced Spanish Grammar	3
One upper division course in Peninsular Literature		3
One upper division course in Latin American Literature		3
One upper division course in Hispanic culture		3
Total Units		18

Students not meeting all these requirements may be admitted with conditionally classified graduate status and work toward the MA degree while the admission requirements are being completed. (SPAN 102 and SPAN 103 may be met by challenge examination.) Units taken to remove admission requirement deficiencies do not count toward the MA program. Any such deficiencies will be noted on a written response to the admission application.

Admission Procedures

Applications are accepted as long as room for new students exists during the application filing period. The University operates under a completion deadline system; all transcripts and materials must be received by the filing deadline of March 1st. Only completed applications will be reviewed. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies:

- an online application for admission; and
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State.*

For more admissions information and application deadlines please visit the Office of Graduate Studies Website *(*http://www.csus.edu/gradstudies/*)*.

At the same time, each applicant must send by February 15th a separate application to the Spanish Graduate Coordinator (http://www.csus.edu/wll/spanish/ma-in-spanish/master-application-guidelines.html) in the Department of World Languages and Literatures consisting of:

1. A cover letter.
2. A one-page Statement of Purpose.
3. A five-page writing sample in Spanish that was graded by an instructor.
4. Two letters of recommendation if their BA is not from Sacramento State.
5. Official transcripts from all post-secondary institutions.

Departmental recommendation for Office of Graduate Studies acceptance into the MA in Spanish program is based on overall student scholastic achievement, the number of completed prerequisites, the quality of the applicant's writing in Spanish, and letters of recommendation.

For more admissions information and application deadlines please the Office of Graduate Studies website (http://www.csus.edu/gradstudies/) and the Department of World Languages and Literatures website (http://www.csus.edu/wll/spanish/ma-in-spanish/master-application-guidelines.html).

A decision regarding admission will be mailed from the Office of Graduate Studies approximately 6 weeks after the completion deadline.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 18 units in the graduate program with a minimum 3.0 GPA, including at least four 200-level courses; and
- taken the Writing Placement for Graduate Students (WPG) within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

The Advancement will list all of the courses presented for the degree and must be approved by the Spanish Graduate Coordinator and the Office of Graduate Studies.

Culminating Requirement

The comprehensive exams for the MA in Spanish can be taken in November or April. Students take an exam in each of the following areas: Spanish Linguistics, Spanish Peninsular Literature, Latin American Literatures, and Hispanic Culture. A passing grade is considered to be 80% or higher, and a student may only fail one exam, which must be re-taken the following semester.

Program Requirements

Code	Title	Units
Required Courses (24 Units) [1]		
Latin American Literature		
Select two of the following:		6
SPAN 113	Latin American Literature, Beginnings to Modernism	
SPAN 114	Latin American Literature, Modernism to Present	
SPAN 115	Magical Realism	
SPAN 130	Contemporary Mexican Literature	
SPAN 134	The Short Story in Latin America	
SPAN 224A	Spanish-American Literature to 1825	
SPAN 224B	Spanish-American Literature, 1825 to 1880	

SPAN 224C	Spanish-American Literature, 1880 to 1945	
SPAN 224D	Spanish-American Literature, 1945 to Present	
Spanish Literature		
Select two of the following:		6
SPAN 110	Survey of Spanish Literature to 1800	
SPAN 111	Survey of Spanish Literature from 1800 to the Present	
SPAN 123	Topics in Spanish Literature	
SPAN 220A	Spanish Literature in the Middle Ages	
SPAN 220B	Spanish Literature in the Golden Age	
SPAN 220C	Spanish Literature in the 18th and 19th Centuries	
SPAN 220D	Contemporary Spanish Literature	
Hispanic Culture		
Select two of the following:		6
SPAN 151	Civilization and Culture of Hispanic America	
SPAN 152	Civilization and Culture of Spain	
SPAN 153	Civilization and Culture of Mexico	
SPAN 250A	Civilization and Culture of Spain	
SPAN 250B	Civilization and Culture of Modern Spain	
SPAN 250C	Civilization and Culture of Hispanic America	
SPAN 250D	Civilization and Culture of Mexico	
Linguistics		
Select two of the following:		6
SPAN 201A	General Spanish Linguistics	
SPAN 201B	History of the Spanish Language	
SPAN 201C	Contrastive Grammatical Structures of Spanish and English	
SPAN 201D	Applied Spanish Linguistics	
Other Course Requirements (2-6 Units)		
Select 2-6 units of Spanish courses or a related field in consultation with the Spanish Graduate Coordinator [2]		2 - 6
Culminating Requirement (4 Units)		
SPAN 500	Culminating Experience (Thesis, Project, or Comprehensive Exam)	4
Total Units		30-34

[1] Take at least one 200-level course in each of the four categories; a minimum of 18 graduate level units required.

[2] The Graduate Coordinator will coordinate the examination process with the faculty involved.

Minor in Spanish

Units required for Minor: 20, 12 of which must be upper division courses
Minimum total units required for BA: 120

Program Description

A working knowledge of Spanish will enable students to communicate with one of America's rapidly growing minority groups, as well as to benefit extensively from travel to foreign countries. Most coursework lends itself to a practical acquisition of the necessary language skills for effective communication.

Coursework at the upper division and graduate level is equally distributed among four areas: linguistics, culture, Peninsular literature, and Hispanic American literature. Students with career plans in teaching, bilingual programs, translation and diplomatic services, as well as careers in public service requiring knowledge of Spanish, will find a balanced curriculum available at Sacramento State. The programs in Spanish also serve those students who plan on continuing their studies at the doctorate level by providing a thorough academic background in the language.

Students interested in Bilingual/Crosscultural programs should also contact the College of Education (916) 278-6840 for more details.

Many students find that the acquisition of skills in Spanish is a valuable adjunct to their career goals in other areas such as business administration, public administration, international relations, etc.

Study Abroad Programs

Students having a 2.75 GPA average overall are eligible to apply for admission to the CSU International Programs in a Spanish-speaking country such as Chile, Mexico, or Spain for their junior or senior years or during graduate studies. Spanish skills must be sufficiently developed to permit satisfactory performance in a Spanish-language university; planning from the beginning of the freshman year is advisable. Programs are also available for beginning students in Spain and Mexico. For details, contact International Programs and Global Engagement and consult a member of the Spanish faculty about developing your language skills.

Minimum Grade Requirement

All Spanish minors must earn a grade of 'C' or better in all courses counted toward the minor.

Program Requirements

Code	Title	Units
SPAN 100	Introduction to the Study of Hispanic Literature	3
SPAN 103	Advanced Spanish Grammar	3
One course from the SPAN 150 series		3
Select one of the following:		3
SPAN 106	Advanced Spanish Composition	
SPAN 121	Spanish For Professionals	
SPAN 142	Advanced Spanish Conversation	
Total Units		12

Subject Matter Program

Program Description

A working knowledge of Spanish will enable students to communicate with one of America's rapidly growing minority groups, as well as to benefit extensively from travel to foreign countries. Most coursework lends itself to a practical acquisition of the necessary language skills for effective communication.

Coursework at the upper division and graduate level is equally distributed among four areas: linguistics, culture, Peninsular literature, and Hispanic American literature. Students with career plans in teaching, bilingual programs, translation and diplomatic services, as well as careers in public service requiring knowledge of Spanish, will find a balanced curriculum available at Sacramento State. The programs in Spanish also serve those students who plan on continuing their studies at the doctorate level by providing a thorough academic background in the language.

Students interested in Bilingual/Crosscultural programs should also contact the College of Education (916) 278-6840 for more details.

Many students find that the acquisition of skills in Spanish is a valuable adjunct to their career goals in other areas such as business administration, public administration, international relations, etc.

Program Requirements

Spanish majors wishing to pursue a Single Subject Teaching Credential in Spanish should contact the Spanish credential advisor to have their transcript reviewed for courses currently required for the credential program and then have single subject competency assessed. Specific course requirements are the same as for the BA in Spanish plus successful completion of a proficiency examination in Spanish. The Single Subject Credential in Spanish is valid for teaching Spanish in grades K-12.

Teaching credential candidates must also complete the Professional Education Program in addition to other requirements for a teaching credential. Consult the department credential advisor for details. You may also obtain information about the Professional Education Program from the Teacher Preparation Credentialing Office, Eureka Hall 216, (916) 278-6403.

College of Business Administration

Mission Statement

The Sacramento State College of Business Administrative develops engaged, responsible, and inclusive leaders who enrich our communities.

Undergraduate Program Description

The College of Business Administration (CBA) offers a broad, professional education in Business. The Bachelor of Science program offers students a choice of 9 concentrations by which they may focus their goals. All students must choose a concentration to complete their requirements for the baccalaureate degree. Students who are uncertain about which concentration to choose are encouraged to select the General Management concentration, as it is the most comprehensive. The structure of the General Management concentration also provides an overlap with other concentrations, thus making changes in focus possible. Students who wish a more customized program may elect to complete the requirements for additional concentrations as well. For example, students may elect dual concentrations such as General Management and Management of Human Resources and Organizational Behavior. For more information about program options, contact Undergraduate Business Advising Center, Tahoe Hall 1030, (916) 278-BIZZ (2499).

The College offers Minors in Business Administration, Human Resources Management, Marketing, Real Estate and Land Use Affairs, and Risk Management and Insurance. A Minor in Business Administration is valuable to the student majoring in another area who wishes to supplement his/her knowledge with a business background.

For more information about the College of Business Administration, please click here (http://www.csus.edu/cba/).

Concentrations

BS: Accountancy / Entrepreneurship / Finance / General Management / Management of Human Resources and Organizational Behavior / International Business / Management Information Systems / Marketing/ Supply Chain Management.

Graduate Program Description

The College offers several general and specialized business graduate degree programs. They include Master of Business Administration (MBA), International Master of Business Administration (IMBA), Master of Business Administration for Executives (EMBA), Master of Science in Accountancy (MS/ACCY),

Concentrations

MBA: Finance / Business Analytics in Healthcare/Entrepreneurship and Global Business

Special Features

- The College of Business Administration is fully accredited by the AACSB International-The Association to Advance Collegiate Schools of Business.
- Operating a class schedule from 7:30 a.m. to 9:00 p.m., the College is designed to facilitate the full- and part-time student.
- Graduate academic counselors are available in the Office of Graduate Programs, Tahoe Hall 1020. This office serves in all aspects of program advising and graduation evaluation approval for business students.
- The College of Business Administration has a Business Graduate Career Services Office that serves all MBA/graduate programs. Services include individual and customized career advising, employment and internship support, and professional development events. Services also include resume and document review, interview preparation, and job seeking strategies.

Centers And Institutes

Center for Small Business

The Center for Small Business provides technical business services to business enterprises and nonprofit institutions in the Sacramento area, in the areas of financial planning and budgeting, feasibility studies, market research, design of accounting systems, production planning and control, advertising strategies, capital budgeting, and management improvement programs. Gratuitous assistance is provided on a voluntary basis by students of the College with faculty members serving as experienced advisors to the students and their clients.
Sharyn Gardner, Faculty Director, (916) 278-7278.

Student Activities

The following organizations are affiliated with the College:

Honor Societies

Beta Alpha Psi

Beta Alpha Psi is an honorary organization for Financial Information students and professionals. This includes promoting the study and practice of accounting, finance and information systems; providing opportunities for self-development, service and association among members and practicing professionals, and encouraging a sense of ethical, social, and public responsibility.

Beta Gamma Sigma

Beta Gamma Sigma is the honor society serving business programs accredited by AACSB International - The Association to Advance Collegiate Schools of Business. Membership in Beta Gamma Sigma is the highest recognition a business student anywhere in the world can receive in a business program accredited by AACSB International. Invitations are sent to qualified students during the fall and spring semesters.

Student Organizations

- Accounting Society
- American Marketing Association
- Delta Sigma Pi
- Financial Management Association
- Gamma Iota Sigma
- Human Resource Management Association
- Management Information Systems Association
- MBA Networking Association
- Student Investment Fund
- Women in Business

Contact Information

Office of the Dean
William P. Cordeiro, Dean
Elizabeth Steiner, Executive Assistant to the Dean
Cyndy LaFitte, Budget Analyst

Tim Richter, Director of Development

Douglas, Evans, Marketing Specialist
Mylah Nurse, Administrative Coordinator

Tahoe Hall 1010

cba@csus.edu (http://catalog.csus.edu/colleges/business-administration/cba@csus.edu)

(916) 278-6578

College of Business Administration Website (http://www.cba.csus.edu)

Office of the Associate Dean for Faculty Support
Jaydeep Balakrishnan, Associate Dean
Angela Park-Girouard, Administrative Analyst

Phillip Booth, Faculty Personnel Analyst
Tahoe Hall 2130
(916) 278-5577

Office of Graduate Programs
Vacant, Director
Claire Goldsby, Administrative Coordinator
Vacant, Administrative Analyst
Serena Hoffman, EPP Advisor
Tahoe Hall 1020
(916) 278-5767

Business Graduate Career Services
Brent Bynum, Director
Tahoe Hall 2065
(916) 278-7142

Office of the Associate Dean for Academic Programs
Vacant, Associate Dean
Barbara (Mei Po) Vong, Administrative Analyst

Maryam Sabet, Academic Programs Coordinator & Enrolment Specialist

Tahoe Hall 2028

(916) 278-6463

Office of Student Engagement

BonnieMcDonald Beevers, Director

Vacant, Administrative Coordinator

Tahoe Hall 1030
(916) 278-BIZZ (2499)

Undergraduate Business Advising Center

Tahoe Hall 1030
(916) 278-BIZZ (2499)
Email the Undergraduate Business Advising Center (cba-ugrad@csus.edu)

MBA Program Services (MPS)

Sophie Mills, Graduate Recruitment & Admissions Coordinator

Jeanie Williams, Graduate Coordinator & MBA Advisor
Tahoe Hall 1020
(916) 278-6772
Email the MBA Program Services (cba-mbaadmissions@csus.edu)

Accounting

BS in Business Administration (Accountancy)

Units required for Major: 69
Total units required for BS: 120

Program Description

The objective of the Accountancy concentration is to provide conceptual and practical knowledge to students who will practice accounting or use accounting in business or other organizations. Students in Accountancy at Sacramento State have the opportunity to take courses of study in preparation for careers in public accountancy, private industry, and government. Studies in Accountancy give students a strong preparation in the fields of business, finance, insurance, banking, government agencies, tax authorities, and many other profit and nonprofit organizations. Some of these career opportunities may lead to professional certification such as Certified Public Accountants, Certified Internal Auditors, Certified Management Accountants, and Certified Governmental Financial Managers. An Accountancy undergraduate education provides a foundation for entry-level jobs and long-term careers in these areas, giving students familiarity with a range of employment opportunities.

Note: The use of the words “business administration” throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/ Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University’s Foreign Language Graduation Requirement. Students who change

major may be subject to the University's Foreign Language Graduation Requirement.

Note: At least 15 units of upper division business administration courses must be taken in residence at (or under the auspices of) California State University, Sacramento. Of these 15 units, a minimum of nine units must be in upper division courses in the concentration.

Pre-Requisite Requirements

A student **may not enroll** in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of 'C-' or better in each course and an overall GPA of 2.0 ('C'), with the exception of MATH 24 which requires a minimum acceptable grade of 'C' or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

Code	Title	Units
DS 101	Data Analysis for Managers	3
MGMT 102	Business Communications	3
HROB 101	The Management of Contemporary Organizations	3

Computer Literacy

All business majors must meet spreadsheet competency **prior** to taking upper division courses in the major. This requires completing MIS 10 (or equivalent).

Minimum Grade Requirements

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is "C-" with the exception of MATH 24 which requires a minimum acceptable grade of 'C' or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

Program Requirements

Code	Title	Units
Required Lower Division (Pre-Requisites) Courses (21 Units)		
ACCY 1	Accounting Fundamentals	3
ACCY 2	Managerial Accounting	3
ECON 1A	Introduction to Macroeconomic Analysis [1]	3
ECON 1B	Introduction to Microeconomic Analysis [1]	3
MATH 24	Modern Business Mathematics [1]	3
MGMT 10	Introduction to Business Law	3
STAT 1	Introduction to Statistics [1]	3
Total Units		21

[1] Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file the supplemental business application to officially apply to Business Administration as their major. Visit www.csus.edu/cba/ubac/impaction.html for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

Code	Title	Units
Required Upper Division (Major) Core Courses (24 Units)		
DS 101	Data Analysis for Managers	3
FIN 101	Business Finance	3
GM 105	Strategic Management	3
HROB 101	The Management of Contemporary Organizations	3
MGMT 102	Business Communications	3
MIS 101	Computer Information Systems for Management	3
MKTG 101	Principles Of Marketing	3
OPM 101	Operations Management	3
Total Units		24

Accountancy (ACCY) Concentration (24 units)

Code	Title	Units
Required Courses (15 Units)		
ACCY 111	Intermediate Accounting I	3
ACCY 112	Intermediate Accounting II	3
ACCY 121	Cost Accounting	3
ACCY 131	Survey of Auditing, Attest, and Assurance Topics	3
ACCY 171	Federal Tax Procedures I	3
Electives (9 Units)		
Select three of the following:		9
ACCY 113	Intermediate Accounting III	
ACCY 117	Advanced Accounting	
ACCY 122	Advanced Management Accounting	
ACCY 132	Accountants' Ethical and Professional Responsibilities	
ACCY 143		
ACCY 161	Government and Nonprofit Accounting	
ACCY 172	Federal Tax Procedures II	
ACCY 190	International Accounting	
ACCY 199	Special Problems in Accountancy	
AIS 141	Accounting Information Systems Development	
AIS 142	Enterprise and E-Commerce Accounting Models	
Total Units		24

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (10 Units)		
B1 - Physical Science		3
B2 - Life Forms		3

B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)	1
B4 - Math Concepts [2]	0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.	3
Area C: Arts and Humanities (12 Units)	
C1 - Arts	3
C2 - Humanities	3
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (9 Units)	
Area D Course	3
Area D Course	3
Area D Course [2]	0
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Business Administration (all concentrations) are exempt from the Foreign Language Graduation Requirement.

MS in Accountancy

Total units required for MS/ACCY: 30

Program Description

The **MS/ACCY** program is offered through collaboration between the College of Business Administration and the College of Continuing Education. The degree is offered by the College of Business Administration and administered through the College of Continuing Education.

The **MS/ACCY** program was developed in response to new developments in the accounting and business worlds. Increasingly, accountants who hold undergraduate degrees in accounting seek advanced degrees as the complexity of the accounting field increases. Accounting professionals are involved with an ever-widening range of careers including public accounting, corporate accounting, income tax accounting, not-for-profit accounting, and government accounting. Significant changes in the regulatory climate, including the Sarbanes-Oxley Act, have increased the need for graduate level education. One result is a heightened interest in forensic accounting, fraud detection, and information system security. The 150 credit-hour education requirement established by the American Institute of Certified Public Accountants (AICPA) also has significantly increased the demand for graduate education in accounting. The MS/ACCY program helps to qualify students to sit for professional accounting examinations that lead to credentials such as the CPA (Certified Public Accountant) and the CMA (Certified Management Accountant) designations. The MS/ACCY program uses an online platform to deliver a completely web-based degree. The MS/ACCY courses are only available through the College of Continuing Education

Admission Requirements

For students who have taken the GMAT, the five Admission Criteria are as follows:

1. Index #1 of 1050 or Index #2 of 1100 (see description below) AND
2. Minimum Total GMAT score of 500 AND
3. Minimum GMAT Quantitative percentile of 30 AND
4. Minimum GMAT Verbal percentile of 30 AND
5. Minimum 2.5 overall undergraduate GPA.

Index #1 - (index = (GPA x 200) + GMAT score). An index of 1050 is required using the overall undergraduate GPA.

Index #2 - (index = (GPA x 200) + GMAT score). An index of 1100 is required using the last 60 semester units (last 90 quarter units) undergraduate GPA.

Example: [3.0 GPA x 200] + 500 GMAT Score = 1100

For students who have not taken the GMAT, the Admission Criteria are as follows:

If the applicant has passed all four parts of the Certified Public Accountant examination but has not taken the GMAT, then a 500 GMAT score will be used to calculate admission indices #1 and #2. If the applicant has taken the LSAT but has not taken the GMAT, then the LSAT equivalent GMAT score will be used to calculate the admission indices #1 and #2. Actual GMAT scores take precedence over imputed GMAT scores as admission criteria for the CBA graduate business programs. LSAT minimum score of 150.

1. Index #1 of 1050 (see description above) OR
2. Index #2 of 1100 (see description above) AND
3. Minimum 2.5 overall undergraduate GPA.

The proof for passing the CPA exam must be evidenced by one of the following:

1. Unlicensed applicants must supply a copy of their CPA exam grade report sent by the State Board of Accountancy or
2. Licensed applicants must supply a copy of their CPA license.

Deadlines

Please see the CBA Web site for current admission deadlines: http://www.cba.csus.edu/graduate/ACCY (http://www.cba.csus.edu/graduate/ACCY/)

Application Procedures

All prospective graduate students must file the following documents with both the CBA Graduate Business Advising Center (GBAC) and the Sacramento State Office of Graduate Studies (River Front Center, 206) as noted below:

1. **To the College of Business Administration Graduate Business Advising Center, submit the following:**
   a. **One (1)** set of official transcripts[1]
   b. Results from GMAT, LSAT or CPA scores
   c. Recommendation Form Waiver
   d. **Two (2)** Recommendation Forms
   e. Current Resume.

   Mail all of the above documents to the following address:

   Graduate Business Advising Center (GBAC)
   Tahoe Hall, 1037
   College of Business Administration
   CSU, Sacramento
   6000 J Street
   Sacramento, CA 95819-6088
   Phone: (916) 278-6772
   FAX: (916) 278-4233
   Email: cba-gbac@saclink.csus.edu

   [1] *If you attend Sacramento State, you must request an official transcript. We cannot obtain one on your behalf. You may order transcripts from the Office of the University Registrar at their Web site*: csus.edu/gradstudies/forms/index (http://www.csus.edu/gradstudies/forms/). *If you attended additional schools besides Sacramento State, you must obtain official transcripts from those institutions, this includes community and junior colleges.*

2. **To the Sacramento State Office of Graduate Studies, submit the following:**
   a. Online CSU Graduate Application: (https://www2.calstate.edu/apply/graduate (https://www2.calstate.edu/apply/graduate/))
   b. $55 Application Fee (paid on-line when you file your application).
   c. Mail one (1) Set of Official Transcripts to the following address:

   Office of Graduate Studies
   River Front Center, Room 206
   CSU, Sacramento
   6000 J Street
   Sacramento, CA 95819-6122
   Phone: (916) 278-6470
   Email: gradctr@cba.csus.edu (gradctr@csus.edu)

Please Note: Applications are not considered complete and will not be reviewed unless you complete all the steps as directed. You must submit official transcripts from ALL colleges and universities previously attended. Submission of official transcripts and test scores must be received no later than the application deadline.

International Students

International students will **not** be issued an F-1 student visa for this program as it is a completely online program. You may apply but you will not be issued a student visa to come to the United States. All materials, inclusive of TOEFL scores, must be turned into the Office of Graduate Studies. To ensure consideration, international students should submit their material to the International Admissions Office one month prior to the above CBA application deadlines.

TOEFL

The University requires a minimum TOEFL score of 550 (paper based), 80 (internet based), or 213 (computer based).

To understand the guidelines for your country please go to http://www.csus.edu/gradstudies/futurestudents/applicantswithforeigndocuments/index.html (http://www.csus.edu/gradstudies/futurestudents/applicantswithforeigndocuments/). Click on your country for detailed information.

California State University, Sacramento interprets 'where English was the principal language of instruction' to mean that a school is located in a country where English is the native language (the daily medium of communication of the majority of the residents is English), and that the student received academic instruction in all subjects (except foreign language courses) at all levels of education in English.

Minimum Units and Grade Requirements for the Degree

Total units required for MS/ACCY: 30 (excluding foundation courses)
Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course is "C." No more than two (2) courses with a grade of "C" will be counted for satisfaction of graduate program requirements.

Advancement to Candidacy

A student's program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility

of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business Administration may apply to the Graduate Business Advising Center (GBAC) for advancement to candidacy for the Master's degree after s/he has completed at least 12 units of the program requirements beyond the Foundation requirements. Students with a GPA deficiency or who have not fulfilled the Writing Placement for Graduate Students Requirement (WPG) cannot advance to candidacy.

Program Requirements

Code	Title	Units
Program Requirements (27 Units)		
ACCY 250	Financial Reporting I	3
ACCY 260	Financial Reporting II	3
ACCY 261	Cost Analysis and Control	3
ACCY 262	Auditing	3
ACCY 263	Governmental and Non-Profit Accounting	3
ACCY 264	Taxation of Business Entities	3
ACCY 265	Advanced Accounting Information Systems Analysis and Controls	3
ACCY 266	Business Environment and Concepts	3
ACCY 269	Taxation of Individuals	3
Culminating Experience (3 Units)		
ACCY 501	Culminating Experience Project in Accounting and Ethics	3
Total Units		30

Business Administration

For more information regarding services and program options, please visit the CBA Web site at: www.csus.edu/college/business-administration/ (https://www.csus.edu/college/business-administration/)

Undergraduate Program Description

The College of Business Administration (CBA) offers a broad professional education in Business. The Bachelor of Science program offers students a choice of 9 concentrations by which they may focus their goals. Additionally, the CBA's Business Honors program provides an alternative path to its most capable students to prepare them for management opportunities. All students must choose a concentration to complete their requirements for the baccalaureate degree. Students who are uncertain about which concentration to choose are encouraged to select the General Management concentration, as it is the most comprehensive. The structure of the General Management concentration also provides an overlap with the other concentrations, thus making changes in focus possible. Students who wish a more customized program may elect to complete the requirements for additional concentrations as well. For example, students may elect dual concentrations such as General Management and Management of Human Resources and Organizational Behavior. For information about program options, please visit our website at: www.csus.edu/cba/ose (http://catalog.csus.edu/colleges/business-administration/business-administration/www.csus.edu/cba/ose/).

The College also offers Minors in Business Administration, Management of Human Resources and Organizational Behavior, Marketing, Real Estate and Land Use Affairs, and Risk Management and Insurance. A Minor in Business Administration is valuable to the student majoring in another area who wishes to supplement his/her knowledge with a business background.

Note: The use of the words "business administration" throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/ Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), Operations Management (OPM).

Degree Programs

BS in Business Administration (Accountancy)

BS in Business Administration (Entrepreneurship)

BS in Business Administration (Finance)

BS in Business Administration (General Management)

BS in Business Administration (International Business)

BS in Business Administration (Management of Human Resources and Organizational Behavior)

BS in Business Administration (Management Information System)

BS in Business Administration (Marketing)

BS in Business Administration (Supply Chain Management)

Business Honors Program

Minor in Business Administration

Minor in Management of Human Resources and Organizational Behavior

Minor in Marketing

Minor in Real Estate and Land Use Affairs

Minor in Risk Management and Insurance

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science, Master of Business Administration, and Master of Science are also individually accredited by the AACSB Internationally Association to Advance Collegiate Schools of Business.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure

or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Graduate Program Description

The College offers several general and specialized business graduate degree programs. They include: Master of Business Administration (MBA), Master of Business Administration for Executives (EMBA), International Master of Business Administration (IMBA), and Master of Science in Accountancy (MS/ACCY).

A key consideration for the EMBA Program is that it is tailored to the needs of full-time working professionals. The program is designed to meet the needs of highly engaged working executives and managers. The entire program can be completed within 15 months. The EMBA courses are only available through the College of Continuing Education.

The **MS/ACCY** program was developed in response to new developments in the accounting and business worlds. Increasingly, accountants who hold undergraduate degrees in accounting seek advanced degrees as the complexity of the accounting field increases. Accounting professionals are involved with an ever-widening range of careers including public accounting, corporate accounting, income tax accounting, not-for-profit accounting, and government accounting. Significant changes in the regulatory climate, including the Sarbanes-Oxley Act, have increased the need for graduate level education. One result is a heightened interest in forensic accounting, fraud detection, and information system security. The 150 credit-hour education requirement established by the American Institute of Certified Public Accountants (AICPA) also has significantly increased the demand for graduate education in accounting. The MS/ACCY program helps to qualify students to sit for professional accounting examinations that lead to credentials such as the CPA (Certified Public Accountant) and the CMA (Certified Management Accountant) designations. The MS/ACCY program uses an online platform to deliver a completely web-based degree. The MS/ACCY courses are only available through the College of Continuing Education.

Degree Programs

International Master of Business Administration (IMBA)

MBA (General)

MBA (Business Analytics in Healthcare)

MBA (Entrepreneurship and Global Business)

MBA (Finance)

MBA for Executives (EMBA)

MS in Accountancy

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science, Master of Business Administration, and Master of Science are also individually accredited by the AACSB Internationally Association to Advance Collegiate Schools of Business.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Academic Policies and Procedures

The following is a summary of the Policies and Procedures that are unique to the CBA. Students who wish to request deviation from these articulated policies and procedures must petition the CBA Academic Standards Committee. Undergraduate students should submit their petitions to the Undergraduate Business Advising Center (UBAC), Tahoe Hall 1030. For graduate students enrolled in the EMBA program please contact the Director for Executive and Professional Programs, Tahoe Hall 1020. All other CBA graduate students should contact the MBA Program Services (MPS), through Tahoe Hall 1030. The Committee will not hear requests from students that disregard catalog policy. To see the full statement, please go to the web address: www.csus.edu/cba/ (http://www.csus.edu/cba/).

Add/Drop Policies

Students are subject to being administratively dropped from business courses if they fail to meet academic standards for which they have not met the prerequisite requirements as prescribed by the CBA or by Sacramento State.

Rules for adding and/or dropping a course during the first few weeks of a semester differ substantially from the policies in effect after that period of time. Different procedures may apply for undergraduate and graduate students.

Adding Courses: Students normally enroll in courses during the registration period. After the registration period, students may be permitted to add courses only with the approval of the instructor and the Associate Dean for the Academic Programs..

Dropping Courses: The requirement for dropping selected courses becomes more difficult as the semester progresses. It is the responsibility of the student to maintain progress in each course in which the student is enrolled. Students who fail to continue in the course without an approved drop will receive a grade of "WU" or "F" for the course. Please visit the Academic Programs Office Tahoe Hall 2028. You may visit the Undergraduate Business Advising Center for Undergraduate courses. For students enrolled in the EMBA program, the MBA Program Services (MPS).

Course Repeat Policy

Undergraduate courses used for the CBA's major requirements may be repeated twice (for a total of three attempts). If the subject course is required and the student has not earned a grade of "A", "A-", "B+", "B", "B-", "C+", "C", or "C-" in three attempts, the student will be disqualified from the CBA. If the course represents a computer literacy requirement, and the student has not earned a grade of "A", "A-", "B+", "B", "B-", "C+", "C", "C-", or "CR" in three attempts, the student will not be allowed to enroll in the course a fourth time. However, the student may be given the

opportunity to demonstrate computer literacy by passing the appropriate examination.

Graduate students may repeat only two graduate courses — one at the Foundation level and one at the MBA/MS level.

Reinstatement Policy

Undergraduate Business Administration majors who have been disqualified from the University will not be allowed to enroll in 100-level business courses until they have been reinstated into the business major. In order for students to qualify to petition for reinstatement into the business administration major, they must be in good standing according to University standards. Undergraduate business students seeking reinstatement to the CBA must reapply to the major through the impaction process.

Graduate students must complete a Reinstatement Petition obtained in the MBA Program Services (MPS). Graduate students must file the petition with the MPS, including an explanation with relevant documentation supporting their request for reinstatement. The CBA Academic Standards Committee will review the petition.

Note: The only basis for reinstatement is the expectation (supported by evidence provided by the student) that the student is now likely to progress towards the satisfactory completion of the CBA's degree requirements in a timely manner.

Incomplete Grades

Under certain conditions, students may request a grade of "Incomplete." Students must be passing the course at the time an "Incomplete" is requested. The issuance of an "Incomplete" is appropriate only when required by University policy or in situations such as:

- the student misses a final exam for reasons that are fully justifiable in the eyes of the instructor; or
- the student was granted an extension of time to complete a class assignment.

Except in those cases specifically approved by University policy, the course instructor has sole discretion over what constitutes a fully justifiable reason for an "Incomplete."

Contract to Finish an Incomplete Grade

A petition for Incomplete Grade must be submitted with both the student's and course instructor's showing the work to be completed, the basis by which the student's final grade will be determined, the last date for completing the incomplete work, and the grade earned by the student at the time the petition was approved. All "Incomplete" grade petitions must be agreed to by the student, as indicated by the student's signature and date of signing. The contract must also be signed by the course instructor.

Open University Enrollment

The CBA restricts the enrollment in 100-level business courses through Open University to only six (6) units. The purpose of Open University is to provide opportunity for individuals from the community to enroll in certain courses for purposes of professional development. Matriculating and/or matriculated students in a CBA degree program are not to use Open University. See the Undergraduate Business Advising Center (TAH-1030) for undergraduate courses.

Simultaneous Course Enrollment

Students may not enroll in two or more courses that are offered on the same day and at the same time. In very rare circumstances, and with approval of the course instructors and the Associate Dean for the Academic Programs, students may enroll in courses that overlap by no more than 15 minutes.

Currency of Knowledge Requirement

All students must have what is considered "currency of knowledge" in courses they apply towards an earned degree. This applies to both majors and minors within the CBA. Courses that do not satisfy the currency of knowledge requirement must be repeated.

Currency of Course Prerequisites

All current course prerequisites must have been completed within seven years of enrolling in any course having prerequisites. This currency requirement may be waived in cases where more advanced courses in the same area than the listed prerequisites have been completed in the last seven years with a grade of "C-" or better.

Undergraduate Courses

Lower division courses used to satisfy major or minor requirements must have been completed within seven years of the date of admission to the business administration major or minor. Upper division courses used to satisfy graduation requirements must have been completed within seven years of the date of graduation.

The CBA Academic Standards Committee may grant credit for courses taken beyond the seven year requirement for extensive experience in the area. The burden rests upon the applicant to demonstrate how his/her experience satisfies the requirement of currency.

Graduate Courses

All program requirements, excluding the Foundation courses, must be completed within seven years of the date of expected graduation.

During the admission cycle, courses used to fulfill Foundation course requirements must have been completed within seven years of the date of admission. The CBA Academic Standards Committee, however, may approve currency for Foundation courses taken beyond the seven year requirement if a request is so filed. Waiving of the seven year requirement shall be based on the relevancy, level of responsibility, and duration of the applicant's work experience. The burden rests upon the applicant to demonstrate how his/her experience satisfies the requirement for currency.

Course Transfer Credit Articulated Courses

The CBA has articulation agreements with a number of community colleges. These agreements stipulate the CBA has agreed that certain identified undergraduate courses are deemed to be "equivalent" between the respective institutions, and therefore credit will be awarded for those courses taken at another (articulated) institution, towards a degree from Sacramento State. Approval of courses submitted for articulation is subject to currency of knowledge stipulations. See the following Web site for an up-to date list of articulated courses: www.assist.org (http://www.assist.org/web-assist/welcome.html).

Course Transfer Credit Non-Articulated Courses

Courses taken at an AACSB International accredited college of business will be accepted for transfer credit if the course is regarded as equivalent to the course for which credit is requested. Business core courses and concentration courses will not be accepted for transfer credit from programs that are not AACSB International accredited unless taken at institutions that have national or international reputations of high quality programs.

Petitions for equivalency for undergraduate, non-articulated courses must be submitted to the Undergraduate Business Advising Center (UBAC). Petitions for equivalency for graduate, non-articulated courses must be submitted to the MBA Program Services (MPS). For all other CBA graduate programs contact the Graduate Programs Office. The CBA Academic Standards Committee will evaluate whether the institution satisfies the requirement of "national or international reputations of high quality programs." Subsequently, faculty in the appropriate area will make the final determination of course equivalency, e.g., content, method of instruction, method of evaluating students, and/or course duration.

Change of Major

The undergraduate Business Administration Major is impacted. The students must meet the impaction criteria found at:

https://www.csus.edu/college/business-administration/undergraduate/impacted-major.html

Students who are declared in another major and wish to declare business administration as their minor, must file a Minor Request Petition. Students must complete and return these petitions to the Undergraduate Business Advising Center, Tahoe Hall 1030. The deadline for the fall semester is March 1st; for the spring semester the deadline is October 1st.

Career Possibilities

Accountancy Concentration

Account Executive · Accountant · Auditor · Bank Examiner · Budget Analyst · Budget Officer · Certified Fraud Examiner · Certified Information Systems Auditor · Certified Internal Auditor · Certified Management Accountant · Certified Public Accountant · Chief Financial Officer · Controller · Cost Accountant · Cost Analyst · Credit Analyst · Credit Manager · Estate Planner · FBI Agent · Franchise Tax Board Agent · Government Accountant · Government Auditor · Internal Auditor · Internal Revenue Service Agent · Investment Analyst · Loan Officer · Tax Accountant · Tax Consultant · Treasurer

Entrepreneurship Concentration

Business Development Manager · Family Business Owner/Manager · Financial Services Advisor · Franchised Business Owner/Manager · Insurance Agency Owner/Manager · Management Analyst · Management Consultant · New Venture Founder/Manager · Non-Profit Organization Founder/Manager · Product Manager · R&D Manager · Realtor/Real Estate Manager · Sales Representative · Small Business Owner/Manager

Finance Concentration

Account Executive · Actuary · Adjuster · Appraiser Asset Manager · Assessor. Bank Examiner · Banking Consultant · Budget Analyst · Claims Investigator · Commercial Broker · Commodity Broker · Compensation Insurance . Contractor/Builder · Disability Insurance Officer · Economic Development Analyst · Employee Benefits Specialist · Estate Planner · Escrow Officer · Estate Planner · Executive Controller · Finance Administrator · Financial Consultant · Financial Operations Officer · Financial Planner · Financial Statistician · Insurance Examiner/Officer · Insurance Account Executive · Investment Analyst/Officer · Life Underwriter · Land Developer · Land Use Planner · Leasing Manager · Leasing Representative · Lease Negotiator/Site Selection · Loan Officer · Mortgage Broker · Mortgage Loan Counselor · Planning Commissioner · Portfolio Manager · Property Manager · Real Estate Broker · Real Estate Lending Officer (Residential or Commercial) · Real Estate Market Research Analyst · Real Estate Securities Analyst · Real Estate Syndicator · Realty Consultant · Right of Way Agent · Sales Representative · Securities Analyst · Site Feasibility Consultant · Title Officer · Treasurer

General Management Concentration

Administrative Analyst · Business Manager · Bank Manager · Management Analyst · Management Consultant · Office Manager · Real Estate Manager · Small Business Entrepreneur · Strategic Planner

International Business Concentration

Banking Manager · Economic-Financial Consultant · Foreign Branch Officer · Global Sales Representative · Import /Export Agent · Import/Export Operations Manager · International Marketing Manager · Management Consultant · Multinational Operations Executive

Management of Human Resources and Organizational Behavior Concentration

Business Consultant · Business Executive · Career Development Specialist · Human Resources Manager · Industrial Relations Manager · Labor Negotiator · Management Analyst · Management and Business Consultant · Organization Development Consultant · Personnel Analyst · Personnel Development Specialist · Recruitment Manager · Small Business Owner · Training Specialist · Work Design Analyst

Management Information Systems Concentration

Business Applications Programmer · Communications Analyst · Database Administrator · Database Specialist · Desktop Support · End-user Consultant · Information Systems Manager · Information Systems Specialist · Management Systems Consultant · Programmer/Analyst · Systems Analyst · Technical Writer · Technology Consultant · Web Developer

Marketing Concentration and Supply Chain Management

Advertising Analyst · Advertising Executive · Brand Manager · Customer Relations Manager · Consultant · Direct Marketing Manager · E-commerce Analyst · Facility Planner · Logistics Manager · Manufacturers Representative · Marketing Analyst · Market Research Analyst · Marketing Manager · Material Planner · Merchandising Manager · Operations Analyst Operations Manager · Process Management Analyst · Production Control Manager · Product Manager · Production Manager · Production Planner/Scheduler Production Planner/Scheduler · Productivity Analyst · Project Manager Public Opinion Specialist · Public Relations Specialist · Purchasing Agent · Quality Control Manager . Research/Development Director · Retail Sales Representative · Retail Store Manager · Safety Manager · Sales Manager · Sales Representative · Service Manager · Social Marketing Specialist · Sports Promotion Director · Supply Chain Manager · Systems Analyst · Systems Manager · Warehouse Manager

Contact Information

Office of the Dean

William P. Cordeiro, Dean

Elizabeth Steiner, Executive Assistant to the Dean
Cyndy LaFitte, Budget Analyst

Tim Richter, Director of Development

Douglas Evans, Marketing Specialist

Mylah Nurse, Administrative Coordinator
Tahoe Hall 1010

(916) 278-6578 | cba@csus.edu (http://catalog.csus.edu/colleges/business-administration/business-administration/cba@csus.edu)

College of Business Administration Website (http://www.cba.csus.edu)

Office of the Associate Dean for Faculty Support
Jaydeep Balakrishnan, Assoicate Dean
Angela Park-Girouard, Administrative Analyst

Phillip Booth, Faculty Personnel Analyst
Tahoe Hall 2130
(916) 278-5577

Office of Graduate Programs
Vacant, Director
Claire Goldsby, Administrative Coordinator

Serena Hoffman, EPP Advisor

Tahoe Hall 1020

(916) 278-5767

Business Graduate Career Services
Brent Bynum, Director
Tahoe Hall 2065
(916) 278-7142

Office of the Associate Dean for Academic Programs
Vacant, Associate Dean
Barbara (Mei Po) Vong, Administrative Analyst

Maryam Sabet, Academic Programs Coordinator & Enrolment Specialist
Tahoe Hall 2028
(916) 278-6463

Office of Student Engagement
Bonnie McDonald Beevers, Director
Vacant, Administrative Coordinator
Tahoe Hall 1030
(916) 278-BIZZ (2499)

Undergraduate Business Advising Center
Tahoe Hall 1030
(916) 278-BIZZ (2499)
Email the Undergraduate Business Advising Center (cba-ugrad@csus.edu)

MBA Program Services (MPS)

Sophie Mills, Graduate Recruitment & Admissions Coordinator

Jeanie Williams, Graduate Coordinator & MBA Advisor
Tahoe Hall 1010
(916) 278-6772
Email MBA Program Services (cba-mbaadmissions@csus.edu)

Faculty

AHMED, ZAFOR

ASHTARI, SADAF

ASSADI, POORIA

BACH, SEUNG B.

BAGGER, JESSICA

BALDUS, BRIAN

BALTHAZARD, PIERRE

CATLIN, ELIZABETH

CATLIN, JESSE

CHINEN, KENICHIRO

CHOI, BEOM-JIN

CHOI, BEOMJOON 'PETER'

CORDEIRO, WILLIAM

DANTU, RAMAKRISHNA

DAVIS, CHARLES J.

DENG, FENG

ERYILMAZ, EVREN

FULLER, ANNE

FULLER, RYAN

GARDNER, SHARYN

GARG, SARGAM

HAN, YONGLIANG 'STANLEY'

IKROMOV, NURIDDIN

LEE, JAI JOON 'JAY'

LI, MIN

LI, YANG

LIN, ERIC C.

LIN, HAO

LIU, CAIXING

LIU, FENG 'Oliver'

LIU, LAN

LOJO, MAUREEN

MICHAEL, BONIFACE

MICKEL, AMY E.

MIKHAILITCHENKO, ANDREY

MOHAPATRA, PARTHA

MOORE, DAVID

MUBAKO, GRACE

NIU, KUEI-HSIEN 'JEFF'

OGILBY, SUZANNE M.

OZCELIK, HAKAN

PANGGABEAN, TOTA

PFORSICH, HUGH

PITRE, TERENCE

RICHARDS, JOSEPH

RIOLLI, LAURA

ROBERTS, ROSLYN

SHAO, PING 'TYRA'

SUN, YANG

TAYLOR, JOSEPH

TAYLOR, STANLEY A.

THAKUR, SUDHIR

TONG, PINGSHENG

TSAI, SAN-YUN W.

VARSHNEY, SANJAY

VELIANTIS, SPIROS

VYGODINA, ANNA

WHEELER, STEPHEN

WILSON, MARTHA C.

XIONG, YAN

YE, YUAN

ZHANG, JIN

ACCY 1. Accounting Fundamentals. 3 Units
Prerequisite(s): Entry Level Math (ELM) test of at least 36 or a CR grade in LS 7A.
Term Typically Offered: Fall, Spring

Accounting as the basis of an information system with emphasis on concepts and assumptions underlying data accumulation for financial reports. Includes the concepts of income determination and financial position, and the accounting for various types of ownership equities.

ACCY 2. Managerial Accounting. 3 Units
Prerequisite(s): ACCY 1.
Term Typically Offered: Fall, Spring

Use and reporting of accounting data for managerial planning, control, and decision making. Broad coverage of concepts, classification, and behavior of costs.

ACCY 111. Intermediate Accounting I. 3 Units
Term Typically Offered: Fall, Spring

In-depth knowledge of how financial information provides information about a company's: economic resources, obligations, and owner's equity; income and its components; and cash flows. Topics include the development and application of basic assumptions, principles and constraints underlying financial statements; the use of information derived from financial statements and the limitations of the information; and the use of accounting information to evaluate a company's return on investment, risk, financial, flexibility, liquidity, and operational capability. Students learn how to prepare financial statements.

ACCY 112. Intermediate Accounting II. 3 Units
Prerequisite(s): ACCY 111.
Term Typically Offered: Fall, Spring

Application of Generally Accepted Accounting Principles to the reporting of tangible and intangible assets, liabilities, and the capital section of the balance sheet. Other topics include the reporting of stock-based compensation and earnings-per-share.

ACCY 113. Intermediate Accounting III. 3 Units
Prerequisite(s): ACCY 111.
Term Typically Offered: Fall, Spring

Application of Generally Accepted Accounting Principles to revenue recognition and matching, pensions, leases, income taxes, accounting changes, interim financial statements, and segmental reporting. Students develop an in-depth knowledge of the preparation and the analysis of the cash flow statement.

ACCY 117. Advanced Accounting. 3 Units
Prerequisite(s): ACCY 111 and ACCY 112.
Term Typically Offered: Fall, Spring

Specialized topics in partnership accounting; consolidated statements; foreign currency translation and financial statements.

ACCY 121. Cost Accounting. 3 Units
Term Typically Offered: Fall, Spring

Importance of the allocation of costs; the cost allocation techniques available to accountants; the techniques used by management to maintain and create enterprise value, e.g., CVP analysis; the accountant's responsibility for the management of inventory; and the ethical consideration in internal reporting.

ACCY 122. Advanced Management Accounting. 3 Units
Prerequisite(s): ACCY 121.
Term Typically Offered: Fall, Spring

Accountant's responsibility to provide financial and no financial information to managers; the planning techniques available to accountants; managerial control techniques that enhance the maintenance and improvement of enterprise value, and short-run and long-run analyses.

ACCY 131. Survey of Auditing, Attest, and Assurance Topics. 3 Units
Prerequisite(s): ACCY 111, ACCY 112.
Term Typically Offered: Fall, Spring

Survey of topics in auditing as a control activity in society. Covers a variety of opportunities in the auditing profession including external auditing, internal auditing, compliance auditing, and operational auditing as well as fraud examinations. Topics include evidence and documentation, professional ethics, auditing computer systems, statistical sampling, and internal controls.

ACCY 132. Accountants' Ethical and Professional Responsibilities. 3 Units
Prerequisite(s): ACCY 111, ACCY 112.
Corequisite(s): ACCY 131.
Term Typically Offered: Fall, Spring

This course addresses professional responsibilities for the accounting profession, including the development of ethical standards, ethical reasoning, AICPA and California Codes of Professional Conduct, financial reporting fraud, corporate goverance, and other relevant topics.

ACCY 161. Government and Nonprofit Accounting. 3 Units
Prerequisite(s): ACCY 111
Term Typically Offered: Fall, Spring

Fundamentals of accounting and financial reporting for governmental units and institutions; accounting for various types of funds; accounting aspects of budgetary control.

ACCY 171. Federal Tax Procedures I. 3 Units
Term Typically Offered: Fall, Spring

Federal taxation concepts are used in effective decision making; a working knowledge of the concepts of gross income, deductions, tax rates, and property transactions as they pertain to C corporations, partnerships, S corporations, and individuals; and proficiency in the application of tax concepts as they pertain to business and individual taxpayers.

ACCY 172. Federal Tax Procedures II. 3 Units
Prerequisite(s): ACCY 171.
Term Typically Offered: Fall, Spring

Business entity formation, operation, and termination and business taxation principles and concepts used in effective decision-making. Students develop the ability to understand and apply business tax principles and the critical and analytical skills that are necessary in the study and application of taxation and tax law.

ACCY 190. International Accounting. 3 Units
Prerequisite(s): ACCY 111, Business Major
Term Typically Offered: Fall, Spring

Accounting concepts, principles, and methods applicable to multinational transactions and global corporations. Contents include the translation of financial statements, comparative accounting systems, financial reporting, currency risk management, international accounting standards and organizations, taxation problems, and the managerial aspects of multinational transactions.

ACCY 194. Cooperative Education Experience in Accountancy. 6 - 12 Units
Prerequisite(s): Minimum overall GPA of 2.75; instructor permission.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in accounting for the purpose of exposing the student to comprehensive accountancy experience in business, governmental, or service agencies.
Note: Open to upper division students, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

ACCY 195. Internship in Accountancy. 3 Units
Prerequisite(s): Completion of 15 units of upper division business courses at Sacramento State; minimum overall GPA of 2.75; instructor permission.
Term Typically Offered: Fall, Spring

Supervised work experience in accountancy for the purpose of increasing student understanding of the nature and scope of the operations of business, governmental, or service agencies. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to declared business administration upper division majors only, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

ACCY 196B. Exper Offer Accountancy. 3 Units
Prerequisite(s): AIS 141
Corequisite(s): ACCY 131
Term Typically Offered: Fall, Spring

A course in Accounting and Audit Analytics examines the changing technological environment in accounting and the role of data analytics in accounting. This course will help students to understand different structured and unstructured accounting data, and develop new analytic skills to make better accounting decisions. It will also improve student's ability to conduct audit analytical procedures, in accordance with financial reporting regulatory requirements.

ACCY 199. Special Problems in Accountancy. 1 - 3 Units
Prerequisite(s): Senior status or instructor permission.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.
Note: Open to declared business administration majors only.

Credit/No Credit

ACCY 220. Accountancy Teaching Experience. 3 - 6 Units
Term Typically Offered: Fall, Spring

Supervised experience of teaching lower division accountancy courses. Students will teach one section of ACCY 1 or 2 for each three units of credit. They may teach no more than two classes (6 units of credit) during any semester and be under direct supervision of an appropriate coordinator. To be eligible, students must register for nine units in addition to ACCY 220 and must have approval of the Department Chair. May not be used to satisfy any requirements in the CBA graduate programs. No student may earn more than twelve (12) units cumulative. Credit/No Credit

ACCY 240. Integrated Accounting Concepts. 3 Units
Term Typically Offered: Fall, Spring

Designed for students who enter the Master of Science Accountancy program without a Bachelor of Science in Accountancy or students who need to refresh their basic skills and understanding in record keeping, financial statement preparation and analysis, ethics in the practice of accounting, and internal controls through the use of comprehensive case study/practice set. Delivered via independent project work rather than lecture.

ACCY 250. Financial Reporting I. 3 Units
Term Typically Offered: Fall, Spring

Corporate financial reporting to external users in accordance with US Generally Accepted Accounting Principles (GAAP), including financial information about a company's economic resources, obligations, owners' equity, income, case flow, and use of information to evaluate a company's return on investment, risk, financial flexibility, liquidity, and operational capability.

ACCY 251. Foundations of International Accounting. 3 Units
Prerequisite(s): ACCY 250 or equivalent.
Term Typically Offered: Fall, Spring

The role of culture in accounting; comparative international financial and managerial accounting fundamentals; international financial statement analysis; international accounting standards and U.S. GAAP convergence; international business combinations; foreign exchange; international auditing; international taxation; and international capital flows.

ACCY 260. Financial Reporting II. 3 Units
Prerequisite(s): ACCY 250.
Term Typically Offered: Fall, Spring

In-depth study of technical financial accounting issues including accounting for pensions and leases, income tax, accounting changes, consolidated financial statements, and foreign currency.

ACCY 261. Cost Analysis and Control. 3 Units
Term Typically Offered: Fall, Spring

Fundamentals of cost accounting concepts and practice relating to cost accumulation, control, and analysis for managerial planning and decision making. Specific topics generally include product costing, standards, cost allocation, estimation, budgeting, transfer pricing, and performance evaluation. Emphasis is on current issues.

ACCY 262. Auditing. 3 Units
Term Typically Offered: Fall, Spring

Study auditing as a control activity in society. It covers a variety of opportunities in the auditing profession including external auditing, internal auditing, compliance auditing, and operational auditing as well as fraud examinations. Topics include evidence and documentation, auditing computer systems, and internal controls.

ACCY 263. Governmental and Non-Profit Accounting. 3 Units
Term Typically Offered: Fall, Spring

This course provides an in depth study of accounting and reporting for state and local governmental and non-profit entities. The course emphasizes the governmental reporting environment, the accounting for various types of funds, the accounting aspects of budgetary control, and the preparation of governmental financial information to be included in the Comprehensive Annual Financial Report. This course also emphasizes the key differences between governmental and non-profit organizations, and the financial accounting and reporting for non-profit organizations.

ACCY 264. Taxation of Business Entities. 3 Units
Term Typically Offered: Fall, Spring

Covers the topics for corporate tax, partnership tax, estate and gift tax, and tax planning. Corporate tax includes taxation of transactions between corporations and thier shareholders, transfers to corporations, dividends and non-liquidating distributions, stock redemptions, corporate liquidations, and S corporation. Partnership tax includes operation and liquidation, dissolution, sales, and exchange of partnership interests. Estate and gift tax addresses the types of transfers for federal gift tax.

ACCY 265. Advanced Accounting Information Systems Analysis and Controls. 3 Units
Term Typically Offered: Fall, Spring

Emphasis on the role of computer and information technology in the development, analysis, and operation of accounting information systems; may include advanced coverage of accounting transaction cycles, accounting systems planning and analysis, accounting system design, accounting systems implementation and operation, the accounting system internal control structure, data modeling and database design in accounting, computer fraud and security, and auditing of computer-based information systems.

ACCY 266. Business Environment and Concepts. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide understanding of knowledge and skills necessary for the general business environment and business operation. In addition, students are required to apply that knowledge in performing professional responsibilities. Topics include corporate governance, business cycles, global economic markets, business strategy, effect of financial management policies on accounting transactions, economic substance of transactions and their accounting implications, and budgeting/forecasting techniques.

ACCY 269. Taxation of Individuals. 3 Units
Term Typically Offered: Fall, Spring

Covers the required topics for tax form preparation for reporting individual incomes. Examines fundamental concepts in tax law and the underlying reasons for income identification, exemption, and deduction.

ACCY 270. Tax Research and Procedure. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring

Tax reporting and collection procedure; administrative and judicial procedures governing tax controversies; the rights and obligations of the taxpayer. Intensive training in performing and communicating tax research. Includes use of current database programs. Lecture basis, followed by 'hands-on' application of research methods.

ACCY 271. Tax Accounting Periods and Methods. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring

Concepts and principles of the overall cash, accrual and hybrid methods of tax accounting. Applications of specific methods such as: inventory costing and capitalization rules, installment sales, long-term contracts, and original issue discount/time value of money will be examined. Lecture format to present the underlying rules and concepts. Case studies will then be analyzed and discussed by the students to examine the topics in a 'real-world' context.

ACCY 272. Taxation of Business Enterprises I - Corporations. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring

Discusses federal tax law as it applies to corporations, including the following topics: special deductions, formation, distributions, and complete liquidations. Incorporates problem sets, case analysis, a corporate tax return project, and a research project to enhance analytical and critical thinking skills and compliance experience.

ACCY 273. Taxation of Business Enterprises II - Partnerships. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring

Discusses general concepts, acquisitions and basis of partnerships interests, operations, transfers of partnership interests, and distributions. Incorporates problem sets, a partnership tax return project, and research projects to enhance analytical and critical thinking skills and compliance experience and to develop students' technical proficiency in the application of partnership concepts.

ACCY 274. Estate, Gift and Trust Taxation. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring

Taxation of decedent's estate and lifetime gifts; valuation of property subject to estate and gift taxes; income taxation of estates and trusts; estate planning. Uses a lecture format to present the underlying rules and concepts. Case studies will then be analyzed and discussed by the students to examine the topics in a 'real-world' context.

ACCY 275. International Wealth and Asset Management. 3 Units
Term Typically Offered: Fall, Spring

Importance of global asset protection and wealth management; domestic Statutory and case law authorities of selected European, American and Asian countries as they relate to wealth protection and asset management; bi-lateral international agreements relating to wealth management and asset protection; Multilateral agreement affecting wealth management and asset protection; tax and legal liability minimizing models.

ACCY 276. U.S.Taxation of International Transactions. 3 Units
Prerequisite(s): ACCY 272, Advanced to Candidacy.
Term Typically Offered: Fall, Spring

U.S. tax jurisdiction; U.S. source of income rules and related expense allocation; U.S. taxation of foreign taxpayers; transfer pricing issues; U.S. taxation of the foreign income of U.S. citizens and residents; cross border transactions; foreign currency tax issues; and U.S. bilateral tax agreements. Successful completion will satisfy the culminating experience for the MSBA/Taxation program. Students may select topics for their Master's projects that are outside the discipline topic of the class subject to the approval of the instructor.

ACCY 277. Comparative International Tax Systems. 3 Units
Term Typically Offered: Fall, Spring

The similarities and differences between current global tax systems including jurisdiction and conflict of laws issues; the role of bilateral international tax treaties and other international tax related agreements in business operations; international tax planning for individuals and multinational enterprise including corporations, partnerships and estates and trusts.

ACCY 278. International and Multi-State Taxation. 3 Units
Term Typically Offered: Fall, Spring

Focuses on the taxation of cross-border transactions which encompasses discussion of the laws, rules, and regulations that affect transactions that cross both state and national borders. It covers various issues such as income sourcing and jurisdiction to tax. This course generally discusses these issues from the perspective of a U.S. person, but emphasizes and illustrates the general applicability of these rules for the tax regimes as established by other countries and states.

ACCY 280. Management Control Systems. 3 Units
Term Typically Offered: Fall, Spring

Development of the concepts and practice of management control systems. How alternative accounting-based planning, performance motivation and evaluation, and control systems fit and are used in varying strategic, management, and operative environments. How systems focus and motivate managers' decision behavior. How systems fit and are used in varying decision, competitive, and organization settings. Emphasis is on cases.

ACCY 295. Internship in Accountancy. 3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's accounting operations. Supervision is provided by the faculty and the cooperating agencies. Open to MS in Accountancy students. Petitions are obtained from Tahoe Hall 1035.
Credit/No Credit

ACCY 296. Experimental Offerings in Accountancy. 3 Units
Term Typically Offered: Fall, Spring

When a sufficient number of qualified students apply, a faculty member may conduct a seminar on a designated advanced topic in accountancy.

ACCY 299. Special Problems in Accountancy. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of faculty member under whom the individual work is to be conducted in addition to the approval from the Department Chair of Accountancy. Petitions to be obtained from the CBA Graduate Programs Office, Tahoe Hall 1037.
Credit/No Credit

ACCY 500A. Thesis. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; completion of MGMT 210 is required for the MBA only.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree.

ACCY 500B. Project. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; completion of MGMT 210 is required for the MBA only.
Term Typically Offered: Fall, Spring

Completion of a project approved for the Master's degree.

ACCY 500C. Comprehensive Examination for MS/Accountancy and MSBA/Taxation Degrees. 1 - 3 Units
Prerequisite(s): Advanced to candidacy. For comprehensive examination for MBA only (MGMT 500C, 1 unit), completion of Program Requirements (ACCY 240, MGMT 222, MGMT 223, MGMT 234, MGMT 280, MIS 221, OBE 252). For comprehensive examination for MS/Accountancy and MSBA/Taxation degrees, student must be in final semester of program.
Term Typically Offered: Fall, Spring

Note: MS Accountancy degree, student must be in final semester of program.

ACCY 501. Culminating Experience Project in Accounting and Ethics. 3 Units
Prerequisite(s): Advancement to Candidacy
Term Typically Offered: Fall, Spring

Each student conducts an individual project to fulfill the culminating experience graduation requirement of the MS in Accountancy program as required in Title V of the CA Educational Code. The course also covers the development of ethical standards, ethical reasoning, AICPA Code of Professional Conduct, accountants' professional responsibilities, financial reporting fraud and responses, corporate governance, and other relevant topics.
Note: May be repeated for credit

AIS 141. Accounting Information Systems Development. 3 Units
Term Typically Offered: Fall, Spring

Design, analysis, and implementation of computer-based accounting information systems. Discussion of flow charting, data security, systems development, program architecture, and management of the implementation process. Development of computer applications and formulation of decision information for managerial uses. Use of the computer in projects.

AIS 142. Enterprise and E-Commerce Accounting Models. 3 Units
Prerequisite(s): AIS 141 or instructor permission.
Term Typically Offered: Fall, Spring

Survey of Enterprise Resource Planning (ERP) models, Business-to-Business (B2B) E-commerce models, and the effects of the changing business and technology landscape upon the accounting profession. Topics include internal control, auditing, and economics relating to these new business-process models.

AIS 194. Cooperative Education Experience in Accounting Information Systems Problems. 6 - 12 Units
Prerequisite(s): Minimum overall GPA of 2.75; instructor permission.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in accounting information systems for the purpose of exposing the student to comprehensive Accounting Information Systems experience in business, governmental, or service agencies.
Note: Open to upper division students, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

AIS 195. Internship in Accounting Information Systems. 3 - 6 Units
Prerequisite(s): Completion of 15 units of upper division business courses at Sacramento State; minimum GPA of 2.75 required; instructor permission.
Term Typically Offered: Fall, Spring

Supervised work experience in accounting information systems for the purpose of increasing student understanding of the nature and scope of the operations of business, governmental, or service agencies. Supervision is provided by the faculty and cooperating agencies.
Note: Open to declared business administration upper division majors only, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

AIS 199. Special Problems in Accounting Information Systems. 1 - 3 Units
Prerequisite(s): Senior status or instructor permission.
Term Typically Offered: Fall, Spring

Individual accounting information systems projects or directed reading for students qualified to carry on independent work.
Note: Open to declared business administration majors only. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

BHON 102. Business Communication. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Provides basic concepts for the understanding and practice of communication for managers and professionals. Examines the use of language and conversations in business settings and their role in coordinating actions, resolving breakdowns in work performance, and providing customer satisfaction. Topics include professional styles and formats of business writing and development of competence in business conversation skills (written, electronic and oral).

BHON 103. Business Legal Environment. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Investigates substantive law and stresses critical thinking and analytical evaluation of contemporary business legal issues. Identifies ethical concerns and addresses potential legal problems. Topics include an introduction to the legal system, court procedures, contracts and sales, real and personal property, labor and employment law, product liability, and the government regulation of business.

BHON 104. Fundamentals of Organizational Behavior. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

The course provides students frameworks to deal and work with members of work organizations, and focuses on how individual, group and organization-level factors influence employee attitudes and behaviors. The course further discusses challenges people face in today's dynamic work environment and global settings.

BHON 105. Introduction to Management Information Systems. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Explores the application of information technology in the organizational environment to assist in managerial decision making. Examines the alignment of IT and business strategy.

BHON 106. Business Data Analysis. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Applies statistical methods to solve business problems and inform managerial decision making. Topics include data analysis, statistical reasoning, model building and communication of statistical results. A statistical computer package is used in this course.

BHON 107. Business Finance. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Study of principles of finance and their application to typical financial problems of business enterprises. Topics include financial analysis, management of working capital, capital budgeting, long-term financing, dividend policy, internal financing, and time value of money.

BHON 108. Fundamentals in Marketing. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

An introduction to marketing concepts and principals. Examines the marketing function, its relationships with other business functions, and its role in the US and global economies.

BHON 109. Operations Management. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Introduces the basic concepts and methods used to analyze and improve operation performance in manufacturing and service organizations. Topics include operations strategy, process design and capacity management, inventory management, supply chain management, and operations planning and control.

BHON 120. Business Intelligence. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

Focuses on enterprise problem solving and decision making using information technology, and data and financial analyses for mission critical and integral applications in planning and control. Alternative solutions are examined and evaluated for their effectiveness in achieving results.

BHON 130. Value Chain and Supply Chain Management. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

Methods used for developing effective organizational value chains that integrate strategic planning, procurement, R&D, production, warehousing, distribution, and customer service to support business strategy. Includes critical decisions surrounding various organizational stakeholders, such as customer and supplier management, and the movement of goods and information throughout a supply chain network.

BHON 140. Enterprise Resource Planning and Infrastructure. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

Examines the design, planning, implementation and impact of enterprise-wide systems on the organization and infrastructure. Focuses on the integration and coordination of all facets of business, including production, accounting, finance, human resources, and marketing to improve the organization's resource planning, and management and operational control.

BHON 150. Entrepreneurship and Innovation. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

An application based course that provides a broad understanding of the new venture processes. Discusses fundamental tools and skills necessary to create, run, and grow a successful new venture. Offers a multidisciplinary framework for studying and developing innovative and creative capabilities of entrepreneurs.

BHON 160. Project Management. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

Methods and processes used for planning, controlling and managing projects. Includes project selection and scope, scheduling methodologies, economic analysis, the use of software, and life-cycle costing for managing different phases of projects. Emphasis on effective management of projects to achieve operational, managerial and strategic goals of organizations.

BHON 170. Strategy and Leadership. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

An introduction to traditional and contemporary theories of business strategy, corporate strategy and strategic leadership. Compares and contrasts theories in strategy and styles of strategic leadership through case studies, current research, and conversations with business leaders.

BHON 190. Practicum in Business. 1 Unit
Prerequisite(s): Currently enrolled in the business honors program.
Term Typically Offered: Fall, Spring

A series of forums that exposes students to practical business issues that have significant impact on the enterprise. Discussions with managers who have effectively led planning and operations. Compares and contrasts business concepts and principles to their practical applications.
Credit/No Credit

BUS 162. Project Management. 3 Units
Prerequisite(s): MGMT 102.
Term Typically Offered: Fall, Spring

Processes, methodologies, tools, techniques, software, economic analysis, and life-cycle costing for managing different phases of projects. Emphasis on effective management of projects to achieve operational, managerial, and strategic goals of organizations.

DS 101. Data Analysis for Managers. 3 Units
Prerequisite(s): MATH 24, STAT 1; must be a business pre-major, business major (any concentration), or business minor, and have at least sophomore standing
Term Typically Offered: Fall, Spring

Second course in business statistics that focuses on the application of statistical methods to business problems. Emphases are placed on case studies, data analysis, model building techniques, statistical reasoning, and communications of statistical results. A statistical computer package will be used in the course.

DS 110. Data Mining for Business Analytics. 3 Units
Prerequisite(s): DS 101 or STAT 103 or ENGR 115 or equivalent. Business, Computer Science, and Mathematics are approved majors to enroll in the course.
Term Typically Offered: Fall, Spring

Data mining methods including data visualization, classification (logistic regression, discriminant analysis), tree-based methods, cluster analysis, principle components analysis, factor analysis, neural networks, classification and regression trees, and facilitated through software. Focus on applications in the business environment.

DS 115. Management Science Techniques. 3 Units
Prerequisite(s): MATH 24, STAT 1; must be a business pre-major, business major (any concentration), or business minor, and have at least sophomore standing.
Term Typically Offered: Fall, Spring

Introduction to management science techniques for the solution and analysis of management problems. Topics include mathematical programming, decision theory, analysis of waiting lines, simulation, and Markov processes.

ENTR 185. Venture Growth Strategies. 3 Units
Prerequisite(s): Upper-division standing; ENTR 187 or ENTR 189.
Term Typically Offered: Fall, Spring

Focuses on the opportunities and challenges involved in the management of a business venture and its growth opportunities. Growth is the ultimate resource constrainer, stretching all the resources of a company to the limit and often beyond. Develops a venture spanning approach that examines the business venture and the challenges that tasks venture management to the limit. Provides students with a series of frameworks, analytical skills and techniques, heuristics, and decision-making tools that can be used in growing entrepreneurial businesses.
Note: Only students with an Entrepreneurship Concentration will be admitted.

ENTR 187. Entrepreneurship. 3 Units
Term Typically Offered: Fall, Spring

Objective is to lead students through all steps necessary in starting a business: analyzing personal and business goals, researching the market, developing a marketing plan, determining land, building, equipment, supplies, inventory, people needed, determining cash flow and pro forma financial statements, and money needed. The output of all this will be a professional business plan and financial package ready to submit to prospective investors.

ENTR 189. Corporate Entrepreneurship. 3 Units
Prerequisite(s): Upper-division standing.
Term Typically Offered: Fall, Spring

Offers a multidisciplinary framework for studying and developing corporate entrepreneurship. Covers the climate and culture of an entrepreneurial organization, strategies for developing new business ventures within an organization, and strategies for transforming firms toward a more entrepreneurially driven organization. As a result, students will increase their understanding of environment, processes and strategies that will create value and build competence through entrepreneurial activities within organizations.

FIN 19. Real Estate Principles. 3 Units
Term Typically Offered: Fall, Spring

Examination of real estate principles and practices necessary for the acquisition, financing, management, and disposition of real estate. Incidents of ownership, the brokerage business, state regulation and transactional ethics are emphasized.
Note: This course is required by the California Department of Real Estate prior to taking the real estate salesperson's examination.

FIN 101. Business Finance. 3 Units
Term Typically Offered: Fall, Spring

Study of principles of finance and their application to typical financial problems of business enterprises. Special emphasis on financial analysis, management of working capital, cost of capital, capital budgeting, long-term financing, dividend policy, and internal financing.

FIN 134. Financial Management. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Trends in the development of financial policy are analyzed and reports on specific aspects are presented in class. The student is placed in the position of the financial manager who must make decisions and implement them.

FIN 135. Investments. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Significant characteristics of numerous types of investments; securities markets and financial institutions; principles of investment analysis; investment management.

FIN 136. Modern Portfolio Management. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Asset management utilizing the major aspects of modern portfolio theory, portfolio construction and selection, portfolio performance evaluation, capital asset pricing models, and recent theoretical developments in asset pricing behavior.

FIN 137. Financial Institutions and Markets. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Designed to broaden understanding of the financial system to include the network of institutions which bring into existence the increasingly important substitutes for money in the traditional sense. Emphasis is given to flow of funds analysis within the context of emerging financial theories.

FIN 138. Principles of Risk Management and Insurance. 3 Units
Prerequisite(s): Must be a business major (any concentration) or Health Science major (Occupational Health & Safety concentration) or Real Estate & Land Use Affairs minor or a Risk Mgmt & Insurance minor
Term Typically Offered: Fall, Spring

Study of the concept of pure risk and its implications for decision making. Provides business students the basics of risk theory and its application to risk management or insurance purchasing using a personal consumer's viewpoint. Practical personalized examples and cases will be used to illustrate risk decision making, primarily on a personal basis, but also in selected business decisions. Topics include risk theory, social insurance, life insurance, pensions, medical coverage, workers' compensation, property insurances, and liability insurances. Ideal as a supplement to any business major, especially those making risk management or insuring decisions, including insurance company personnel, investment counselors, financial managers, real estate majors, employee benefits/personnel specialists, pre-law, and Occupational Health & Safety.

FIN 139. Business Property and Liability Insurance. 3 Units
Prerequisite(s): FIN 138 or instructor permission.
Term Typically Offered: Fall, Spring

Concentrated and analytical approach to the study of property and liability loss exposures for the business enterprise. While the emphasis is on the different types of business insurance coverage's, a risk management approach and examples are used. Topics include business property insurances; liability, especially workers' compensation; the SMP and CGL contracts; business auto, crime coverage's; bonds; transportation insurance; consequential coverage's; and capacity and other related marketplace problems. Case studies and problems, as well as a computer analysis are used. The course is an excellent supplement for insurance, finance, real estate and pre-law majors, small business owners, and anyone who will be making business financial decisions, or providing insurance products in the insurance industry. Successfully completing FIN 138 and 139 substitutes for the one-year experience requirement for those interested in taking the Insurance Broker's Licensing Exam.

FIN 140. Employee Benefits. 3 Units
Prerequisite(s): FIN 138 or instructor permission.
Term Typically Offered: Fall, Spring

Intensive and analytical examination of the employee benefit planning environment and its risk exposures. Using a risk management approach, the topical areas studied include mandatory programs, especially OASDHI and ERISA; health care; group life and disability; retirement income and capital accumulation plans; paid time off; family-centered benefits; flexible benefits and cafeteria plans; and benefit cost information. Case studies and extensive contact with the business community as well as team projects are required. This is an important class for specialists in human resources management, especially personnel, pre-law, and health care or those who will be providing insurance products to fulfill employment benefit needs.

FIN 141. Managerial Real Estate Law. 3 Units
Prerequisite(s): FIN 19
Term Typically Offered: Fall, Spring

Examination of the decision making process in land utilization transactions relative to the minimization of risks of legal confrontation. Traditional conflicts underlying real estate transactions are examined and principles of preventive law are derived. The management of litigation and transaction attorneys is considered. Court remedies that are pertinent to land utilization transactions are analyzed and compared to nonjudicial alternatives.

FIN 142. Real Estate Finance. 3 Units
Prerequisite(s): FIN 19 or ACCY 121 or FIN 101 or ENGR 140; Buisness Majors only
Term Typically Offered: Fall, Spring

Examination of the mechanisms of real estate finance, sources of funds, loan contracts, principles of mortgage risk analysis, and the role of group equity investment. The evolution of secondary mortgage markets, government policy, and market interference will be investigated from a risk management standpoint.

FIN 143. Real Estate Investment. 3 Units
Prerequisite(s): FIN 19 or ACCY 121 or FIN 101 or ENGR 140; business majors only
Term Typically Offered: Fall, Spring

Analyzes non-financial and financial factors influencing investment decision making in income producing property. Topics include: location and its linkages; methods of estimating demand for real estate; methods for evaluating competing supply; use of market analysis in decision making; development of cash flow statements, alternative investment criteria, risk, legal, financing, and tax analysis, operating, financing investment and reversion decisions.

FIN 149. Current Topics in Real Estate. 3 Units
Prerequisite(s): Completion of 9 units of required real estate courses.
Term Typically Offered: Fall, Spring

Examines contemporary and emerging issues in land use regulation, market analysis, mortgage markets, property markets, real estate cycles, real estate development, real estate finance and investments, real estate securities, real estate portfolio management, and/or real estate taxation.

FIN 150. Capstone in Professional Financial Planning. 3 Units
Prerequisite(s): ACCY 171, FIN 135, FIN 136, FIN 138 and FIN 140; FIN 136 and/or FIN 140 may be taken concurrently.
Term Typically Offered: Spring only

This course will engage the student in critical thinking and decision-making about personal financial management topics in the context of the financial planning process. The purpose of this course is to refine and develop skills needed for personal financial planners when working with individuals, families, and business owners in meeting financial needs and objectives.

FIN 190. Multinational Business Finance. 3 Units
Prerequisite(s): FIN 101 or instructor permission. Prior additional course in finance or international business recommended but not required.
Term Typically Offered: Fall, Spring

Principles of international financial management. Issues covered include the international environment of financial management, uses of foreign exchange spot, forward, futures, options, and swap markets, foreign exchange risk management, international investment and financing decisions.

FIN 194. Cooperative Education Experiences in Real Estate. 6 - 12 Units
Prerequisite(s): FIN 19, FIN 142 and a minimum overall GPA of 2.5; Business major only
Term Typically Offered: Fall, Spring

In-depth supervised work experience in Real Estate and Land Use Affairs. This supervised work experience allows the student to become familiar with the practices of the real estate industry and/or governmental agencies.
Note: Open to all upper division students subject to permission. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

FIN 195. Internship In Finance. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to upper division students, subject to permission of the Finance Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Open to declared business administration majors only.

Credit/No Credit

FIN 195A. Internship in Real Estate and Land Use Affairs. 3 - 6 Units
Prerequisite(s): FIN 19 and FIN 142. Minimum Sacramento State GPA of 2.5 required; open to declared business administration majors only
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies. Open to upper division students, subject to permission. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit

FIN 196A. Exper Offer Finance. 3 Units
Prerequisite(s): FIN 135 with a final posted grade of B- or higher and instructor's consent.
Term Typically Offered: Fall, Spring

Students will manage a real investment portfolio by applying theories of investment analysis and portfolio management. Topics include economic analysis, valuation theories, risk measurement and management, performance measurement, and benchmarking.

FIN 199. Special Problems in Finance. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

FIN 200. Financial Reporting and Analysis. 3 Units
Term Typically Offered: Fall, Spring

Designed for business students with prior knowledge of accounting who intend to use corporate financial statements intensively in valuation, credit or equity analysis, or strategic competitor analysis. Topics include inventory, pensions, business combination, income tax and other current issues for their impacts on financial statement. Emphasis on financial statement analysis and interpretation of financial disclosures for improving risk assessment, forecasting, and decision-making.

FIN 210. Financial Institution Management. 3 Units
Term Typically Offered: Fall, Spring

Develop an understanding of the theory and practice of the management of financial institutions. Emphasis is placed on risk measurement and management. Financial institutions include commercial banks, investment banks, savings banks, credit unions insurance companies and financial companies such as mutual funds.

FIN 220. Corporate Finance. 3 Units
Term Typically Offered: Fall, Spring

Investigate the principles that corporations use in their investing, financing, and day-to-day management decisions. Topics include financial statement analysis, capital investment decision, capital structure, dividend policy, mergers and acquisitions, corporate governance and its impact on valuation.

FIN 230. Equity Analyses. 3 Units
Term Typically Offered: Fall, Spring

Covers advanced concepts and techniques essential to asset valuation. Key topics include, but not limited to, free cash flow, price multiples, asset-based and contingent claim valuations. Applications of various valuation techniques are emphasized. Provides a framework for selecting the most appropriate model for specific circumstances.

FIN 240. Fixed Income. 3 Units
Term Typically Offered: Fall, Spring

Discuss a wide range of fixed income products. Topics include trading concepts and mechanics, pricing, duration, convexity, term structure of interest rates, and options embedded fixed income securities.

FIN 250. Derivatives. 3 Units
Term Typically Offered: Fall, Spring

Discuss major types of financial derivatives and derivative markets. Topics include forward contracts, futures, options, SWAP's and credit derivatives. Emphasis on characteristics, trading process, pricing, parity conditions, risk involved, and investment strategies for different financial derivatives.

FIN 260. Alternative Investments. 3 Units
Term Typically Offered: Fall, Spring

Discuss major types of alternative investments including real estate, hedge funds, commodities, private equity, and venture capital. Emphasis on the technical aspects and the performance analyses of alternative investments, their advantages and disadvantages, role of alternative investments, and strategies of selection.

FIN 270. Portfolio Management. 3 Units
Term Typically Offered: Fall, Spring

Cover topics of asset management utilizing the major aspects of Markowitz portfolio theory, Capital ASSET Pricing Model, and Arbitrage Pricing theory. Discuss the comprehensive approach, starting with portfolio construction and asset selection, following with portfolio performance evaluation, and concluding with rebalancing strategies. Introduce and utilize worksheet modeling techniques which are useful for portfolio management.

FIN 280. Global Financial Markets. 3 Units
Term Typically Offered: Fall, Spring

Cover advanced concepts and applied techniques essential to understand the mechanism of the global financial markets. Key topics include global capital allocation, international tax management, foreign exchange markets, derivatives, parity relationships, and others. Focuses on the core concepts and techniques are applied in the global financial markets using different case studies. Integrate the key principles of finance and extends them to a multinational setting. Topics follow the Chartered Financial Analyst (CFA) Level 1 and 2 Exam on equity valuation.

FIN 299. Special Problems in Finance. 3 Units
Prerequisite(s): Classified graduate status or instructor approval
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Enrollment requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs; 6 units maximum; May be repeated for credit.

FIN 500. Culminating Experience Project in Finance and Ethics. 3 Units
Prerequisite(s): Advancement to candidacy; 12 units of any combination of the following courses: FIN 200, FIN 210, FIN 220, FIN 230, FIN 240, FIN 250, FIN 260, FIN 270 and FIN 280.
Term Typically Offered: Fall, Spring

Each student conducts an individual project to fulfill the culminating experience graduation requirement of the MS in Finance program as required in Title V of the CA Educational Code. The course also covers the ethical conducts and professional standards as outlined in CFA institute standards.
Note: May be repeated for credit

GM 105. Strategic Management. 3 Units
Prerequisite(s): Completion of all other upper-division core courses, except MIS 101.
Term Typically Offered: Fall, Spring, Summer

This capstone course focuses on the integration of functional areas of a business and requires students to determine strategies/policies at the general-management level. Students address problems and issues faced by companies from a general management perspective which integrates accounting, financial, marketing, human resources, and operations in relation to the environment within a framework of balance between profit or cost-effectiveness and social responsibility.

GM 170. Fundamentals of Business Strategy. 3 Units
Prerequisite(s): HROB 101, MKTG 101, FIN 101, and OPM 101.
Term Typically Offered: Fall, Spring

Basics of business-level strategy and how they are applied in modern organizations. Underlying primary principles, theories and practices are examined and discussed. Cases presenting actual, real-world situations will be analyzed to derive solutions to the business-level opportunities and problems facing strategic managers.
Note: General Management students must complete all functional core courses before taking GM 170 .

GM 194. Cooperative Education Experience in Management. 6 - 12 Units
Prerequisite(s): Minimum overall GPA of 2.5.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in management for the purpose of exposing the student to comprehensive management experience in business, governmental, or service agencies.
Note: Open to all upper division students, subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

GM 195. Internship in Strategic Management. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to upper division students, subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Open to declared business administration majors only.

Credit/No Credit

GM 199. Special Problems in Strategic Management. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

HROB 101. The Management of Contemporary Organizations. 3 Units
Term Typically Offered: Fall, Spring

Overview of managerial and organizational theory and practice, including a discussion of the contingencies that influence an organization's effectiveness and efficiency. Focus is on the decision making and problem-solving processes that affect managerial performance in planning, implementing, and controlling the work of contemporary organizations.

HROB 151. Management of Human Resources. 3 Units
Term Typically Offered: Fall, Spring

Seminar covering contemporary processes and practices pertaining to the organization and management of personnel including employee selection, development, motivation, evaluation and remuneration, and union relations. Emphasis on the management of human resources in task oriented organizations. Instructional method provides for case method, laboratory exercises, and small group discussion.

HROB 152. Management Skills Seminar. 3 Units
Prerequisite(s): HROB 101; HROB 151 recommended.
Term Typically Offered: Fall, Spring

Development of management awareness of the dynamics of organizational behavior. Emphasis on case discussions, small group action and role playing for the acquisition of knowledge and skills for effective managing and changing in an organization.

HROB 153. Employment Law. 3 Units
Term Typically Offered: Fall, Spring

Provides students with an overview of the employment laws that impact and influence the workplace including laws regarding employment discrimination, disability discrimination and accommodation, employment leaves of absence, workplace harassment, employment torts and contracts, wage/hour regulations, employee privacy, intellectual property in the employment setting, and other emerging issues in employment law and personnel management. The impact of law on the management of human resources will be the focus of this class.

HROB 154. Strategic Human Resources Management. 3 Units
Prerequisite(s): HROB 151, HROB 152, HROB 153.
Term Typically Offered: Fall, Spring

The objective of this capstone course is to identify contemporary strategies to improve individual and organizational performance. Utilizes a strategic human resource management perspective and incorporate Human Resource Management and Organizational Behavior theories for practical implementation in organizations. Links such concepts as compensation, performance management, law, conflict management, communication, diversity, ethics, and managerial skill building towards preparing for the future of managing individuals in organizations.

HROB 155. Conflict Management and Negotiation. 3 Units
Term Typically Offered: Fall, Spring

Analyzes conflict in organizations, and strategies and processes for effective settlement or resolution of that conflict. Emphasis on the practical aspects of institutional and extra-institutional processes outside the conventional legal system. These dispute resolution methods include negotiation, mediation, arbitration and fair hearing. Students participate in a variety of exercises including simulated negotiations. Through these exercises students explore the basic theoretical models of bargaining and test and improve individual negotiation skills. Class format includes lecture, class discussion, simulation/role-play, expert guests and video demonstrations.

HROB 156. Current Trends and Emerging Issues. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide an in-depth examination of current trends and emerging issues in human resources management and/or organizational behavior. Provides students the opportunity to better understand the latest people-related challenges organizations face. Instructional method provides for case method, group discussion, industry guest speakers, and classroom exercises.

HROB 157. Labor Relations. 3 Units
Term Typically Offered: Fall, Spring

Employer-employee relations in historical and contemporary contexts, with emphasis on the development of labor and management institutions and philosophies, public policies, collective bargaining, and contract administration in the private and public sectors.

HROB 158. Special Topics in Human Resource Management. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide an in-depth examination of a current human resource management topic(s), from both a theoretical and practitioner perspective. Possible topics include, but are not limited to, outsourcing and staffing trends, merit-based performance and compensation plans, technology-based recruiting and selection practices, and innovations in training and career development. Instructional method provides for case method, group discussion, industry guest speakers, and classroom exercises.

HROB 159. Special Topics in Organizational Behavior. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide an in-depth examination of a current organizational behavior topic(s), from both a theoretical and practitioner perspective. Topics include, but are not limited to, family-work relations, stress and burnout, workplace aggression, leadership and motivation, organizational politics and culture, attitudes and change, and organizational learning. Instructional method provides for case method, group discussion, industry guest speakers, and classroom exercises.

HROB 194. Cooperative Education Experiences in Human Resources Management. 6 - 12 Units
Prerequisite(s): HROB 151 and a minimum overall GPA of 2.5.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in human resources management. This supervised work experience allows the student to become familiar with the practice of human resources management in businesses or governmental agencies.
Note: Open to all upper division students subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

HROB 195. Internship in Human Resources Management. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies. Open to upper division students, subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Note: Open to declared business administration majors only.

Credit/No Credit

HROB 199. Special Problems in Human Resources Management. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.
Credit/No Credit

IBUS 180. Sustainability Business in Global Economy. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to the emerging field of sustainability in business and the growing focus on the social, environmental, and economic performance of businesses in global economy. The course presents scientific, moral, and business cases for adopting sustainability.

IBUS 190. International Business. 3 Units
Term Typically Offered: Fall, Spring, Summer

Analyzes international business: foreign markets; export-import trade; licensing agreements; foreign exchange problems; role of the multinational firm; intergovernmental trade agreements; balance of payments; decision making in foreign environments.

IBUS 195. Internship in International Business. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to upper division students, subject to permission of the Management Area. Open to declared business administration majors only. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

IBUS 199. Special Problems in International Business. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Center, Tahoe 1030.

Credit/No Credit

MBA 201. Accounting. 2 Units
Term Typically Offered: Fall, Spring

Concepts and models of financial accounting are introduced. Included are the analysis, interpretation and reporting of financial events.

MBA 202. Business Communication. 2 Units
Term Typically Offered: Fall, Spring

Stresses fundamental communication principles and techniques for effective business writing in diverse managerial situations. Participants complete a variety of writing activities, including responding to management communication cases and evaluating written communications using holistic and analytic tools. Within this context, participants are provided an opportunity to achieve an understanding of syntactical and grammatical patterns while improving analytical and logical business writing skills.
Note: This requirement will be waived for students who achieve a score of 4.5 or higher on the Analytical Writing Assessment (AWA) exam. Graduate Writing Intensive (GWI) course.

MBA 203. Legal Environment of Management. 2 Units
Term Typically Offered: Fall, Spring

Intensive study of important aspects of law for managers, including law as an instrument of social and political control. Analyzes selected problems in areas of private law such as contract, tort, business organizations, and agency. In addition, selected issues of administrative law and government regulation of business will be investigated.

MBA 204. Management and Organization Concepts. 2 Units
Term Typically Offered: Fall, Spring

Evolution of management and organization thought; examination of behavioral science variables influencing working relationships among managers, individuals and groups; the study of political and social behavior in organizations; identification, analysis, and synthesis of contemporary concepts and administrative practices; investigation of organization structure, function, and properties leading to an understanding of administration and organization.

MBA 205. Introduction to Managerial Issues in Information Technology. 2 Units
Term Typically Offered: Fall, Spring

Explores from a management perspective, the impact of IT on individuals, organizations, and society. Focuses on how organizations use information systems to solve strategic and operational problems. Topics may include functional information systems, decision support systems, enterprise systems, interorganizational information systems, e-commerce, and business analytics. The relationship between managers and IT personnel will be defined. May include case studies and appropriate software packages.

MBA 206. Managerial Statistics Analysis. 2 Units
Term Typically Offered: Fall, Spring

Computer-based course in data analysis. Business case studies are used to differentiate between common and specific sources of statistical variation and to construct statistical models such as multiple regression, times series, and statistical quality control. Emphasis is placed on intuitive statistical thinking and communication of results.

MBA 207. Finance. 2 Units
Prerequisite(s): ECON 204, MBA 201, MBA 206.
Term Typically Offered: Fall, Spring

Theory and practice in determining the need for, the acquisition of, and the use of funds by organizations. Topics include time value of money, financial analysis, management of working capital, cost of capital, capital budgeting, long-term financing, dividend policy, and internal financing.

MBA 208. Marketing. 2 Units
Prerequisite(s): ECON 204, MBA 201, MBA 203.
Term Typically Offered: Fall, Spring

Application of decision making in solving marketing problems; such as product, place, promotion and price decisions with reference to consumers and users.

MBA 209. Production and Operations Analysis. 2 Units
Prerequisite(s): ECON 204, MBA 201, MBA 206.
Term Typically Offered: Fall, Spring

Study of operational systems; fundamental concepts, tools, and methodologies required to analyze and solve problems of the operations manager. Topics include: work design, facilities design, scheduling, quality control, and inventory management.

MBA 210. Managerial Accounting. 3 Units
Term Typically Offered: Fall, Spring

Management accounting data characteristics and application to internal decisions made by managers. Topics cover management accounting as a tool of business management. Topics generally include product costing, managers' use of accounting data in specific decision frameworks, performance evaluation, and relevant versus strategic analysis. Class participation is encouraged.

MBA 220. Financial Management. 3 Units
Term Typically Offered: Fall, Spring

Financing of corporations and management of corporate resources, short-term and long-term, stressing maximizing shareholder wealth. The case method is used extensively. Both oral and written communication skills are stressed.

MBA 221. Financial Markets. 3 Units
Prerequisite(s): MBA 220 or instructor permission.
Term Typically Offered: Fall, Spring

Behavior of equity, debt, currency, and derivatives markets and the linkages between these markets. Presents the principles of valuations of instruments traded in these markets and the use of these instruments to investors, speculators, hedgers and arbitrageurs.

MBA 222. Security Analysis and Portfolio Management. 3 Units
Term Typically Offered: Fall, Spring

Evaluation of stocks and bonds from the investor's viewpoint. Interpretation of issuers' financial statements to estimate potential future earnings and dividends; and evaluation of the securities' risks and expected returns through analysis of economic, industry and market environment in order to develop conclusions as to the securities' suitability for inclusion in various types of portfolios. Ethical issues faced by practicing security analysts and portfolio managers.

MBA 223. Asset Valuation. 3 Units
Prerequisite(s): MBA 220 or instructor permission.
Term Typically Offered: Fall, Spring

Advanced concepts and techniques essential to asset valuation. Key topics include, but not limited to, free cash flow, price multiples, asset-based and contingent claim valuations. Applications of various valuation techniques are emphasized.

MBA 224. Advanced Investment Strategies. 3 Units
Prerequisite(s): MBA 222 (may be taken concurrently) or permission of instructor.
Term Typically Offered: Fall, Spring

Theoretical and empirical applications of fund formation models. Emphasis is placed on model development strategies based on analyzing secondary sources of financial data. The quality of models is assessed in terms of their logical consistency, robustness of underlying theoretical assumptions, and predicative power. Development, analysis and predicative assessment are conducted within the Excel environment.

MBA 225. Financial Aspects of Health Care Administration. 3 Units
Term Typically Offered: Fall, Spring

Financing in health care institutions will be studied; including planning and control features involving budgets, funds flow, funding sources, and factors affecting finance in the health care industry. Analyzes will be made of the relationships and effects on health care finance of such factors as labor, business, government, insurance, research, and demography.

MBA 230. Behavior Science Applications in Management. 3 Units
Term Typically Offered: Fall, Spring

Behavioral science theories, concepts, and practices in current use in private and public organizations. Critical evaluation of research supporting those practices.

MBA 231. Managing in High Performance Work Organizations. 3 Units
Term Typically Offered: Fall, Spring

This course focuses on contemporary problems, issues, and objectives relating to the value of collaboration with control in maximizing human capital effectiveness in high performance work organizations. Course work will include research projects, experiential case studies and in-class simulations to help students better understand human capital effectiveness and learn how to serve multiple stakeholders' interests across different sectors such as private, public, healthcare and information technology.

MBA 232. Negotiation and Relationship Management. 3 Units
Term Typically Offered: Fall, Spring

Investigation of the formal and informal methods of dispute resolution including negotiating, litigation, administrative hearings, arbitration, mediation, ombudsperson, summary jury trial, private judging, and fact finding. Emphasizes the application of these methods to organization, business, and public sector disputes.

MBA 233. Seminar in Organization Development. 3 Units
Prerequisite(s): MBA 230 or equivalent.
Term Typically Offered: Fall, Spring

Seminar focusing on individual and organization responses to a changing environment. Includes assumptions and values of organization development; action research; personal, team and intergroup interventions; consultant-client relationships and instrumentation. Cases, laboratory experience, workshop and field analysis techniques are utilized.

MBA 234. Industrial Relations. 3 Units
Term Typically Offered: Fall, Spring

Dual approach emphasizing in-depth analysis of both the philosophical and the practical aspects of industrial relations. The impact of social, economic, and political forces, and their interaction with union and management institutions and public policies. Analyzes relationships between organized employees and employers, the bargaining process, strategies and issues, contract administration, and impasse resolution processes.

MBA 235. Management Of Innovation. 3 Units
Term Typically Offered: Fall, Spring

Synthesis of specialized problems relating to the acquisition, introduction, and utilization of innovations and technological advances by managers in business, industry, government, profit or nonprofit organizations. Current research, thinking methodology dealing with the economics and social impact, sources, barriers, and transfer mechanisms of innovations and technological advances will be investigated.

MBA 236. Current Topics and Processes in Organizational Development. 3 Units
Term Typically Offered: Fall, Spring

Explores contemporary frameworks for dealing with change in today's organizations. Contemporary processes and topics are presented in the context of these frameworks. Lectures and readings may be supplemented by experiential work and firsthand observations of local organizations.

MBA 240. Marketing Management. 3 Units
Term Typically Offered: Fall, Spring

Marketing policy for channels of distribution, pricing brands, advertising, and sales as interrelated at the executive level. Designed to develop capacity for sound decision making by marketing managers.

MBA 241. Marketing and Its Environments. 3 Units
Term Typically Offered: Fall, Spring

Analyzes the firm's or public agency's external environments, forces of change within them, and their influence on the organization's strategies and actions.

MBA 242. Marketing Problems. 3 Units
Term Typically Offered: Fall, Spring

Consideration of current problems and issues in marketing from the perspective of the individual firm or public agency.

MBA 243. Global Marketing Environment. 3 Units
Term Typically Offered: Fall, Spring

An in-depth coverage of a marketing functions in global environment. Explores traditional and contemporary theories, strategies, practices, and issues of international marketing, develops skills required for entry and maintaining presence on the foreign markets.

MBA 244. Research Methodology. 3 Units
Term Typically Offered: Fall, Spring

Problem-solving approach will emphasize the need to impart tools and skills to formulate and design projects which satisfy action or policy needs. Search for relevant information. Methodologies and research strategies. Data collection and analysis. Measurement and statistical inference. Experimentation and simulation. Instrument survey design. Ethical implications. Report preparation and presentation of results for effective communication.

MBA 251. Real Estate Finance and Investment. 3 Units
Term Typically Offered: Fall, Spring

Concept and methods used to analyze equity investment in income-producing properties such as apartments, office buildings, and retail. Topics include market analysis, leasing and property income streams, financial structuring, taxation of real estate operations and transactions, the theory and methods used to assess the performance of individual real estate projects, alternative ownership structures, recent innovations in real estate capital markets, material on regulatory restrictions, taxation, and mixed assets portfolio analysis. Use of computer models for investment decision-making.

MBA 252. Mortgage Markets: Institutions, Securities, and Strategies. 3 Units
Term Typically Offered: Fall, Spring

Provides an understanding of mortgage markets and the knowledge required to make financing and lending decisions. Topics include sources of funds, mortgage design and analysis of financing alternatives; mortgage origination, risks in real estate loans, forecasting loan performance, loan modifications and workout strategies, foreclosure, bankruptcy and REOs; secondary mortgage markets and mortgage-backed securities; development and construction financing, risks in construction performance and project management; and management of interest rate risk. Use of computer models for decision-making.

MBA 253. Seminar in Real Estate Development. 3 Units
Prerequisite(s): MBA 251, PPA 250, advanced to candidacy, and instructor permission.
Term Typically Offered: Fall, Spring

Capstone course in urban land development. Case problems and theoretical issues in such areas as debt and equity financing, feasibility analysis, land use regulation, market analysis, risk management, site selection, and taxation of income-producing properties.

MBA 260. Management of Technology Intensive Enterprises. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Use of information technology (IT) as management resource. Focus is on management decision-making related to telecommunications, data-bases, system development, and decision support systems. Use of technology to reengineer the business organization.

MBA 261. Integrated Business Process Management. 3 Units
Term Typically Offered: Fall, Spring

Study the concept of integrated business process management using ERP tools and software to enhance growth and productivity as the diverse functions of an organization are combined into one comprehensive, interrelated, and optimized system. Demonstrate how enterprise level information systems can achieve organizational goals by providing decision makers with accurate, consistent, current, timely, and relevant information and knowledge. Understand the techniques and skills for successful implementation of ERP systems. Explore the latest trends and development in ERP technologies.

MBA 262. Integrated IT in Healthcare. 3 Units
Term Typically Offered: Fall, Spring

This course examines methodologies, tools and applications used for developing and managing information to improve service and make decisions in healthcare. Topics include design, implementation and management of enterprise information systems, health information systems, and electronic medical records, along with other managerial issues such as information privacy and security.

MBA 263. Project and Outsourcing Management. 3 Units
Term Typically Offered: Fall, Spring

Cover the knowledge, skills, and principles required to organize, plan, and control projects and outsourcing activities. Topics include a review of project characteristics and risks, development executive objectives, organization structure and interfaces, information management, and control techniques.

MBA 264. Business Intelligence. 3 Units
Term Typically Offered: Fall, Spring

Cover the processes, methodologies, infrastructure, framework, and current practices used to transform business data into useful information and knowledge for IT-enabled managerial decision support and performance improvement. Data-orientated techniques for corporate performance management and decision making, as well as methodologies for business process improvement, are emphasized. Foundation knowledge in data storage and retrieval, logical data models for database management systems and data warehouses, and security-related issues are discussed.

MBA 270. Global Business Management. 3 Units
Term Typically Offered: Fall, Spring

Provides graduate students an understanding of the management approaches of multinational corporations in dealing with operational differences in various countries. Topics include such areas as: foreign investment decisions, relations with host governments, and organizational planning.

MBA 271. Integrated Entrepreneurship Management. 3 Units
Term Typically Offered: Fall, Spring

Explore multi-dimensions of entrepreneurship including the entrepreneurial initiatives in a corporate context. As a nascent entrepreneur, students are to evaluate new venture opportunities and to understand the entire process of a new venture creation. In corporate settings, students are to understand the innovation and change management of established firms to accomplish their sustainable competitive advantages.

MBA 272. Entrepreneurial Resources Management. 3 Units
Term Typically Offered: Fall, Spring

Study the concepts of identifying and managing talent in entrepreneurial ventures. Demonstrate through theories, empirical evidence, case studies and simulations, the value of sustainable human resource management in new and established enterprises.

MBA 280. Value Chain Integration. 3 Units
Prerequisite(s): classified or conditionally classified graduate student in the College of Bus Admin
Term Typically Offered: Fall, Spring

Study the current state of enterprise value chains from an operation management perspective. Discuss contemporary issues regarding supply and operations management of organizations including profit and nonprofit, service and manufacturing organizations. Integrative topics will be selected among issues affecting an organization's value chain at operational, strategic, and economic levels.

MBA 281. Quality and Process Improvement in Healthcare. 3 Units
Prerequisite(s): classified or conditionally classified graduate student in the College of Bus Admin
Term Typically Offered: Fall, Spring

Discuss contemporary developments and methods in managing quality and process improvement in the healthcare industry. Topics include: Healthcare quality, leadership, teambuilding and project management; quality management processes and tools; quality measurement and management; human participation and organizational design in healthcare quality management; quality and process improvement initiatives; Lean and Six Sigma methodologies for continuous process improvement; process and systems integration; and emerging trends in healthcare quality management.

MBA 282. Global Supply Chain Management. 3 Units
Prerequisite(s): classified or conditionally classified graduate student in the College of Bus Admin
Term Typically Offered: Fall, Spring

A comprehensive study of the basic concepts, methods, processes, and strategies used in the design, development and management of global of supply chains. Topics include: defining the supply chain on a global scale, designing global supply chain networks, global procurement, strategic alliances, global logistics, supply chain-orientated product design, quantitative and qualitative tools for supply chain management and current industry initiatives.

MBA 294. Cooperative Education Experience in Management. 6 - 12 Units
Prerequisite(s): Minimum overall GPA of 3.0.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in management for the purpose of exposing the students to comprehensive management experience in business, government, or service agencies.
Note: Open to all classified graduate students, subject to permission of the Associate Dean for Graduate and External Programs. Units do not apply toward degree.

Credit/No Credit

MBA 295A. Internship In Finance. 3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.

Credit/No Credit

MBA 295B. Internship In Marketing. 3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.

Credit/No Credit

MBA 295C. Internship in Operations Management. 3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.

Credit/No Credit

MBA 295D. Internship in Organizational Behavior and Management. 3 Units
Prerequisite(s): Classified graduate status; completion of graduate foundation courses plus 6 units of the second year requirement, minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.

Credit/No Credit

MBA 295E. Internship in Urban Land Development. 3 Units
Prerequisite(s): Classified graduate status; completion of graduate foundation courses plus 6 units of the second year requirement, minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.

Credit/No Credit

MBA 296. Experimental Offerings in MBA. 3 Units
Term Typically Offered: Fall, Spring

When a sufficient number of qualified students apply, a faculty member may conduct a seminar on a designated advanced topic in the MBA program.
Note: May be repeated for credit

MBA 299A. Special Problems in Finance. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions are obtained from Tahoe Hall 1035.

Credit/No Credit

MBA 299B. Special Problems in Marketing. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions are obtained from Tahoe Hall 1035.

Credit/No Credit

MBA 299C. Special Problems in Operations Management. 1 - 3 Units
Prerequisite(s): Classified graduate status
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions are obtained from Tahoe Hall 1035.

Credit/No Credit

MBA 299D. Special Problems in Organizational Behavior and Management. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member under whom the individual work is to be conducted in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions to be obtained from the CBA Graduate Programs Office, Tahoe Hall 1035.

Credit/No Credit

MBA 299E. Special Problems in Urban Land Development. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member under whom the individual work is to be conducted in addition to the approval of the Graduate Program Office. Petitions to be obtained from the CBA Graduate Programs Office, Tahoe Hall 1035.

Credit/No Credit

MBA 500A. Thesis. 3 Units
Prerequisite(s): Advanced to candidacy; completion of MBA 244.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree.

MBA 500B. Project. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; completion of MBA 244.
Term Typically Offered: Fall, Spring

Completion of a project approved for the Master's degree.

MBA 500C. Comprehensive Examination. 1 Unit
Prerequisite(s): Advanced to candidacy. For comprehensive examination for MBA only, completion of Program Requirements (MBA 210, MBA 220, MBA 230, MBA 420, MBA 270, MBA 280).
Term Typically Offered: Fall, Spring

MBA 501. Culminating Experience Project in Business and Strategy. 3 Units
Prerequisite(s): Advanced to candidacy
Term Typically Offered: Fall, Spring

Each student conducts an individual project to fulfill the culminating experience graduation requirement of the MBA program as required in Title V of the CA educational Code. The course also covers the competitive strategy of a firm, investigates competitive position, strategic capabilities, inter-firm dynamics, and strategic levers of firms. It integrates the accumulative knowledge, skills and techniques delivered in the program to review the strategy process executives employ for effective decision making.
Note: May be repeated for credit.

MGMT 10. Introduction to Business Law. 3 Units
Term Typically Offered: Fall, Spring

Study of business law for the future business professional. Introduces students to basic business problems that have legal consequences. Encourages the identification of ethical concerns along with the ability to anticipate potential legal problems with the goal of preventing them. Covers introduction to the legal system; court procedures; contracts and sales; business organizations; real and personal property; labor and employment law; product liability, and the government regulation of business.

MGMT 20. Introduction To Business. 3 Units
Term Typically Offered: Fall, Spring

Provides an overview of the various basic functions of business and how they interface. Topics will include accounting, finance, marketing, human resources management, management information systems, operations management, real estate, and international business.

MGMT 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

MGMT 101. Legal Environment of Business. 3 Units
Prerequisite(s): Must be a Business pre-major, Business major (any concentration), a business minor, a Construction Mgmt major, a Mech Engr Tech major, or a Music (Music Mgmt) major to enroll in this course.
Term Typically Offered: Fall, Spring

Study of business law for the business professional. Aside from investigating substantive law, the course stresses critical thinking and analytical evaluation of contemporary business problems. Encourages the identification of ethical concerns along with the ability to anticipate potential legal problems with the goal of preventing them. Covers introduction to the legal system; court procedures; contracts and sales; business organizations; real and personal property; labor and employment law; product liability, and the government regulation of business. OBE 16 or the equivalent is recommended.

MGMT 102. Business Communications. 3 Units
Prerequisite(s): Completion of Area A in General Education and ENGL 20. Recommend COMS 2 and COMS 4.
Term Typically Offered: Fall, Spring

Provides basic concepts for understanding and practice of communication in the changing world of business for managers and professionals. It examines the use of language and conversations in business settings and their role in coordinating actions, resolving breakdowns in work performance, and providing customer satisfaction. Topics include: Practice in professional styles of business writing and formats, preparation of a formal report, development of competence in business conversation skills (written, electronic, and oral), and other selected topics. International, technical, and linguistic developments are integrated into the various applications of business communication.

MGMT 117. Business, Ethics and Society. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Investigation of contemporary business issues and management dilemmas in relation to broad social concerns. Focus is upon public and private decision making in the business environment and how business practices, ethics, and social concerns interrelate. Topics such as the nature of property and profits, efficiency and human values, the balancing of claims of owners, employees, customers, and others in community, corporate responsibility, corporate governance, government regulation and international dimensions of public policy will be covered.

MIS 1. Word Processing. 1 Unit
Term Typically Offered: Fall, Spring

The course teaches Microsoft Office Word that establishes a student's fundamental computer skills required to perform business related tasks. Topics include developing and refining a document; identifying and correcting errors; formatting, modifying and printing documents; working with pictures, graphics, tables and charts; creating reports, forms, references and mailings; securing content and sharing documents, exploring advanced document features and macros, etc.
Credit/No Credit

MIS 2. Spreadsheets. 1 Unit
Term Typically Offered: Fall, Spring

The course teaches Microsoft Office Excel that establishes a student's fundamental computer skills required to perform business related tasks. Topics include creating and formatting a worksheet; summarizing and analyzing data; using decision making tools; working with logical, statistical, database and financial functions, sharing data with other applications, etc.
Note: Not open to students receiving credit for CSC 6B.

Credit/No Credit

MIS 3. Presentation Graphics. 1 Unit
Term Typically Offered: Fall, Spring

The course teaches Microsoft Power Point that establishes a student's fundamental computer skills required to perform business related tasks. Topics include creating, refining and delivering presentations; working with graphics, tables and charts; inserting and enhancing pictures, shapes, sound and video; using templates, slide masters and text boxes, printing, securing and sharing presentations, etc.
Credit/No Credit

MIS 4. Database Applications. 3 Units
Term Typically Offered: Fall, Spring

Use of database management systems (DBMS) to provide students with fundamental information retrieval skills required to perform business related tasks. Topics include basic DBMS operations, working with tables, queries, forms, reports and data analysis.
Note: Students will be required to purchase an online learning application to facilitate skill development.

Credit/No Credit

MIS 10. Business Applications. 2 Units
Term Typically Offered: Fall, Spring

The course teaches the use of spreadsheets to establish a students' fundamental computer skills required to perform business related tasks. Topics include basic spreadsheet operations, working with charts and graphics, application of formulas and spreadsheet presentation formatting.
Note: Students will be required to purchase an online learning application to facilitate skill development.

MIS 15. Introduction to Business Programming. 3 Units
Term Typically Offered: Fall, Spring

Introduction to object oriented programming language. Topics include use of simple data structures and data types, arrays, strings, input-output functions, file processing, and flow control.

MIS 101. Computer Information Systems for Management. 3 Units
Term Typically Offered: Fall, Spring

Explores the application of computers to the organizational environment with a management perspective. Topics may include transaction processing systems, management reporting, decision support systems, strategic planning, security, controls and acquisition of hardware, software and services. The interface between the information systems professional and the manager will be defined. Case studies and use of appropriate software packages may be included.

MIS 120. Advanced Object-Oriented Business Programming. 3 Units
Prerequisite(s): MIS 15.
Term Typically Offered: Fall, Spring

Advanced course in programming principles using an Object Oriented (OO) programming language. Topics will focus on object-oriented (OO) programming including the design and development of OO applications, object classes, inheritance, polymorphism and encapsulation, and graphical user interface (GUI) application development including contrasting event-driven and procedural programming. Assignments will focus on problem-solving in a business context.

MIS 122. Object-Oriented Programming for Business in Java. 3 Units
Prerequisite(s): MIS 15 or CSC 15.
Term Typically Offered: Fall, Spring

Advanced course in programming principles using an Object Oriented (OO) programming language. Topics will focus on object-oriented (OO) programming including the design and development of OO applications, object classes, inheritance, polymorphism and encapsulation, and graphical user interface (GUI) application development including contrasting event-driven and procedural programming.

MIS 124. Web Development for Business Applications. 3 Units
Prerequisite(s): MIS 120.
Term Typically Offered: Fall, Spring

Examines the technologies and principles of modern Web development in the creation of Web-based business applications. Emphasis will be given to client-side and server-side technologies and include the topics of basic Web technologies, forms, database access, frameworks, and Web services. Topics are accompanied by design principles, tools, and techniques for Web application development.

MIS 140. Business Data Communication. 3 Units
Prerequisite(s): Business majors only
Term Typically Offered: Fall, Spring

Examines the basic terminology, hardware/software components, and issues with the establishment, configuration, and management of data communication networks in and across organizations. Topics include wired and wireless local area networks, wide area networks, the internet, and cloud infrastructure.

MIS 150. Database Systems for Business. 3 Units
Term Typically Offered: Fall, Spring

Involves the study of generalized database management systems. The study will include logical data base models and physical base models based primarily on the relational and object-relational models. The student will create and manipulate a database utilizing an established database management system. The importance of data administration and other database related topics such as independence, integrity, privacy, query, backup, and recovery will be covered.

MIS 151. End-User Database Application Development for Business. 3 Units
Prerequisite(s): MIS 1, MIS 2, MIS 3 or approved equivalent.
Term Typically Offered: Fall, Spring

Introduction to end-user database application development in the business environment. Topics will focus on issues in the development of business database applications and include database concepts, organization, storage and retrieval of data, query and analysis with interactive software tools, informative and performance management reporting.
Note: Not open to MIS students.

MIS 160. Systems Development Life Cycle. 3 Units
Prerequisite(s): MIS 101 and MGMT 102
Term Typically Offered: Fall, Spring

Analyze, design, and develop business information systems to solve information needs of businesses and organizations. Topics include various systems analysis and design techniques, tools and methods for building new and/or integrated information systems.

MIS 161. Information Systems Practicum. 3 Units
Prerequisite(s): MIS 15, MIS 150, MIS 160, and Business major or minor.
Term Typically Offered: Fall, Spring

This course provides a comprehensive integration of MIS coursework through the completion of an information systems project. Topics include information systems development life cycle, project management, application development, database management, and security.

MIS 163. Business Process Engineering and ERP Configuration. 3 Units
Term Typically Offered: Fall, Spring

This course focuses on identifying and understanding business requirements, modeling business processes that incorporate the business requirements, and configuring the processes for their implementation in an enterprise resource planning (ERP) system. Students will gain insights to implementation issues and propose alternative solutions to overcome them. A project team environment further develops individual student's communication and team skills.

MIS 170. Information Systems Security. 3 Units
Prerequisite(s): MIS 140
Term Typically Offered: Fall, Spring

This course provides a comprehensive study of IT security principles and of information systems. Emphasis will be placed on understanding the framework of IT security in enterprise IT infrastructure. Topics include information security concepts, security risks and vulnerabilities, common attacking techniques, technical and administrative countermeasures for modern enterprise IT infrastructure, such as encryption, authentication, access control, security policies and standards, and IT risk management and audit.

MIS 171. Enterprise Resource Planning Systems. 3 Units
Prerequisite(s): MIS 101
Term Typically Offered: Fall, Spring

Foundation, business functions, processes, data requirements, development, and management of ERP systems for sales, marketing, accounting, finance, production, supply chain and customer relationship management. Emphasis on re-engineering, integration, standardization, and methodologies of ERP systems.

MIS 173. Microcomputers for Managers. 3 Units
Term Typically Offered: Fall, Spring

For students who want to have more than the minimum required personal computer literacy knowledge. The topics covered are: hardware, system software, utility software, spreadsheet modeling, the Internet, and presentation graphics.
Note: Not open to MIS students.

MIS 181. Machine Learning Applications in Business. 3 Units
Prerequisite(s): DS 101 and MIS 150
Term Typically Offered: Fall, Spring

Applies modern machine learning applications in business to data analysis and problem solving. Topics are presented in the context of decision support and may include knowledge representation, neural networks, genetic algorithms, rule induction, fuzzy logic, case-based reasoning and intelligent agents.

MIS 182. Topics In MIS. 3 Units
Prerequisite(s): MIS 150, MIS 160.
Term Typically Offered: Fall, Spring

Current topics will be presented regarding the technical, managerial, and organization considerations affecting computer-based information systems. Topics may include programming languages and techniques, emerging technologies, and MIS development and implementation issues. Readings, topical research, case presentations, and/or projects will be required.

MIS 183. Business Intelligence Applications. 3 Units
Prerequisite(s): Business major and minor
Term Typically Offered: Fall, Spring

Advanced information technologies that extract non-trivial, actionable, and novel knowledge from data to achieve strategic goals of organizations. Emphasis on multidimensional data modeling, online analytic processing, data warehouse, and data mining.

MIS 191. Culminating Experience. 1 Unit
Prerequisite(s): Completion of all coursework in minor.
Term Typically Offered: Fall, Spring

Students demonstrate their knowledge and apply their skill sets from the minor to a working project, and conduct an executive-level, management-oriented presentation.
Note: Students must be in their final semester of the minor's program.

Credit/No Credit

MIS 194. Cooperative Education Experience in Management Information Systems. 6 - 12 Units
Prerequisite(s): MIS 160, minimum Sacramento State overall GPA of 2.75.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in management information systems for the purpose of exposing the student to comprehensive MIS experience in business, governmental, or service agencies. Open to all upper division students, subject to permission of the MIS Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit

MIS 195. Internship in Management Information Systems. 3 - 6 Units
Prerequisite(s): MIS 160, minimum Sacramento State overall GPA of 2.75.
Term Typically Offered: Fall, Spring

Supervised work experience in management information systems for the purpose of increasing student understanding of the nature and scope of the operations of business, governmental, or service agencies. Supervision is provided by the faculty and the cooperating agencies. Open to upper division students, subject to permission of the MIS Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Note: Open to declared business administration majors only.

Credit/No Credit

MIS 199. Special Problems in Management Information Systems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions may be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

MIS 210. Information Systems I. 3 Units
Term Typically Offered: Fall, Spring

Introduction to business information systems planning and systems development methodologies. Various methodologies are explored and information systems development project planning is emphasized.

MIS 211. Information Systems II. 3 Units
Term Typically Offered: Fall, Spring

Introduction to basic and object-oriented programming concepts, data structures for information representation, and database management systems.

MIS 232. Management Science. 3 Units
Term Typically Offered: Fall, Spring

Introduction to deterministic and stochastic models in operations research. Topics that may be included are: mathematical programming, inventory theory, analysis of waiting lines, Markov processes, game theory, decision theory and simulation. Various computer programs such as LINDO are used to assist in solution and analysis of management problems.
Note: Not open to students with credit for MIS 132.

MIS 240. Communications Technologies for Business. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission.
Term Typically Offered: Fall, Spring

Focuses on the concepts, technology, applications, and management of data and voice communication with an emphasis on building, supporting, securing, and administering the requirements of network infrastructure and architecture to support businesses.
Note: May be taken twice for credit.

MIS 250. Data Management. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission, and MIS 15 or equivalent.
Term Typically Offered: Fall, Spring

Focuses on database concepts, design and implementation in business. Topics include database design techniques, such as extended entity-relationship and unified modeling language, logical and physical data models for objection-relational database, object oriented database and relational databases, database implementation and administration issues, and the discussion of distributed database, web database, and database security .
Note: May be taken twice for credit.

MIS 251. Strategic Applications of Information Resources. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 210 and 211, or their equivalents. MBA students: MBA 260 and instructor permission.
Term Typically Offered: Fall, Spring

Discussion of the techniques and methodologies to utilize information resource to improve an organization's strategic performance measures. Topics include data warehouse, data mining, online analytical transaction processing, and multidimensional database.

MIS 260. Systems Design. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission.
Term Typically Offered: Fall, Spring

Involves the study of various methods used to analyze and design a computer-based information systems and emphasizes object-oriented systems development (OOSD) techniques.
Note: May be taken twice for credit.

MIS 261. Information Technology Integration for the Enterprise. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 260 or MIS 270; MBA students: MBA 260 or permission of instructor.
Term Typically Offered: Fall, Spring

IT presents many new opportunities at the enterprise level for the design and implementation of integrated organizational structures and business processes that better align the business to meeting its market demands and allow it to pursue new strategic relationships with other organizations. Enterprise IT primarily involves enterprise resource planning (ERP), supply chain management (SCM), knowledge management (KM), and customer relationship management (CRM) to support and coordinate business activities.
Note: May be taken twice for credit.

MIS 262. Business Project Management. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 260; MBA students: MBA 260 or instructor permission.
Term Typically Offered: Fall, Spring

Examines various aspects of IT project management, including project selection involving feasibility, complexity, scalability and impact comparisons, project portfolio to direct the right resources to the right projects to sure their timely completion, risk assessment, key performance measures, and others.
Note: May be taken twice for credit.

MIS 270. Information Technology Operations. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission.
Term Typically Offered: Fall, Spring

Examines the management of information technology as a vital resource to an organization. IT can enable businesses to seize opportunities, gain competitive advantages and establish close relationships with other businesses and their customers. Thus, the business must effectively and efficiently manage and secure its IT resources.
Note: May be taken twice for credit.

MIS 272. Strategic Information Technology Planning. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 270; MBA students: MBA 260 or instructor permission.
Term Typically Offered: Fall, Spring

Strategic IT planning defines the direction a business chooses for its IT resources. It encompasses a vision, mission, strategy, and objectives that closely align to the business' vision, mission, strategy, and objectives. Planning involves examining how IT will support the achievement of the business' goals and objectives, and how IT can open new opportunities to create new business goals.
Note: May be taken twice for credit.

MIS 279. Information Technology Leadership. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 261 or MIS 262, MIS 272; MBA students: MBA 260 and instructor permission.
Term Typically Offered: Fall, Spring

Leadership plays an important role in determining a business' success with IT. It requires recognizing and leveraging the business' competencies and core values, and championing initiatives and projects that work in the best interest of the business and create value. Because IT opens opportunities and enables the organization, IT leadership extends to both market (external) and organizational (internal) environments.
Note: May be taken twice for credit.

MIS 280. Decision and Knowledge-Based Systems. 3 Units
Prerequisite(s): MIS 211 or equivalent.
Term Typically Offered: Fall, Spring

Organizational use of information generated from transaction processing systems, management information systems, and decision support systems. The uses of information by managers for planning, control, and decision-making purposes will be discussed. The types of information systems implemented in various kinds of organizations will be covered.

MIS 281. Topics in the Management of Information Systems. 3 Units
Prerequisite(s): Open to non-MSBA/MIS majors with credit in MBA 260 or equivalent; and to those who have completed MSBA/MIS Program Prerequisites.
Term Typically Offered: Fall, Spring

Current topics will be presented regarding the managerial, behavioral, and organizational considerations affecting computer-based information systems. Includes topics such as project selection and justification techniques, system controls, security and privacy issues, strategic planning, and use/data processing department relations. Readings, topical research, and case presentations will be required.

MIS 295. Internship in Management Information Systems. 3 Units
Prerequisite(s): Completion of two of the following: MIS 240, MIS 250, MIS 260, or MIS 270; minimum Sacramento State GPA of 3.0.
Term Typically Offered: Fall, Spring

Supervised work experience in management information systems for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations of business, governmental, or service agencies. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions to be obtained from Tahoe Hall 1037.

Credit/No Credit

MIS 299. Special Problems in Management Information Systems. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member under whom the individual work is to be conducted in addition to the approval of the Graduate Programs Office. Petitions to be obtained from Tahoe Hall 1035.

Credit/No Credit

MIS 500A. Thesis. 1 - 3 Units
Prerequisite(s): Advanced to candidacy. Completion of MBA 244.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree.

MIS 500B. Project. 1 - 3 Units
Prerequisite(s): Advanced to candidacy. Completion of MBA 244.
Term Typically Offered: Fall, Spring

Completion of a project approved for the Master's degree.

MIS 500C. Comprehensive Examination. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; for comprehensive examination for MBA only (MGMT 500C, 1 unit), completion of program requirements (ACCY 240, MBA 230, MBA 240, MBA 241, MBA 270, MBA 280; for comprehensive examination for MSBA/MIS Degree, student must be in final semester of program.
Term Typically Offered: Fall, Spring

For MSBA/MIS.

MKTG 101. Principles Of Marketing. 3 Units
Prerequisite(s): You must be a Business major (any concentration), a business minor or in one of the following majors: Coms/Pub Relations, CM, MET, FACS (Apparel Mktg/Design), FACS (Cons Sci), FASH, GPHD, INTD (Mktg), Rec & Park Mgmt, Photography to enroll in this course.
Term Typically Offered: Fall, Spring

The purpose of this course is to help students develop a working knowledge of marketing. Students will learn about the role marketing plays in an organization, as well as how to plan, implement and evaluate marketing activities. This course builds a foundation for further study in marketing and related fields.

MKTG 115. Marketing Analytics. 3 Units
Prerequisite(s): MKTG 101; and either DS 101 or MKTG 121; or instructor permission
Term Typically Offered: Fall, Spring

The course covers current developments in marketing analytics. Topics include methodologies for market forecasting, estimating market size, and demand; evaluating marketing ROI and customer life time value; modeling of segmentation, positioning, competitive analysis, conjoint analysis, distribution channel analytics, and sales analytics. Students will also learn the latest datamining tools to collect, analyze, and visualize data for decision making and communicating to senior executives.

MKTG 121. Marketing Research and Information. 3 Units
Prerequisite(s): MKTG 101.
Corequisite(s): DS 101
Term Typically Offered: Fall, Spring

Examines the acquisition of information for marketing management decision making, including methods of collection and analysis applicable to secondary and primary data, as this process relates to the management information system. Seminar.

MKTG 122. Buyer Behavior. 3 Units
Prerequisite(s): MKTG 101.
Term Typically Offered: Fall, Spring

Understanding buying as a process in order to develop more effective solutions to marketing problems; an interdisciplinary approach drawing on insights from the behavioral sciences; applications to practical marketing situations. Seminar.

MKTG 123. Public Relations and Ethics in Business. 3 Units
Term Typically Offered: Fall, Spring

Managerial function of evaluating public attitudes toward business firms and other organizations and institutions, and of adjusting policies and executing programs to earn public acceptance and support. Media and method of communicating with the various publics, and problems in responsible leadership.

MKTG 124. Retail Management. 3 Units
Prerequisite(s): MKTG 101.
Term Typically Offered: Fall, Spring

Development, trends, and institutions of retailing; organization and management of retail establishments; principles and policies of retail store operations including location and layout, planning and control of budgets, personnel, pricing and customer services.

MKTG 125. Advertising. 3 Units
Prerequisite(s): MKTG 101.
Term Typically Offered: Fall, Spring

Examination of advertising as a marketing communications tool in profit and nonprofit organizations. Emphasis will be placed on creative methods, alternative media, measurements of effectiveness, and coordination with other aspects of the marketing program through class discussion and written projects. Seminar.

MKTG 126. Salesmanship. 3 Units
Term Typically Offered: Fall, Spring

Principles of the sales process including prospecting, structuring a sales presentation, handling objections, closing and customer relationship management. Application of sales techniques in product and service situations, integration of technology as a sales tool. Includes lectures, role playing, and practice in sales presentations.

MKTG 127. Sales Management. 3 Units
Prerequisite(s): MKTG 101.
Term Typically Offered: Fall, Spring

Individual problems of manufacturer or wholesaler in merchandising; intensive development of the 'selling' function of marketing; duties of the sales manager.

MKTG 129. Marketing Management. 3 Units
Prerequisite(s): MKTG 101 and senior status.
Term Typically Offered: Fall, Spring

Application of marketing principles to the solution of a wide variety of problems and cases including target markets, product selection, channels of distribution, promotion and pricing.
Note: It is a capstone course. It is recommended that students take MKTG 121 and MKTG 122 prior to taking MKTG 129. Seminar.

MKTG 130. Digital Marketing. 3 Units
Prerequisite(s): MKTG 101 and Business majors or Marketing minors only.
Term Typically Offered: Fall, Spring

The purpose of this course is to help students learn and apply emerging marketing techniques to become efficient and effective marketers in the 21st century. Topics covered center on effective marketing in an online environment to help students refine their strategic marketing skills, ability to work effectively in diverse teams, and understanding of the local marketing environment.

MKTG 140. Sports Marketing. 3 Units
Prerequisite(s): MKTG 101
Term Typically Offered: Fall, Spring

The purpose of this course is to help students to integrate principles of marketing and sports industry management. It examines the marketing of sports, teams, athletes, sport arenas, as well as the use of sports related marketing tools (such as sponsorships, celebrity athlete endorsements, promotional licensing) for promoting non-sport consumer and industrial products.

MKTG 160. Principles of Quality Management. 3 Units
Term Typically Offered: Fall, Spring

Study of the major principles of quality management: customer focus, continuous improvement, employee involvement, and process improvement. Use of case studies and a project to gain knowledge in implementing quality management principles. Seminar.

MKTG 181. Supply Chain Logistics Management. 3 Units
Prerequisite(s): OPM 101.
Term Typically Offered: Fall, Spring

Delivery of enhanced customer and economic value through synchronized management of the flow of physical goods and associated information from sourcing through consumption. Examines the management of those activities that facilitate the movement, control and direction of goods and services to create time, place, form and ownership utilities in the global market. Topics include transportation, warehousing, information systems, sourcing, strategic alliances, modeling, purchasing and international operations.

MKTG 186. Advanced Operations Planning and Control. 3 Units
Prerequisite(s): OPM 101.
Term Typically Offered: Fall, Spring

Focuses on effective operations strategies for companies that operate in a dynamic business environment, with an emphasis on in-depth treatments of the decision situations facing managers in charge of related to the planning and control of the flow of goods and services in supply chain systems.

MKTG 188. Supply Chain Modeling and Analysis. 3 Units
Prerequisite(s): OPM 101.
Term Typically Offered: Fall, Spring

Covers modeling and analytics for designing, managing and improving supply chain systems in order to achieve competitive advantages: cost, quality, service, flexibility, adaptability, and sustainability which support business level strategies of cost leadership and differentiation.

MKTG 190. Multinational Marketing. 3 Units
Prerequisite(s): MKTG 101 or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Environmental factors affecting international trade, such as culture and business customs, political factors and constraints, economic development and legal differences, are integrated with the marketing management functions of market potential, analysis marketing research, international organization, channels and distribution, sales promotion, prices, credit, and financing.

MKTG 195. Internship in Marketing. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to upper division students, subject to permission of the Marketing Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Open to declared business administration majors only.

Credit/No Credit

MKTG 199. Special Problems in Marketing. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

MKTG 199A. Special Problems in Supply Chain Management. 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

OPM 101. Operations Management. 3 Units
Prerequisite(s): Student must be a Business Major or Business Administration minor to enroll in this course
Corequisite(s): DS 101
Term Typically Offered: Fall, Spring

Introduction to the basic concepts and methods used to analyze and improve performance of operations in manufacturing and service organizations.

RELU 199. Special Problems in Real Estate and Land Use Affairs. 1 - 3 Units

Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.
Credit/No Credit

Business Honors Program

Units required for the Major: 54 units
Minimum total units required for the BS: 120

Program Description

The Business Honors program:

- Presents a holistic and integrated view of business that reflects not only current business practice but also the best of practice.
- Challenges students in critical thinking while building their decision making and problem solving skills.
- Immerses students in a learning experience in which they learn not only from their professors, but also from their peers.
- Develops students as future business leaders and pioneers.
- Provides students with many opportunities to meet and interact with professionals to learn real-life lessons.
- Provides an exceptional value to their business education through advanced knowledge and skill sets.

The Business Honors program is a full-time program. Business Honors students will be immersed in a cohort-based learning experience where they will work with and learn from others in their cohort group as well as high-qualified faculty.

For more information, please contact the Office of the Associate Dean for Academic Programs at (916) 278-6463.

Program Requirements

Code	Title	Units
Business Honors Core (33 Units)		
Foundation Courses		
BHON 102	Business Communication	2
BHON 104	Fundamentals of Organizational Behavior	2
BHON 105	Introduction to Management Information Systems	2
BHON 106	Business Data Analysis	2
BHON 107	Business Finance	2
BHON 108	Fundamentals in Marketing	2
BHON 109	Operations Management	2
Integration Courses		
BHON 120	Business Intelligence	3
BHON 130	Value Chain and Supply Chain Management	3
BHON 140	Enterprise Resource Planning and Infrastructure	3
BHON 150	Entrepreneurship and Innovation	3
BHON 160	Project Management	3
BHON 170	Strategy and Leadership	3
Practicum		
BHON 190	Practicum in Business	1
Total Units		33

Certificate in Advanced Business Studies (CABS)

Program Description

The Certificate of Advanced Business Studies program is designed to give students a solid foundation in business that will provide them with the skills and competencies necessary to be successful administrators and managers. The program is intended for post-baccalaureate students whose degrees are in non-business fields. The courses of the certificate program will also satisfy the Foundation Requirements of the graduate degree programs in the College of Business Administration. The Certificate is offered by the College of Business Administration and is administered by the Sacramento State College of Continuing Education.

Certificate in International Accounting Information Analyst (IAIA)

Program Description

The International Accounting Information Certificate Program is carefully crafted to make the accounting professional more relevant in today's global environment. The curriculum is designed to equip the accounting professional with an essential foundation upon which he or she can build a new and expanded paradigm of his or her new role in a rapidly changing and ever more complex world. The IAIA Certificate Program is available only to students who are enrolled in the Master of Science in Accountancy program or in the Master of Science in Business Administration Taxation program. The Certificate is offered by the College of Business Administration and is administered by the Sacramento State College of Continuing Education.

Concurrent Master's and Juris Doctoral Programs

Program Description

An arrangement between the College of Business Administration (CBA) and the University of the Pacific McGeorge School of Law allows a student to earn credits toward an MBA degree and a juris doctor (JD) degree concurrently.

Applicants who are interested in both MBA and JD programs should consult this catalog for the requirements for admission to the MBA degree program and contact the Graduate Business Advising Center (GBAC), Tahoe Hall 1037 of the College of Business Administration for information on the current program.

Concurrent Master's Program

Program Description

A student may concurrently earn the MS/ACCY from Sacramento State and the MBA from Sacramento State. To earn the MS degree, the catalog requirements for that degree must be met, i.e., Foundation Courses, Program Requirements, Electives, and Culminating Experience (30-49)

units. To concurrently and jointly earn the MBA degree, the student must satisfy the MBA Program Requirements (21 units) and the MBA Culminating Experience (3 units). Coursework from the MS program can be used to satisfy the nine-unit requirement for Elective Courses. For more information, contact the CBA Graduate Business Advising Center (GBAC), Tahoe Hall 1037.

MBA (Business Analytics in Healthcare)

Total units required for MBA: 33

Program Description

The **MBA** program has been developed to provide an education that is extensive and broadening rather than intensive or specialized within a limited functional area. The MBA is intended to improve the participant's capacity for effective decision making, to facilitate his/her professional growth and development for increasing managerial responsibility, and to broaden his/her knowledge and understanding of management in the areas of:

- Accountancy
- Finance
- International Management
- Management Information Systems
- Supply Chain Management

The MBA is also appropriate preparation for teaching business education subjects at the community college level. Students are encouraged to obtain further guidance from the school districts in which they will teach.

Admission Requirements

All applicants for post-baccalaureate degree programs in Business must have earned a baccalaureate degree from a regionally accredited four-year institution of higher learning or the equivalent from a foreign institution. Admission requirements are different for each of the CBA Graduate Programs. The specific admission requirements for each degree program are listed within the program descriptions under "Admission Information" on the following pages. The College of Business Administration reserves the rights to revise its admissions standards and to limit enrollment in its graduate degree programs.

Applicants who are approved for admission will receive a letter from the Office of Graduate Studies informing them that they have been admitted as a Pre-Master or classified graduate student. Included with that correspondence will be an Acceptance Form which the new graduate student must then return to the CBA Graduate Business Advising Center (GBAC), Tahoe Hall 1037.

Admission Criteria for the MBA Program:

1. Index 1 of 1050 or Index 2 of 1100 (see description below);
2. GMAT Total score of 500;
3. GMAT Quantitative percentile of 30;
4. GMAT Verbal percentile of 30; and
5. 2.50 Overall Undergraduate GPA.

Index #1 - (GPA x 200) + GMAT total score. An index of 1050 is required using the overall undergraduate GPA.

Index #2 - (GPA x 200) + GMAT total score. An index of 1100 is required using the last 60 semester units (last 90 quarter units) undergraduate GPA.

Example: [3.0 GPA x 200] + 500 GMAT total score = 1100

Note: We reserve the right to admit fewer applicants that those meeting the minimum criteria.

Deadlines

See the CBA Web site for current admission deadlines: www.cba.csus.edu/graduate/MBA (http://www.cba.csus.edu/graduate/MBA/)

Special Admission Process

Applicants not meeting all the admission criteria may be admitted to the program based on evidence of potential success in the program provided by the applicant. Such evidence may include, but is not limited to: the applicant's maturity, motivation, employment history, managerial potential, letters of recommendation, personal statement, community activities, and other accomplishments that support the applicant's potential to successfully complete the program. An applicant so considered and recommended for admission may be approved by the Dean or Dean's designee.

Application Procedures

All prospective graduate students must file all of the following documents by the application deadline with both the CBA Graduate Business Advising Center (Tahoe Hall 1037) and the Sacramento State Office of Graduate Studies (River Front Center 206) as noted below:

1. To the College of Business Administration, Graduate Business Advising Center:
   - 1 Set of Official Transcripts;
   - GMAT Scores;
   - Recommendation Letters (two letters are strongly preferred); and
   - Resume.
2. To Sacramento State Office of Graduate Studies:
   - Online CSU Graduate Application (www.csus.edu/gradstudies (http://www.csus.edu/gradstudies/));
   - 1 Set of Official Transcripts; and
   - Application Fee as required by the CSU system (You can pay this when you are filling out your online application).

Note: Applications are not considered complete and will not be reviewed unless GMAT scores and transcripts are included. To facilitate processing your application so that you receive an admission decision more quickly, you must submit official transcripts from ALL colleges and universities previously attended (other than courses taken at Sacramento State) even if you attended Sacramento State as an undergraduate. You should arrange to have those official transcripts sent at the same time you submit your application.

International Students

All materials, inclusive of TOEFL scores, must be turned in to the International Admissions Office (Lassen Hall 2304). To ensure consideration, international students should submit their material, including GMAT and TOEFL test scores, to the International Admissions Office one month prior to the CBA Graduate Business Advising Center's (GBAC) application filing deadline. For an application and details international students should visit The International Admissions Office Web site at http://www.csus.edu/oge/international-admissions/.

Application Submission

For Graduate Programs: MBA, MS/ACCY, and CABS:

College of Business Administration
Graduate Business Advising Center (GBAC)
Tahoe Hall, Room 1037
Sacramento State
6000 J Street
Sacramento, CA 95819-6088
Web site: csus.edu/cba/graduate/index (http://www.csus.edu/cba/graduate/)
Phone: (916) 278-6772
Fax: (916) 278-4943
Email: cba-gbac@saclink.csus.edu

And to:

Office of Graduate Studies
Sacramento State
River Front Center, Room 215
6000 J Street
Sacramento, CA 95819-6112
Web site: csus.edu/cba/graduate/index (http://www.csus.edu/cba/graduate/)
Phone: (916) 278-6470
Email: gradctr@csus. (gradctr@csus.edu)edu (gradctr@csus.edu)

Prerequisites

Prior to enrolling in the Foundation courses, students must be proficient in mathematics, statistics, and computer usage:

- Mathematics: at least one semester of calculus is strongly preferred;
- Statistics: an introductory course in probability and statistics; and
- Computer usage: ability to use common personal computer hardware and software, particularly word processing programs, spreadsheet programs, and internet browsers.

The faculty will assume that all MBA students have these proficiencies. A student may gain the necessary proficiencies in many ways: through coursework, review classes, self-study; or experience. No proficiency courses can count as credit towards program requirements.

Writing Placement for Graduate Students Exam

All graduate students are expected to have demonstrated writing proficiency at the undergraduate level as prescribed by the California State University System. Applicants for admission to graduate programs who have not fulfilled this requirement will be required to take the Writing Placement for Graduate Students (WPG) or take a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver. A student may be eligible for a WPG Waiver based on selected criteria (obtain a list of criteria and a WPG waiver from the Graduate Business Advising Center). Graduate students are required to meet this requirement **before** advancing to candidacy. No exceptions will be made to this policy.

Foundation Courses

The Foundation courses provide an academic background in the various disciplines of business. The MBA degree program is built upon this common background. Foundation courses should be taken after the student has attained the required entry proficiencies (prerequisites) and should be completed prior to taking program requirement courses. The Foundation courses are available through the Sacramento State College of Continuing Education.

A student who has a baccalaureate degree or a minor in Business Administration from an **AACSB-INTERNATIONAL** accredited university may have completed all or most of the Foundation requirements. However, the student will be required to take certain Foundation courses if she/he:

1. has not previously completed the comparable undergraduate course(s) for academic credit from an AACSB-INTERNATIONAL accredited institution or from a high quality program that has a 'national or international reputation';
2. has earned less than an overall 3.0 ('B') grade point average (GPA) in the comparable undergraduate courses presented for waiver of required courses;
3. has received a 'C' or lower grade in the comparable undergraduate course;
4. cannot demonstrate currency in these courses (7 year limit); or
5. has completed the bachelor's degree at a foreign institution.

Courses taken at **AACSB-INTERNATIONAL** accredited colleges of business will be accepted for transfer credit if the course is regarded as equivalent to the course for which credit is requested. Business Foundation courses and Core courses will not be accepted for transfer credit from programs that are not **AACSB-INTERNATIONAL** accredited unless taken at institutions that have national or international reputations of high quality programs.

Please contact the Graduate Business Advising Center (GBAC) Tahoe Hall 1037 to request petitions for equivalency for graduate, non-articulated courses. The CBA Academic Standards Committee will evaluate whether the institutions satisfy the requirement of 'national or international reputations of high quality programs.' Subsequently, faculty in the appropriate department will make the final determination for course equivalency, e.g., content, method of instruction, method of evaluating students, and/or course duration. To find out if your university is AACSB accredited go to www.AACSB.edu (http://www.aacsb.edu/).

Pre-Master students who are registered in the last two Foundation courses must file an Application for Classification with the Graduate Business Advising Center (GBAC) Tahoe Hall 1037, to be able to enroll in the courses designated as Program Requirements. The student's academic status will be reviewed to assure that he/she meets the necessary criteria to be accepted as a classified graduate student.

A GPA of at least 3.0 ('B') is required in all Foundation courses taken at Sacramento State, and program requirement courses presented for the degree.

Foundation Courses (0-11 units)

The foundation courses are available through the College of Continuing Education after acceptance into one of the CBA Graduate Programs.

Note: To be completed after the student has demonstrated the required entry proficiencies and must be completed prior to taking Program Requirements in any of the Master's programs.

All of the Foundation Courses below are required for the MBA and the MSBA/MIS programs. MSBA/Taxation and MS/Accountancy programs only require the following:

Code	Title	Units
ECON 204	Business Economics	3
MBA 201	Accounting	2
MBA 203	Legal Environment of Management	2

Note: The EMBA program does not require Foundation coursework.

A graduate student may request a challenge for waiver of a College of Business Administration foundation or core course if it at least one of the following conditions is met:

- The student has taken an equivalent class elsewhere, subject to the GPA requirement in CBA academic policy. For core classes, the equivalent class must be at the graduate level; for the foundation classes, the equivalent class can be taken at the undergraduate level.
- The student has achieved appropriate professional or academic qualification.
- The student has appropriate professional work experience.

It is the responsibility of a student to provide sufficient documentation to support a waiver challenge application.

Code	Title	Units
ECON 204	Business Economics	3
MBA 201	Accounting	2
MBA 202	Business Communication [1]	2
MBA 203	Legal Environment of Management	2
MBA 206	Managerial Statistics Analysis	2

[1] This requirement will be waived for students who achieve a score of 4.5 or higher on the Analytical Writing Assessment (AWA) section of the GMAT exam.

Minimum Units and Grade Requirement for the Degree

Units required for MBA: 33 (excluding foundation courses)
Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course is "C." No more than two (2) courses with a grade of "C" will be counted for satisfaction of graduate program requirements.

Advancement to Candidacy

A student's program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business Administration may apply to the Graduate Business Advising Center (GBAC) for advancement to candidacy for the Master's degree after s/he has completed at least 12 units of the program requirements beyond the Foundation requirements. Students with a GPA deficiency or who have not fulfilled the Writing Placement for Graduate Students Requirement (WPG) cannot advance to candidacy.

Program Requirements

Code	Title	Units
Required Core Courses (15 Units)		
MBA 210	Managerial Accounting	3
MBA 220	Financial Management	3
MBA 230	Behavior Science Applications in Management	3
MBA 240	Marketing Management	3
MBA 280	Value Chain Integration	3
Required Courses (9 Units)		
MBA 262	Integrated IT in Healthcare	3
MBA 225	Financial Aspects of Health Care Administration	3
MBA 281	Quality and Process Improvement in Healthcare	3
Elective Group (6 Units)		
Select at least two of the following or any MBA 200-level courses:		6
MBA 235	Management Of Innovation	
MBA 260	Management of Technology Intensive Enterprises	
MBA 261	Integrated Business Process Management	
MBA 263	Project and Outsourcing Management	
MBA 264	Business Intelligence	
Culminating Experience (3 Units)		
Select one of the following:		3
MBA 501	Culminating Experience Project in Business and Strategy	
MBA 500A	Thesis	
MBA 500B	Project	
Total Units		33

MBA (General)

Total units required for MBA: 33

Program Description

The **MBA** program has been developed to provide an education that is extensive and broadening rather than intensive or specialized within a limited functional area. The MBA is intended to improve the participant's capacity for effective decision making, to facilitate his/her professional growth and development for increasing managerial responsibility, and to broaden his/her knowledge and understanding of management in the areas of:

- Accountancy
- Finance
- International Management
- Management Information Systems
- Supply Chain Management

The MBA is also appropriate preparation for teaching business education subjects at the community college level. Students are encouraged to obtain further guidance from the school districts in which they will teach.

Admission Requirements

All applicants for post-baccalaureate degree programs in Business must have earned a baccalaureate degree from a regionally accredited four-year institution of higher learning or the equivalent from a foreign institution. Admission requirements are different for each of the CBA

Graduate Programs. The specific admission requirements for each degree program are listed within the program descriptions under "Admission Information" on the following pages. The College of Business Administration reserves the rights to revise its admissions standards and to limit enrollment in its graduate degree programs.

Applicants who are approved for admission will receive a letter from the Office of Graduate Studies informing them that they have been admitted as a Pre-Master or classified graduate student. Included with that correspondence will be an Acceptance Form which the new graduate student must then return to the CBA Graduate Business Advising Center (GBAC), Tahoe Hall 1037.

Admission Criteria for the MBA Program:

1. Index 1 of 1050 or Index 2 of 1100 (see description below);
2. GMAT Total score of 500;
3. GMAT Quantitative percentile of 30;
4. GMAT Verbal percentile of 30; and
5. 2.50 Overall Undergraduate GPA.

Index #1 - (GPA x 200) + GMAT total score. An index of 1050 is required using the overall undergraduate GPA.

Index #2 - (GPA x 200) + GMAT total score. An index of 1100 is required using the last 60 semester units (last 90 quarter units) undergraduate GPA.

Example: [3.0 GPA x 200] + 500 GMAT total score = 1100

Note: We reserve the right to admit fewer applicants that those meeting the minimum criteria.

Deadlines

See the CBA Web site for current admission deadlines: www.cba.csus.edu/graduate/MBA (http://www.cba.csus.edu/graduate/MBA/)

Special Admission Process

Applicants not meeting all the admission criteria may be admitted to the program based on evidence of potential success in the program provided by the applicant. Such evidence may include, but is not limited to: the applicant's maturity, motivation, employment history, managerial potential, letters of recommendation, personal statement, community activities, and other accomplishments that support the applicant's potential to successfully complete the program. An applicant so considered and recommended for admission may be approved by the Dean or Dean's designee.

Application Procedures

All prospective graduate students must file all of the following documents by the application deadline with both the CBA Graduate Business Advising Center (Tahoe Hall 1037) and the Sacramento State Office of Graduate Studies (River Front Center 206) as noted below:

1. To the College of Business Administration, Graduate Business Advising Center:
   - 1 Set of Official Transcripts;
   - GMAT Scores;
   - Recommendation Letters (two letters are strongly preferred); and
   - Resume.
2. To Sacramento State Office of Graduate Studies:
   - Online CSU Graduate Application (www.csus.edu/gradstudies (http://www.csus.edu/gradstudies/));
   - 1 Set of Official Transcripts; and
   - Application Fee as required by the CSU system (You can pay this when you are filling out your online application).

Note: Applications are not considered complete and will not be reviewed unless GMAT scores and transcripts are included. To facilitate processing your application so that you receive an admission decision more quickly, you must submit official transcripts from ALL colleges and universities previously attended (other than courses taken at Sacramento State) even if you attended Sacramento State as an undergraduate. You should arrange to have those official transcripts sent at the same time you submit your application.

International Students

All materials, inclusive of TOEFL scores, must be turned in to the International Admissions Office (Lassen Hall 2304). To ensure consideration, international students should submit their material, including GMAT and TOEFL test scores, to the International Admissions Office one month prior to the CBA Graduate Business Advising Center's (GBAC) application filing deadline. For an application and details international students should visit The International Admissions Office Web site at http://www.csus.edu/oge/international-admissions/.

Application Submission

For Graduate Programs: MBA, MS/ACCY, and CABS:

College of Business Administration
Graduate Business Advising Center (GBAC)
Tahoe Hall, Room 1037
Sacramento State
6000 J Street
Sacramento, CA 95819-6088
Web site: csus.edu/cba/graduate/index (http://www.csus.edu/cba/graduate/)
Phone: (916) 278-6772
Fax: (916) 278-4943
Email: cba-gbac@saclink.csus.edu

And to:

Office of Graduate Studies
Sacramento State
River Front Center, Room 215
6000 J Street
Sacramento, CA 95819-6112
Web site: csus.edu/cba/graduate/index (http://www.csus.edu/cba/graduate/)
Phone: (916) 278-6470
Email: gradctr@csus. (gradctr@csus.edu)edu (gradctr@csus.edu)

Prerequisites

Prior to enrolling in the Foundation courses, students must be proficient in mathematics, statistics, and computer usage:

- Mathematics: at least one semester of calculus is strongly preferred;
- Statistics: an introductory course in probability and statistics; and
- Computer usage: ability to use common personal computer hardware and software, particularly word processing programs, spreadsheet programs, and internet browsers.

The faculty will assume that all MBA students have these proficiencies. A student may gain the necessary proficiencies in many ways: through coursework, review classes, self-study; or experience. No proficiency courses can count as credit towards program requirements.

Writing Placement for Graduate Students Exam

All graduate students are expected to have demonstrated writing proficiency at the undergraduate level as prescribed by the California State University System. Applicants for admission to graduate programs who have not fulfilled this requirement will be required to take the Writing Placement for Graduate Students (WPG) or take a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver. A student may be eligible for a WPG Waiver based on selected criteria (obtain a list of criteria and a WPG waiver from the Graduate Business Advising Center). Graduate students are required to meet this requirement **before** advancing to candidacy. No exceptions will be made to this policy.

Foundation Courses

The Foundation courses provide an academic background in the various disciplines of business. The MBA degree program is built upon this common background. Foundation courses should be taken after the student has attained the required entry proficiencies (prerequisites) and should be completed prior to taking program requirement courses. The Foundation courses are available through the Sacramento State College of Continuing Education.

A student who has a baccalaureate degree or a minor in Business Administration from an **AACSB-INTERNATIONAL** accredited university may have completed all or most of the Foundation requirements. However, the student will be required to take certain Foundation courses if she/he:

1. has not previously completed the comparable undergraduate course(s) for academic credit from an AACSB-INTERNATIONAL accredited institution or from a high quality program that has a 'national or international reputation';
2. has earned less than an overall 3.0 ('B') grade point average (GPA) in the comparable undergraduate courses presented for waiver of required courses;
3. has received a 'C' or lower grade in the comparable undergraduate course;
4. cannot demonstrate currency in these courses (7 year limit); or
5. has completed the bachelor's degree at a foreign institution.

Courses taken at **AACSB-INTERNATIONAL** accredited colleges of business will be accepted for transfer credit if the course is regarded as equivalent to the course for which credit is requested. Business Foundation courses and Core courses will not be accepted for transfer credit from programs that are not **AACSB-INTERNATIONAL** accredited unless taken at institutions that have national or international reputations of high quality programs.

Please contact the Graduate Business Advising Center (GBAC) Tahoe Hall 1037 to request petitions for equivalency for graduate, non-articulated courses. The CBA Academic Standards Committee will evaluate whether the institutions satisfy the requirement of 'national or international reputations of high quality programs.' Subsequently, faculty in the appropriate department will make the final determination for course equivalency, e.g., content, method of instruction, method of evaluating students, and/or course duration. To find out if your university is AACSB accredited go to www.AACSB.edu (http://www.aacsb.edu/).

Pre-Master students who are registered in the last two Foundation courses must file an Application for Classification with the Graduate Business Advising Center (GBAC) Tahoe Hall 1037, to be able to enroll in the courses designated as Program Requirements. The student's academic status will be reviewed to assure that he/she meets the necessary criteria to be accepted as a classified graduate student.

A GPA of at least 3.0 ('B') is required in all Foundation courses taken at Sacramento State, and program requirement courses presented for the degree.

Foundation Courses (0-11 units)

The foundation courses are available through the College of Continuing Education after acceptance into one of the CBA Graduate Programs.

Note: To be completed after the student has demonstrated the required entry proficiencies and must be completed prior to taking Program Requirements in any of the Master's programs.

All of the Foundation Courses below are required for the MBA and the MSBA/MIS programs. MSBA/Taxation and MS/Accountancy programs only require the following:

Code	Title	Units
ECON 204	Business Economics	3
MBA 201	Accounting	2
MBA 203	Legal Environment of Management	2

Note: The EMBA program does not require Foundation coursework.

A graduate student may request a challenge for waiver of a College of Business Administration foundation or core course if it at least one of the following conditions is met:

- The student has taken an equivalent class elsewhere, subject to the GPA requirement in CBA academic policy. For core classes, the equivalent class must be at the graduate level; for the foundation classes, the equivalent class can be taken at the undergraduate level.
- The student has achieved appropriate professional or academic qualification.
- The student has appropriate professional work experience.

It is the responsibility of a student to provide sufficient documentation to support a waiver challenge application.

Code	Title	Units
ECON 204	Business Economics	3
MBA 201	Accounting	2
MBA 202	Business Communication [1]	2
MBA 203	Legal Environment of Management	2
MBA 206	Managerial Statistics Analysis	2

[1] This requirement will be waived for students who achieve a score of 4.5 or higher on the Analytical Writing Assessment (AWA) section of the GMAT exam.

Minimum Units and Grade Requirement for the Degree

Units required for MBA: 33 (excluding the foundation courses)

Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course is "C." No more than two (2) courses with a grade of "C" will be counted for satisfaction of graduate program requirements.

Advancement to Candidacy

A student's program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business Administration may apply to the Graduate Business Advising Center (GBAC) for advancement to candidacy for the Master's degree after s/he has completed at least 12 units of the program requirements beyond the Foundation requirements. Students with a GPA deficiency or who have not fulfilled the Writing Placement for Graduate Students Requirement (WPG) cannot advance to candidacy.

Program Requirements

Code	Title	Units
Required Courses (21 Units) [1]		
MBA 210	Managerial Accounting	3
MBA 220	Financial Management	3
MBA 230	Behavior Science Applications in Management	3
MBA 240	Marketing Management	3
MBA 260	Management of Technology Intensive Enterprises	3
MBA 270	Global Business Management	3
MBA 280	Value Chain Integration	3
Elective Courses (9 Units)		
Select three electives [2]		9
Culminating Experience (Advancement to candidacy) (3 Units)		
Select one of the following:		3
MBA 501	Culminating Experience Project in Business and Strategy	
MBA 500A	Thesis	
MBA 500B	Project	
Total Units		33

[1] A graduate student may request a challenge for waiver of a College of Business Administration foundation or core course if at least one of the following conditions is met:

- The student has taken an equivalent class elsewhere, subject to the GPA requirement in CBA academic policy. For core classes, the equivalent class must be at the graduate level; for foundation classes, the equivalent class can be at the undergraduate level.
- The student has achieved appropriate professional or academic qualification.
- The student has appropriate professional work experience.

It is the responsibility of a student to provide sufficient documentation to support waiver challenge application. Academic credit for core courses is not earned by waiver. The requirement for completing a core course is waived, providing the student enrolls in and satisfactorily, completes an elective course in that discipline or an elective approved to the appropriate faculty advisor who grants the waiver.

[2] For a general MBA, elective courses may be chosen from a broad array of graduate Business Administration courses, nonbusiness graduate classes (6 units maximum), or supervisory coursework (6 units maximum: 3 units of Internship [a 295 series course], 3 units of Special Problems [a 299 series course]. Elective courses may also be selected to satisfy one or more of the concentration options shown below. For help with choosing electives, students should consult with the CBA Graduate Business Advising Center (Tahoe Hall 1037) and the concentration advisor(s).

MBA for Executives (EMBA)

Total units for EMBA: 41

Program Description

The EMBA program is offered through collaboration between the College of Business Administration and the College of Continuing Education. The degree is offered by the College of Business Administration and administered through the College of Continuing Education and the External Graduate Programs Office (EGP) in the College of Business Administration.

Our EMBA program is designed to help just that as well as help the region redefine the business community. The new millennium is about making choices to make our lives easier and more enriched. New technological advances are happening every day that provide us with a better quality of life and the opportunity to have more flexibility than ever before. That is where the Master of Business Administration for Executives (EBMA) Program at Sacramento State comes in. The College of Business Administration recognizes the need among working professionals to advance their careers in a flexible and supportive environment that has not been met in the Sacramento region ever before. We believe that business executives deserve to have an EMBA program tailored to their unique needs.

A key consideration for the EMBA Program is that it is tailored to the needs of full-time working professionals. The program is designed to meet the needs of highly engaged working executives and managers. The entire program can be completed within 15 months. The EMBA courses are only available through the College of Continuing Education.

The EMBA program consists of 41 academic units broken down by the following components: orientation, eight required courses, four

elective courses selected for each cohort, and an individual project for culminating experience. A listing of the courses is given below.

Admission Requirements

Selecting candidates for admissions is a very critical decision for the EMBA program. That is why we have adopted a system that takes into account three primary areas of evaluation when making admission decisions:

1. Professional Experience (length, breadth, and depth of professional and managerial experience, and potential for career development);
2. Academic Qualifications (a baccalaureate degree from an institution accredited by a regional accrediting association, previous graduate level coursework if available, and performance on the Graduate Management Admission Test (GMAT); and
3. Additional Relevant Criteria (Potential contribution to learning experience of the program, maturity and motivation, ability and willingness to commit the required time and energy to the program, community service and professional activities, and support of an applicant's employing organization).

A candidate with good academic qualifications and a solid, but short, work record will have the same opportunity as someone with a strong, long, work record, but who has been out of school for a while. We believe candidates who have successful professional careers, solid education, and additional relevant qualifications will excel in our EMBA Program.

We do require that our candidates have a baccalaureate degree from a regionally accredited institution. We also recommend applicants have at least 3 to 5 years of professional work experience. Professional work experience will provide the applicants and their peers with a more stimulating learning environment.

Deadlines

Since class size is limited, early applications are highly encouraged.

Please contact the EMBA Admission Help Desk (916-278-2895) or visit the EMBA Web site (csus.edu/cba/emba/admissions (http://www.csus.edu/cba/emba/admissions.html)) for application deadlines.

Application Procedures

(All forms can be downloaded from our Web site csus.edu/cba/emba/howtoapply (http://www.csus.edu/cba/emba/howtoapply.html).)

1. To Sacramento State, Office of Graduate Studies:
   - Online Sacramento State Graduate Application (csus.edu/cba/graduate/mba) (http://www.csus.edu/cba/graduate/mba.html) and
   - $55 Application Fee (you can pay this when you are filling out your online application).
2. To the College of Business Administration, External Graduate Programs Office (EGP). The following are required for a complete application:

The following are required for a complete application:

1. The Supplementary Application Form (http://www.emba.csus.edu/emba/documents/CBAApplication-Spring2010.pdf). You may print out a copy and manually fill out the form or fill out the form electronically by downloading the application form from www.emba.csus.edu (http://www.emba.csus.edu/) and save a copy on your computer. Please type or print clearly on the application. Give your full legal name and avoid abbreviations. You may use additional paper if you need more space to respond, but please put your name on each page, and attach the pages to your application.
2. Two copies of official transcripts. Please request 2 copies of official transcripts from all colleges and universities you have attended. A Transcript Request form (http://www.csus.edu/cba/emba/howtoapply.html) is included for your convenience. It is recommended that you have the transcripts directly sent to you in sealed envelopes.
3. Two letters of recommendation. At least one of these letters should come from supervisors and business associates who can discuss knowledgeably your managerial and academic abilities, accomplishments, and potential. Please use the Recommendation Letter Form (http://www.csus.edu/cba/emba/howtoapply.html) for the application.
4. Results on the Graduate Management Admission Test (GMAT). The Computer Adaptive GMAT is administered at test centers throughout the world. To register, visit their Web site at www.mba.com (http://www.mba.com). Please be sure to use the correct Sacramento State institutional code on your GMAT registration form.
5. Statement of career objectives. This statement should include a description of your long- and short-term career goals, and the ways in which you believe the EMBA degree will help you to achieve them.
6. A reverse chronological resume of your work experience. The resume should include job title, organization (nature of business, gross sales/revenues, number of employees), location, dates of employment, a summary of duties and responsibilities, and a description of your organizational unit (size, scope, budget, personnel, and reporting relationships) for each position held.
7. Corporate/Individual Sponsorship Form (http://www.csus.edu/cba/emba/howtoapply.html). Required to insure that your organizational sponsor will agree to allow you to attend classes on the mandatory Friday afternoons and Saturdays, and to determine if your organization plans to cover all or part of your educational fees. If you will be self-supporting, please ask your employer to confirm their agreement to your attendance and indicate your personal payment option preference on the bottom of the form.
8. Application interview. An application interview may be required, depending on individual circumstances. The Graduate Programs Office will contact you if needed.

Your completed Supplementary Application Form, and all supporting documents should be mailed to the address below, unless otherwise indicated:

College of Business Administration
MBA for Executive Program
Tahoe Hall, Room 1010
Sacramento State
6000 J Street
Sacramento, CA 95819-6088

International Applicants

International applications are not accepted for the program.

Note: Applications are not considered complete and will not be reviewed unless GMAT scores and transcripts are included. To facilitate processing your application so that you receive an admission decision more quickly, you must submit official transcripts from ALL colleges and universities previously attended (other than courses taken at Sacramento State University) even if you attended Sacramento State as

an undergraduate. You should arrange to have all official transcripts sent at the same time you submit your application.

Minimum Units and Grade Requirement for the Degree

Units for EMBA: 41
Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course is "C." No more than two (2) courses with a grade of "C" will be counted for satisfaction of graduate program requirements.

Advancement to Candidacy

A student's program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business Administration may apply to the Graduate Business Advising Center (GBAC) for advancement to candidacy for the Master's degree after s/he has completed at least 12 units of the program requirements beyond the Foundation requirements. Students with a GPA deficiency or who have not fulfilled the Writing Placement for Graduate Students Requirement (WPG) cannot advance to candidacy.

Program Requirements

Code	Title	Units
Orientation (1 Unit)		
EMBA 210	EMBA Orientation	1
Required Courses (24 Units)		
EMBA 222	Managerial Accounting for Executives [1]	3
EMBA 223	Quantitative Methods for Decision Making [1]	3
EMBA 224	Managerial Finance for Executives [1]	3
EMBA 225	Organizational Design and Management [1]	3
EMBA 226	Technology Management for Executives [1]	3
EMBA 227	Strategic Marketing Management [1]	3
EMBA 228	Strategic Analysis for Executives [1]	3
EMBA 229	Leadership and Change Management [1]	3
Elective Courses (12 Units)		
Select four of the following:		12
EMBA 241	Strategic Supply Chain Management [1]	
EMBA 242	Product and Brand Management [1]	
EMBA 243	Legal Issues in Business Environment [1]	
EMBA 244	Corporate Performance Measurements [1]	
EMBA 245	Competing in the Global Marketplace [1]	
EMBA 246	Managing Creativity and Innovation [1]	
EMBA 247	Executive Decision Making [1]	
EMBA 248	Project Management for Executives [1]	
EMBA 249	Management in the Public Sector [1]	
EMBA 296	Experimental Offerings in Executive Management [1]	
EMBA 299	Special Problems in Executive Management [1]	
Culminating Experience (4 Units)		
EMBA 260	EMBA Individual Project	4
Total Units		41

[1] Completion of EMBA 210

Minor in Business Administration

Units required for the Minor: 24, all of which must be taken in Business Administration,* with the exception of the STAT 1 **requirement.**

Program Description

The College offers Minors in Business Administration, Knowledge Management Technology, Management of Human Resources and Organizational Behavior, Marketing, Real Estate and Land Use Affairs, and Risk Management and Insurance. A Minor in Business Administration is valuable to the student majoring in another area who wishes to supplement his/her knowledge with a business background.

Note: The use of the words "business administration" throughout this section refers to courses designated as Accountancy (ACCY), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG).

Note: Minimum required GPA: 2.0 ("C") in Business Administration courses with the minimum acceptable grade for any course being a 'C-.'

Note: At least nine upper division units must be taken in residence. Business Administration[1] 195 and 199 courses may not be applied to the minor.

Note: A student shall demonstrate computer literacy and competency (MIS 1, MIS 2, MIS 3) prior to taking 100-level courses except HROB 101. See csus.edu/cba/ubac/computerliteracychallengeexam (http://www.csus.edu/cba/ubac/computerliteracychallengeexam.html) for information about the Computer Literacy Challenge exams.

Program Requirements

Code	Title	Units
ACCY 1	Accounting Fundamentals	3
ACCY 2	Managerial Accounting	3
HROB 101	The Management of Contemporary Organizations	3
MGMT 10	Introduction to Business Law	3
STAT 1	Introduction to Statistics	3
Select one of the following:		3
FIN 101	Business Finance	
MKTG 101	Principles Of Marketing	
OPM 101	Operations Management	
Select two 100-level Business Administration courses [1]		6
Total Units		24

[1] The use of the words “business administration” throughout this section refers to courses designated as Accountancy (ACCY), Accountancy Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG) and Supply Chain Management (SCM).

The student pursuing a **minor** in business administration is cautioned that other students enrolling in the class, majors in business administration, normally will have satisfactorily completed all prerequisites. ***To insure that no significant handicap is incurred where prerequisites are not met, the student should obtain explicit instructor permission in each course prior to enrolling.*** Currency policies outlined in the Business Major also apply to Business Minors.

Minor in Knowledge Management Technology

Units required for the Minor: 19

Program Description

The minor in Knowledge Management Technology prepares students to become knowledge workers in their chosen concentration areas of study. It places emphases on the discovery of knowledge through traditional and contemporary techniques, and the application of knowledge through analysis and critical thinking using IT as the primary means for these activities.

Program Requirements

Code	Title	Units
Required Courses (16 Units)		
DS 133		3
MIS 132		3
MIS 150	Database Systems for Business	3
or MIS 151	End-User Database Application Development for Business	
MIS 181	Machine Learning Applications in Business	3
MIS 183	Business Intelligence Applications	3
MIS 191	Culminating Experience	1
Elective Courses (3 Units)		
Select one of the following:		3
Applied Business Research Courses		
FIN 138	Principles of Risk Management and Insurance	
MKTG 115	Marketing Analytics	
MKTG 121	Marketing Research and Information	
MKTG 122	Buyer Behavior	
FIN 143	Real Estate Investment	
Applied Non-Business Research Courses		
ECON 180	Urban Economics	
ENVS 120	Quantitative Methods for Environmental Science	
GEOG 109	Geographic Information Systems	
HLSC 147		
SWRK 110	Statistics and Research for Social Workers	
Total Units		19

Finance

BS in Business Administration (Finance)

Units required for Major: 66
Total units required for BS: 120

Program Description

The Finance concentration emphasizes a conceptual and applied approach to the development of professional skills necessary for careers in such fields as banking, investments, corporate financial management, financial planning, insurance, and financial services. Consideration and emphasis is given to the role played by financial markets, financial intermediaries, nonfinancial corporations, governments, and individual investors in the global economy. The curriculum is designed to familiarize students with the financial management of business operations, the operation and management of financial institutions and markets, and the financial aspects of investing, portfolio management, and risk management.

Note: The use of the words “business administration” throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University’s Foreign Language Graduation Requirement. Students who change major may be subject to the University’s Foreign Language Graduation Requirement.

Note: At least 15 units of upper division business administration courses must be taken in residence at (or under the auspices of) California State University, Sacramento. Of these 15 units, a minimum of nine units must be in upper division courses in the concentration.

Pre-Requisite Requirements

A student **may not enroll** in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of ’C-’ or better in each course and an overall GPA of 2.0 (’C’), with the exception of MATH 24 which requires a minimum acceptable grade of ’C’ or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

Code	Title	Units
DS 101	Data Analysis for Managers	3
MGMT 102	Business Communications	3
HROB 101	The Management of Contemporary Organizations	3

Computer Literacy

All business majors must meet spreadsheet competency **prior** to taking 100-level business courses. This requires completing MIS 10, Spreadsheet Skills (or equivalent).

Minimum Grade Requirements

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is "C-" with the exception of MATH 24 which requires a minimum acceptable grade of 'C' or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

Program Requirements

Code	Title	Units
Required Lower Division (Pre-Requisites) Courses (21 Units)		
ACCY 1	Accounting Fundamentals	3
ACCY 2	Managerial Accounting	3
ECON 1A	Introduction to Macroeconomic Analysis [1]	3
ECON 1B	Introduction to Microeconomic Analysis [1]	3
MATH 24	Modern Business Mathematics [1]	3
MGMT 10	Introduction to Business Law	3
STAT 1	Introduction to Statistics [1]	3
Total Units		21

[1] Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file the supplemental business application to officially apply to Business Administration as their major. Visit www.csus.edu/cba/ubac/impaction.html for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

Code	Title	Units
Required Upper Division (Major) Core Courses (24 Units)		
DS 101	Data Analysis for Managers	3
FIN 101	Business Finance	3
GM 105	Strategic Management	3
HROB 101	The Management of Contemporary Organizations	3
MGMT 102	Business Communications	3
MIS 101	Computer Information Systems for Management	3
MKTG 101	Principles Of Marketing	3
OPM 101	Operations Management	3
Total Units		24

Finance (FIN) Concentration (21 units)

General Finance Track

Code	Title	Units
Group A Required Courses (15 Units)		
FIN 134	Financial Management	3
FIN 135	Investments	3
FIN 136	Modern Portfolio Management	3
FIN 137	Financial Institutions and Markets	3
FIN 190	Multinational Business Finance	3
Group B Elective Courses (6 Units)		
Select two of the following:		6
FIN 138	Principles of Risk Management and Insurance	
FIN 139	Business Property and Liability Insurance	
FIN 140	Employee Benefits	
FIN 142	Real Estate Finance	
FIN 143	Real Estate Investment	
FIN 160		
ACCY 171	Federal Tax Procedures I	
ACCY 190	International Accounting	
ECON 100A	Intermediate Macroeconomic Theory	
ECON 100B	Intermediate Microeconomic Theory	
ECON 192	International Finance	
MKTG 115	Marketing Analytics	
MKTG 126	Salesmanship	
Total Units		21

Risk Management Track

Code	Title	Units
Group A Required Courses (15 Units)		
FIN 134	Financial Management	3
FIN 135	Investments	3
FIN 138	Principles of Risk Management and Insurance	3
FIN 139	Business Property and Liability Insurance	3
FIN 140	Employee Benefits	3
Group B Courses (6 Units)		
Select two of the following:		6
ACCY 171	Federal Tax Procedures I	
FIN 136	Modern Portfolio Management	
FIN 137	Financial Institutions and Markets	
FIN 142	Real Estate Finance	
FIN 190	Multinational Business Finance	
HLSC 108		
HLSC 109		
HLSC 110		
HROB 153	Employment Law	
IBUS 190	International Business	
Total Units		21

Real Estate Track

Code	Title	Units
Group A Required Courses (15 Units)		
FIN 134	Financial Management	3
FIN 135	Investments	3

FIN 142	Real Estate Finance	3
FIN 143	Real Estate Investment	3
FIN 149	Current Topics in Real Estate	3
Group B Courses (6 Units)		
Select two of the following:		6
ECON 180	Urban Economics	
FIN 19	Real Estate Principles	
FIN 136	Modern Portfolio Management	
FIN 137	Financial Institutions and Markets	
FIN 139	Business Property and Liability Insurance	
FIN 141	Managerial Real Estate Law	
FIN 144		
FIN 145		
Total Units		21

Financial Planning Track

Code	Title	Units
Group A Required Courses (18 Units)		
ACCY 171	Federal Tax Procedures I	3
FIN 135	Investments	3
FIN 136	Modern Portfolio Management	3
FIN 138	Principles of Risk Management and Insurance	3
FIN 140	Employee Benefits	3
FIN 150	Capstone in Professional Financial Planning	3
Group B Courses (3 Units)		
Select one of the following:		3
FIN 134	Financial Management	
FIN 139	Business Property and Liability Insurance	
FACS 141	Family Finance	
Total Units		21

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (10 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Business Administration (all concentrations) are exempt from the Foreign Language Graduation Requirement.

MBA (Finance)

Total units required for MBA: 33

Program Description

The **MBA** program has been developed to provide an education that is extensive and broadening rather than intensive or specialized within a limited functional area. The MBA is intended to improve the participant's capacity for effective decision making, to facilitate his/her professional growth and development for increasing managerial responsibility, and

to broaden his/her knowledge and understanding of management in the areas of:

- Accountancy
- Finance
- International Management
- Management Information Systems
- Supply Chain Management

The MBA is also appropriate preparation for teaching business education subjects at the community college level. Students are encouraged to obtain further guidance from the school districts in which they will teach.

Admission Requirements

All applicants for post-baccalaureate degree programs in Business must have earned a baccalaureate degree from a regionally accredited four-year institution of higher learning or the equivalent from a foreign institution. Admission requirements are different for each of the CBA Graduate Programs. The specific admission requirements for each degree program are listed within the program descriptions under "Admission Information" on the following pages. The College of Business Administration reserves the rights to revise its admissions standards and to limit enrollment in its graduate degree programs.

Applicants who are approved for admission will receive a letter from the Office of Graduate Studies informing them that they have been admitted as a Pre-Master or classified graduate student. Included with that correspondence will be an Acceptance Form which the new graduate student must then return to the CBA Graduate Business Advising Center (GBAC), Tahoe Hall 1037.

Admission Criteria for the MBA Program:

1. Index 1 of 1050 or Index 2 of 1100 (see description below);
2. GMAT Total score of 500;
3. GMAT Quantitative percentile of 30;
4. GMAT Verbal percentile of 30; and
5. 2.50 Overall Undergraduate GPA.

Index #1 - (GPA x 200) + GMAT total score. An index of 1050 is required using the overall undergraduate GPA.

Index #2 - (GPA x 200) + GMAT total score. An index of 1100 is required using the last 60 semester units (last 90 quarter units) undergraduate GPA.

Example: [3.0 GPA x 200] + 500 GMAT total score = 1100

Note: We reserve the right to admit fewer applicants that those meeting the minimum criteria.

Deadlines

See the CBA Web site for current admission deadlines: www.cba.csus.edu/graduate/MBA (http://www.cba.csus.edu/graduate/MBA/)

Special Admission Process

Applicants not meeting all the admission criteria may be admitted to the program based on evidence of potential success in the program provided by the applicant. Such evidence may include, but is not limited to: the applicant's maturity, motivation, employment history, managerial potential, letters of recommendation, personal statement, community activities, and other accomplishments that support the applicant's potential to successfully complete the program. An applicant so considered and recommended for admission may be approved by the Dean or Dean's designee.

Application Procedures

All prospective graduate students must file all of the following documents by the application deadline with both the CBA Graduate Business Advising Center (Tahoe Hall 1037) and the Sacramento State Office of Graduate Studies (River Front Center 206) as noted below:

1. To the College of Business Administration, Graduate Business Advising Center:
   - 1 Set of Official Transcripts;
   - GMAT Scores;
   - Recommendation Letters (two letters are strongly preferred); and
   - Resume.
2. To Sacramento State Office of Graduate Studies:
   - Online CSU Graduate Application (www.csus.edu/gradstudies (http://www.csus.edu/gradstudies/));
   - 1 Set of Official Transcripts; and
   - Application Fee as required by the CSU system (You can pay this when you are filling out your online application).

Note: Applications are not considered complete and will not be reviewed unless GMAT scores and transcripts are included. To facilitate processing your application so that you receive an admission decision more quickly, you must submit official transcripts from ALL colleges and universities previously attended (other than courses taken at Sacramento State) even if you attended Sacramento State as an undergraduate. You should arrange to have those official transcripts sent at the same time you submit your application.

International Students

All materials, inclusive of TOEFL scores, must be turned in to the International Admissions Office (Lassen Hall 2304). To ensure consideration, international students should submit their material, including GMAT and TOEFL test scores, to the International Admissions Office one month prior to the CBA Graduate Business Advising Center's (GBAC) application filing deadline. For an application and details international students should visit The International Admissions Office Web site at http://www.csus.edu/oge/international-admissions/.

Application Submission

For Graduate Programs: MBA, MS/ACCY, and CABS:

College of Business Administration
Graduate Business Advising Center (GBAC)
Tahoe Hall, Room 1037
Sacramento State
6000 J Street
Sacramento, CA 95819-6088
Web site: csus.edu/cba/graduate/index (http://www.csus.edu/cba/graduate/)
Phone: (916) 278-6772
Fax: (916) 278-4943
Email: cba-gbac@saclink.csus.edu

And to:

Office of Graduate Studies
Sacramento State
River Front Center, Room 215
6000 J Street

Sacramento, CA 95819-6112
Web site: csus.edu/cba/graduate/index (http://www.csus.edu/cba/graduate/)
Phone: (916) 278-6470
Email: gradctr@csus. (gradctr@csus.edu)edu (gradctr@csus.edu)

Prerequisites

Prior to enrolling in the Foundation courses, students must be proficient in mathematics, statistics, and computer usage:

- Mathematics: at least one semester of calculus is strongly preferred;
- Statistics: an introductory course in probability and statistics; and
- Computer usage: ability to use common personal computer hardware and software, particularly word processing programs, spreadsheet programs, and internet browsers.

The faculty will assume that all MBA students have these proficiencies. A student may gain the necessary proficiencies in many ways: through coursework, review classes, self-study; or experience. No proficiency courses can count as credit towards program requirements.

Writing Placement for Graduate Students Exam

All graduate students are expected to have demonstrated writing proficiency at the undergraduate level as prescribed by the California State University System. Applicants for admission to graduate programs who have not fulfilled this requirement will be required to take the Writing Placement for Graduate Students (WPG) or take a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver. A student may be eligible for a WPG Waiver based on selected criteria (obtain a list of criteria and a WPG waiver from the Graduate Business Advising Center). Graduate students are required to meet this requirement **before** advancing to candidacy. No exceptions will be made to this policy.

Foundation Courses

The Foundation courses provide an academic background in the various disciplines of business. The MBA degree program is built upon this common background. Foundation courses should be taken after the student has attained the required entry proficiencies (prerequisites) and should be completed prior to taking program requirement courses. The Foundation courses are available through the Sacramento State College of Continuing Education.

A student who has a baccalaureate degree or a minor in Business Administration from an **AACSB-INTERNATIONAL** accredited university may have completed all or most of the Foundation requirements. However, the student will be required to take certain Foundation courses if she/he:

1. has not previously completed the comparable undergraduate course(s) for academic credit from an AACSB-INTERNATIONAL accredited institution or from a high quality program that has a 'national or international reputation';
2. has earned less than an overall 3.0 ('B') grade point average (GPA) in the comparable undergraduate courses presented for waiver of required courses;
3. has received a 'C' or lower grade in the comparable undergraduate course;
4. cannot demonstrate currency in these courses (7 year limit); or
5. has completed the bachelor's degree at a foreign institution.

Courses taken at **AACSB-INTERNATIONAL** accredited colleges of business will be accepted for transfer credit if the course is regarded as equivalent to the course for which credit is requested. Business Foundation courses and Core courses will not be accepted for transfer credit from programs that are not **AACSB-INTERNATIONAL** accredited unless taken at institutions that have national or international reputations of high quality programs.

Please contact the Graduate Business Advising Center (GBAC) Tahoe Hall 1037 to request petitions for equivalency for graduate, non-articulated courses. The CBA Academic Standards Committee will evaluate whether the institutions satisfy the requirement of 'national or international reputations of high quality programs.' Subsequently, faculty in the appropriate department will make the final determination for course equivalency, e.g., content, method of instruction, method of evaluating students, and/or course duration. To find out if your university is AACSB accredited go to www.AACSB.edu (http://www.aacsb.edu/).

Pre-Master students who are registered in the last two Foundation courses must file an Application for Classification with the Graduate Business Advising Center (GBAC) Tahoe Hall 1037, to be able to enroll in the courses designated as Program Requirements. The student's academic status will be reviewed to assure that he/she meets the necessary criteria to be accepted as a classified graduate student.

A GPA of at least 3.0 ('B') is required in all Foundation courses taken at Sacramento State, and program requirement courses presented for the degree.

Foundation Courses (0-11 units)

The foundation courses are available through the College of Continuing Education after acceptance into one of the CBA Graduate Programs.

Note: To be completed after the student has demonstrated the required entry proficiencies and must be completed prior to taking Program Requirements in any of the Master's programs.

All of the Foundation Courses below are required for the MBA and the MSBA/MIS programs. MSBA/Taxation and MS/Accountancy programs only require the following:

Code	Title	Units
ECON 204	Business Economics	3
MBA 201	Accounting	2
MBA 203	Legal Environment of Management	2

Note: The EMBA program does not require Foundation coursework.

A graduate student may request a challenge for waiver of a College of Business Administration foundation or core course if it at least one of the following conditions is met:

- The student has taken an equivalent class elsewhere, subject to the GPA requirement in CBA academic policy. For core classes, the equivalent class must be at the graduate level; for the foundation classes, the equivalent class can be taken at the undergraduate level.
- The student has achieved appropriate professional or academic qualification.
- The student has appropriate professional work experience.

It is the responsibility of a student to provide sufficient documentation to support a waiver challenge application.

Code	Title	Units
ECON 204	Business Economics	3
MBA 201	Accounting	2
MBA 202	Business Communication [1]	2
MBA 203	Legal Environment of Management	2
MBA 206	Managerial Statistics Analysis	2

[1] This requirement will be waived for students who achieve a score of 4.5 or higher on the Analytical Writing Assessment (AWA) section of the GMAT exam.

Mimimum Units and Grade Requirement for the Degree

Units required for MBA: 33 (excluding foundation courses)
Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course is "C." No more than two (2) courses with a grade of "C" will be counted for satisfaction of graduate program requirements.

Advancement to Candidacy

A student's program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business Administration may apply to the Graduate Business Advising Center (GBAC) for advancement to candidacy for the Master's degree after s/he has completed at least 12 units of the program requirements beyond the Foundation requirements. Students with a GPA deficiency or who have not fulfilled the Writing Placement for Graduate Students Requirement (WPG) cannot advance to candidacy.

Program Requirements

Code	Title	Units
Required Courses (15 Units)		
MBA 210	Managerial Accounting	3
MBA 220	Financial Management	3
MBA 230	Behavior Science Applications in Management	3
MBA 240	Marketing Management	3
MBA 280	Value Chain Integration	3
Elective Group A (9 Units)		
Select at least three of the following:		9
MBA 221	Financial Markets	
MBA 222	Security Analysis and Portfolio Management	
MBA 223	Asset Valuation	
MBA 224	Advanced Investment Strategies	
MBA 251	Real Estate Finance and Investment	
Any 200-level course approved by the MBA Finance advisor		
Elective Group B (6 Units)		
Select at most two MBA 200-level courses which are not in Group A		6
Culminating Experience (Advancement to candidacy) (3 Units)		
Select one of the following:		3
MBA 501	Culminating Experience Project in Business and Strategy	
MBA 500A	Thesis	
MBA 500B	Project	
Total Units		33

Minor in Real Estate and Land Use Affairs

Units required for the Minor: 15, of which at least nine upper division units must be taken in residence.

Program Description

The minor in Real Estate and Land Use Affairs is designed to provide students in other fields with the opportunity to broaden their undergraduate education and to acquire specialized skills useful in a wide range of job opportunities.

Program Requirements

Code	Title	Units
FIN 19	Real Estate Principles	3
Select three of the following:		9
FIN 141	Managerial Real Estate Law	
FIN 142	Real Estate Finance	
FIN 143	Real Estate Investment	
Select one of the following:		3
Legal Aspects of Real Estate (offered at Community College)		
Real Estate Appraisal (offered at Community College)		
Real Estate Economics (offered at Community College)		
Real Property Management (offered at Community College)		
CM 10	The Construction Industry	
ENGR 140	Engineering Economics	
ENTR 187	Entrepreneurship	
FIN 138	Principles of Risk Management and Insurance	
HROB 151	Management of Human Resources	
HROB 155	Conflict Management and Negotiation	
MGMT 117	Business, Ethics and Society	
MIS 173	Microcomputers for Managers	
FIN 141	Managerial Real Estate Law [1]	
FIN 142	Real Estate Finance [1]	
FIN 143	Real Estate Investment [1]	
Total Units		15

[1] If not taken previously can be taken as an elective.

Minor in Risk Management and Insurance

Units required for the Minor: 12, of which at least nine upper division units must be taken in residence.

Program Description

The minor in Risk Management and Insurance is designed for students interested in supplementing their non-business majors with a broad overview of business concepts and specifically with risk management principles and concepts as applied in their various disciplines. Majors in Communication Studies, Recreation and Leisure Studies, Nursing, Criminal Justice, and Engineering may find the minor especially beneficial.

Note: Must demonstrate computer literacy and competency (MIS 1, MIS 2, MIS 3) prior to taking 100-level business courses. See csus.edu/cba/ubac/computerliteracychallengeexam (http://www.csus.edu/cba/ubac/computerliteracychallengeexam.html) for information about the Computer Literacy Challenge Exam.

Program Requirements

Code	Title	Units
FIN 138	Principles of Risk Management and Insurance	3
FIN 139	Business Property and Liability Insurance	3
FIN 140	Employee Benefits	3
MGMT 20	Introduction To Business [1]	3
Total Units		12

[1] Business majors may substitute any approved upper-division business course. Substitution requires the approval of the Associate Dean for Undergraduate Programs.

Information Systems and Business Analytics

BS in Business Administration (Management Information Systems)

Units required for Major: 69
Total units required for BS: 120

Program Description

The Management Information Systems concentration provides the analytical framework and the methodology to analyze, design, implement, and manage complex computer-based information/decision systems.

Information is recognized as a resource of the organization and is the common link binding the elements of the organization together. As organizations grow in size and complexity, the need for better and more timely information and for improved decision making techniques becomes critical for effective management.

Note: The use of the words “business administration” throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University’s Foreign Language Graduation Requirement. Students who change major may be subject to the University’s Foreign Language Graduation Requirement.

Note: At least 15 units of upper division business administration courses must be taken in residence at (or under the auspices of) California State University, Sacramento. Of these 15 units, a minimum of nine units must be in upper division courses in the concentration.

Pre-Requisite Requirements

A student **may not enroll** in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of ’C-’ or better in each course and an overall GPA of 2.0 (’C’), with the exception of MATH 24 which requires a minimum acceptable grade of ’C’ or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

Code	Title	Units
MIS 15	Introduction to Business Programming (for MIS majors only)	3
DS 101	Data Analysis for Managers	3
MGMT 102	Business Communications	3
HROB 101	The Management of Contemporary Organizations	3

Computer Literacy

All business majors must meet spreadsheet competency **prior** to taking upper division courses in the major. This requires completing MIS 10 (or equivalent).

Minimum Grade Requirements

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is “C-” with the exception of MATH 24 which requires a minimum acceptable grade of ’C’ or better.

A minimum grade point average of 2.0 (“C”) is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

Program Requirements

Code	Title	Units
Required Lower Division (Pre-Requisites) Courses (21 Units)		
ACCY 1	Accounting Fundamentals	3
ACCY 2	Managerial Accounting	3
ECON 1A	Introduction to Macroeconomic Analysis [1]	3
ECON 1B	Introduction to Microeconomic Analysis [1]	3

MATH 24	Modern Business Mathematics [1]	3
MGMT 10	Introduction to Business Law	3
STAT 1	Introduction to Statistics [1]	3
Total Units		21

[1] Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file the supplemental business application to officially apply to Business Administration as their major. Visit www.csus.edu/cba/ubac/impaction.html (http://catalog.csus.edu/colleges/business-administration/information-systems-and-business-analytics/bs-in-business-administration-management-information-systems/www.csus.edu/cba/ubac/impaction.html) for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

Code	Title	Units
Required Upper Division (Major) Core Courses (24 Units)		
DS 101	Data Analysis for Managers	3
FIN 101	Business Finance	3
GM 105	Strategic Management	3
HROB 101	The Management of Contemporary Organizations	3
MGMT 102	Business Communications	3
MIS 101	Computer Information Systems for Management	3
MKTG 101	Principles Of Marketing	3
OPM 101	Operations Management	3
Total Units		24

Management Information Systems (MIS) Concentration (24 units)

Code	Title	Units
Required Courses (18 Units)		
MIS 15	Introduction to Business Programming	3
MIS 140	Business Data Communication	3
MIS 150	Database Systems for Business	3
MIS 160	Systems Development Life Cycle	3
MIS 161	Information Systems Practicum	3
MIS 170	Information Systems Security	3
Electives (6 Units)		
Select two of the following:		6
GEOG 109	Geographic Information Systems	
MIS 120	Advanced Object-Oriented Business Programming	
MIS 122	Object-Oriented Programming for Business in Java	
MIS 124	Web Development for Business Applications	
MIS 132		
MIS 163	Business Process Engineering and ERP Configuration	
MIS 171	Enterprise Resource Planning Systems	
MIS 181	Machine Learning Applications in Business	
MIS 182	Topics In MIS	
MIS 183	Business Intelligence Applications	
MIS 194	Cooperative Education Experience in Management Information Systems [1]	
Total Units		24

[1] Only 3 units of a 12-unit Co-op MIS 194 may count as an elective. A 12-unit Co-op is an approved full-time position in an approved work site. Please see the CBA Student Affairs Office (TAH 2065) for full details.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (10 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3

Graduation Requirements (required by Sacramento State) (6 Units)	
English Composition II	3
Race and Ethnicity in American Society (RE)	3
Foreign Language Proficiency Requirement [2]	0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/
Note: Students with a declared major of BS in Business Administration (all concentrations) are exempt from the Foreign Language Graduation Requirement.

Management and Organization

BS in Business Administration (Entrepreneurship)

Units required for Major: 63
Total units required for BS: 120

Program Description

The Entrepreneurship concentration is designed to meet the CBA Mission: "offering a quality business education that is responsive to the changing regional, global, and technology-driven environment" of the Sacramento region. It is to provide a solid understanding of entrepreneurial skills, principles, and strategies that build and maintain an effective organization. The curriculum is designed for students to develop entrepreneurial skills that will enable them to be effective in organizations that create new ventures, spin-offs, mergers, and other entrepreneurial activities. The courses of area emphasis are provided to develop the students' breadth and functional orientation to focus their entrepreneurial skills.

Note: The use of the words "business administration" throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/ Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Note: At least 15 units of upper division business administration courses must be taken in residence at (or under the auspices of) California State University, Sacramento. Of these 15 units, a minimum of nine units must be in upper division courses in the concentration.

Pre-Requisite Requirements

A student **may not enroll** in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of 'C-' or better in each course and an overall GPA of 2.0 ('C'), with the exception of MATH 24 which requires a minimum acceptable grade of 'C' or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

Code	Title	Units
DS 101	Data Analysis for Managers	3
MGMT 102	Business Communications	3
HROB 101	The Management of Contemporary Organizations	3

Computer Literacy

All business majors must meet spreadsheet competency **prior** to taking upper division courses in the major. This requires completing MIS 10 (or equivalent),

Minimum Grade Requirements

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is "C-" with the exception of MATH 24 which requires a minimum acceptable grade of 'C' or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

Program Requirements

Code	Title	Units
Required Lower Division (Pre-Requisites) Courses (21 Units)		
ACCY 1	Accounting Fundamentals	3
ACCY 2	Managerial Accounting	3
ECON 1A	Introduction to Macroeconomic Analysis [1]	3
ECON 1B	Introduction to Microeconomic Analysis [1]	3
MATH 24	Modern Business Mathematics [1]	3
MGMT 10	Introduction to Business Law	3
STAT 1	Introduction to Statistics [1]	3
Total Units		21

[1] Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file supplemental business application to officially apply the Business Administration as their major. Visit www.csus.edu/cba/ubac/Impaction.html (http://www.csus.edu/cba/ubac/Impaction.html) for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

Code	Title	Units
Required Upper Division (Major) Core Courses (24 Units)		
DS 101	Data Analysis for Managers	3
FIN 101	Business Finance	3
GM 105	Strategic Management	3
HROB 101	The Management of Contemporary Organizations	3
MGMT 102	Business Communications	3
MIS 101	Computer Information Systems for Management	3
MKTG 101	Principles Of Marketing	3
OPM 101	Operations Management	3
Total Units		24

Entrepreneurship (ENTR) Concentration (18 units)

Code	Title	Units
Required Courses (9 Units)		
ENTR 185	Venture Growth Strategies	3
ENTR 187	Entrepreneurship	3
ENTR 189	Corporate Entrepreneurship	3
Electives (9 Units)		
Select three from the following:		9
Accounting		
ACCY 111	Intermediate Accounting I	
ACCY 121	Cost Accounting	
Finance		
FIN 134	Financial Management	
FIN 137	Financial Institutions and Markets	
FIN 138	Principles of Risk Management and Insurance	
Fund Formation and Investments		
FIN 135	Investments	
FIN 136	Modern Portfolio Management	
Human Resources Management		
HROB 151	Management of Human Resources	
HROB 155	Conflict Management and Negotiation	
International Business		
FIN 190	Multinational Business Finance	
IBUS 190	International Business	
MKTG 190	Multinational Marketing	
Marketing		
MKTG 121	Marketing Research and Information	
MKTG 126	Salesmanship	
MKTG 129	Marketing Management	
Supply Chain Management		
MKTG 160	Principles of Quality Management	
MKTG 181	Supply Chain Logistics Management	
MKTG 186	Advanced Operations Planning and Control	
Special Emphasis		
Select other area emphasis courses approved by the Entrepreneurship Concentration Coordinator		
Total Units		18

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (10 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/
Note: Students with a declared major of BS in Business Administration (all concentrations) are exempt from the Foreign Language Graduation Requirement.

BS in Business Administration (General Management)

Units required for Major: 66
Total units required for BS: 120

Program Description

The General Management concentration permits a focus upon the skills of the manager, whether the manager is an entrepreneur or operating at the corporate or agency level, with emphasis on the skills of decision making as taught through the case method. Managerial skills in planning, organizing, and controlling are highly transferable within private industry and within the public and nonprofit sector as well, thus permitting a wide variety of career goals.

Note: The use of the words "business administration" throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/ Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Note: At least 15 units of upper division business administration courses must be taken in residence at (or under the auspices of) California State University, Sacramento. Of these 15 units, a minimum of nine units must be in upper division courses in the concentration.

Pre-Requisite Requirements

A student **may not enroll** in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of 'C-' or better in each course and an overall GPA of 2.0 ('C'), with the exception of MATH 24 which requires a minimum acceptable grade of 'C' or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

Code	Title	Units
DS 101	Data Analysis for Managers	3
MGMT 102	Business Communications	3
HROB 101	The Management of Contemporary Organizations	3

Computer Literacy

All business majors must meet spreadsheet competency **prior** to taking upper division courses in the major. This requires completing MIS 10 (or equivalent).

Minimum Grade Requirements

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is "C-" with the exception of MATH 24 which requires a minimum acceptable grade of 'C' or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

Program Requirements

Code	Title	Units
Required Lower Division (Pre-Requisites) Courses (21 Units)		
ACCY 1	Accounting Fundamentals	3
ACCY 2	Managerial Accounting	3
ECON 1A	Introduction to Macroeconomic Analysis [1]	3
ECON 1B	Introduction to Microeconomic Analysis [1]	3
MATH 24	Modern Business Mathematics [1]	3
MGMT 10	Introduction to Business Law	3
STAT 1	Introduction to Statistics [1]	3
Total Units		21

[1] Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file the supplemental business application to officially apply to Business Administration as their major. Visit www.csus.edu/cba/ubac/impaction.html (http://catalog.csus.edu/colleges/business-administration/management-and-organization/bs-in-business-administration-general-management/www.csus.edu/cba/ubac/impaction.html) for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

Code	Title	Units
Required Upper Division (Major) Core Courses (24 Units)		
DS 101	Data Analysis for Managers	3
FIN 101	Business Finance	3
GM 105	Strategic Management	3
HROB 101	The Management of Contemporary Organizations	3
MGMT 102	Business Communications	3

MIS 101	Computer Information Systems for Management	3
MKTG 101	Principles Of Marketing	3
OPM 101	Operations Management	3
Total Units		24

General Management (GM) Concentration (21 units)

Code	Title	Units
Required Courses (9 Units)		
ENTR 187	Entrepreneurship	3
GM 170	Fundamentals of Business Strategy	3
IBUS 190	International Business	3
Electives (12 Units)		
Select four from the following areas: [1]		12
Accountancy and MIS		
ACCY 121	Cost Accounting	
Decision Sciences		
MKTG 160	Principles of Quality Management	
MKTG 181	Supply Chain Logistics Management	
MKTG 186	Advanced Operations Planning and Control	
MKTG 188	Supply Chain Modeling and Analysis	
Finance		
FIN 134	Financial Management	
FIN 135	Investments	
FIN 138	Principles of Risk Management and Insurance	
Human Resources/Organizational Behavior and Environment		
HROB 151	Management of Human Resources	
HROB 152	Management Skills Seminar	
HROB 157	Labor Relations	
MGMT 117	Business, Ethics and Society [2]	
Marketing		
MKTG 115	Marketing Analytics	
MKTG 121	Marketing Research and Information	
MKTG 123	Public Relations and Ethics in Business	
MKTG 124	Retail Management	
MKTG 125	Advertising	
MKTG 126	Salesmanship	
MKTG 127	Sales Management	
MKTG 129	Marketing Management	
Total Units		21

[1] No more than one course may be taken in a single area.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (10 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6-9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		40-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following' option:
- If student chooses to take MGMT 117, they will meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6-9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0 - 3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department offers students a 'select from the following' option:
- If student chooses to take MGMT 117, they will meet the Writing Intensive (WI) graduation requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/ **Note:** Students with a declared major of BS in Business Administration (all concentrations) are exempt from the Foreign Language Graduation Requirement.

BS in Business Administration (Management of Human Resources & Organizational Behavior)

Units required for Major: 63
Total units required for BS: 120

Program Description

This concentration is a multi-disciplinary, integrated program designed to increase awareness and understanding of the relationship between human behavior and organizational effectiveness. Additionally, the program focuses on the development of a student's capacity to effectively manage people in diverse, contemporary organizations. Courses are designed to instill generalist principles and theories and to improve analytical and interpersonal skills. Such skills are developed within the context of utilizing human talent to meet the needs and objectives of the organization in a manner compatible with legitimate individual goals.

Note: The use of the words "business administration" throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/ Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Note: At least 15 units of upper division business administration courses must be taken in residence at (or under the auspices of) California State University, Sacramento. Of these 15 units, a minimum of nine units must be in upper division courses in the concentration.

Pre-Requisite Requirements

A student **may not enroll** in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of 'C-' or better in each course and an overall GPA of 2.0 ('C'), with the exception of MATH 24 which requires a minimum acceptable grade of 'C' or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

Code	Title	Units
DS 101	Data Analysis for Managers	3
MGMT 102	Business Communications	3
HROB 101	The Management of Contemporary Organizations	3

Computer Literacy

All business majors must meet spreadsheet competency **prior** to taking upper division courses in the major. This requires completing MIS 10 (or equivalent).

Minimum Grade Requirements

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is "C-" with the exception of MATH 24 which requires a minimum acceptable grade of 'C' or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

Program Requirements

Code	Title	Units
Required Lower Division (Pre-Requisites) Courses (21 Units)		
ACCY 1	Accounting Fundamentals	3
ACCY 2	Managerial Accounting	3
ECON 1A	Introduction to Macroeconomic Analysis [1]	3
ECON 1B	Introduction to Microeconomic Analysis [1]	3
MATH 24	Modern Business Mathematics [1]	3
MGMT 10	Introduction to Business Law	3
STAT 1	Introduction to Statistics [1]	3
Total Units		21

[1] Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file the supplemental business application to officially apply to Business Administration as their major. Visit www.csus.edu/cba/ubac/impaction.html for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

Code	Title	Units
Required Upper Division (Major) Core Courses (24 Units)		
DS 101	Data Analysis for Managers	3
FIN 101	Business Finance	3
GM 105	Strategic Management	3
HROB 101	The Management of Contemporary Organizations	3
MGMT 102	Business Communications	3
MIS 101	Computer Information Systems for Management	3
MKTG 101	Principles Of Marketing	3

OPM 101	Operations Management	3
Total Units		24

Management of Human Resources and Organizational Behavior (HROB) Concentration (18 units)

Code	Title	Units
Required Courses (12 Units)		
HROB 151	Management of Human Resources	3
HROB 152	Management Skills Seminar	3
HROB 153	Employment Law	3
HROB 154	Strategic Human Resources Management	3
Electives (6 Units)		
Select two of the following:		6
HROB 155	Conflict Management and Negotiation	
HROB 156	Current Trends and Emerging Issues	
HROB 157	Labor Relations	
HROB 158	Special Topics in Human Resource Management	
HROB 159	Special Topics in Organizational Behavior	
MGMT 117	Business, Ethics and Society [2]	
Total Units		18

[2] Course also satisfies General Education (GE)/Graduation Requirement.

Note: With faculty advisor approval, students may also elect to take one of the following:

Code	Title	Units
ECON 150	Labor Economics	3
FIN 140	Employee Benefits	3
MKTG 160	Principles of Quality Management	3
PSYC 169	Industrial Psychology	3

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (10 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6-9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		40-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following' option:
- If student chooses to take MGMT 117, they will meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6-9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0 - 3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department offers students a 'select from the following' option:
- If student chooses to take MGMT 117, they will meet the Writing Intensive (WI) graduation requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Business Administration (all concentrations) are exempt from the Foreign Language Graduation Requirement.

Minor in Management of Human Resources & Organizational Behavior

Units required for the Minor: 18, of which at least 9 upper division units must be taken in residence.

Program Description

The minor in Human Resources Management is designed to provide students majoring in other fields with the opportunity to broaden their capabilities to enter their chosen fields and/or enhance their career paths at some later time.

Program Requirements

Code	Title	Units
HROB 101	The Management of Contemporary Organizations	3
HROB 151	Management of Human Resources	3
HROB 152	Management Skills Seminar	3
HROB 153	Employment Law	3
HROB 154	Strategic Human Resources Management	3
Select one of the following:		3
HROB 155	Conflict Management and Negotiation	
HROB 156	Current Trends and Emerging Issues	
HROB 157	Labor Relations	
HROB 158	Special Topics in Human Resource Management	
HROB 159	Special Topics in Organizational Behavior	
MGMT 117	Business, Ethics and Society	
Total Units		18

Marketing and Supply Chain Management

BS in Business Administration (Marketing)

Units required for Major: 66
Total units required for BS: 120

Program Description

Students may choose either the Marketing Track or the Supply Chain Management Track

The Marketing Track emphasizes the conceptual understanding and development of professional skills essential to marketing-oriented careers in such fields as e-commerce, advertising, public relations, product and service management, retail management, international marketing, marketing research, and sales management. Consideration is given to the roles of marketing in a global economy, in our society, and within both profit and not-for-profit organizations. The study of marketing includes human behavior, communication, entrepreneurship, problem solving, technological innovation, ethics, and environmentalism. For nonbusiness majors, the study of marketing provides a perspective of how organizations can satisfy the needs of their constituencies.

The Supply Chain Management (SCM) Track is concerned with organizations, methods, and processes employed in managing and improving supply chain and operations systems which provide goods or services to fulfill customer needs and wants in both local and global markets in a flexible, adaptable, reliable, cost effective and sustainable manner. Students who select the SCM Track are provided with a well-balanced program of qualitative and quantitative subject matter and should be able to assume first-line staff or management positions in supply chain and operations systems for manufacturing, service, or government organizations.

Note: The use of the words “business administration” throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/ Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University’s Foreign Language Graduation Requirement. Students who change major may be subject to the University’s Foreign Language Graduation Requirement.

Note: At least 15 units of upper division business administration courses must be taken in residence at (or under the auspices of) California State University, Sacramento. Of these 15 units, a minimum of nine units must be in upper division courses in the concentration.

Pre-Requisite Requirements

A student **may not enroll** in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of ’C-’ or better in each course and an overall GPA of 2.0 (’C’), with the exception of MATH 24 which requires a minimum acceptable grade of ’C’ or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

Code	Title	Units
MIS 15	Introduction to Business Programming (for MIS majors only)	3
DS 101	Data Analysis for Managers	3
MGMT 102	Business Communications	3
HROB 101	The Management of Contemporary Organizations	3

Computer Literacy

All business majors must meet spreadsheet competency **prior** to taking upper division courses in the major. This requires completing MIS 10 or equivalent.

Minimum Grade Requirements

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is “C-” with the exception of MATH 24 which requires a minimum acceptable grade of ’C’ or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

Program Requirements

Code	Title	Units
Required Lower Division (Pre-Requisites) Courses (21 Units)		
ACCY 1	Accounting Fundamentals	3
ACCY 2	Managerial Accounting	3
ECON 1A	Introduction to Macroeconomic Analysis [1]	3
ECON 1B	Introduction to Microeconomic Analysis [1]	3
MATH 24	Modern Business Mathematics [1]	3
MGMT 10	Introduction to Business Law	3
STAT 1	Introduction to Statistics [1]	3
Total Units		21

[1] Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file a supplemental business application to officially apply to Business Administration as their major. Visit www.csus.edu/cba/ubac/impaction.html for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

Code	Title	Units
Required Upper Division (Major) Core Courses (24 Units)		
DS 101	Data Analysis for Managers	3
FIN 101	Business Finance	3
GM 105	Strategic Management	3
HROB 101	The Management of Contemporary Organizations	3
MGMT 102	Business Communications	3
MIS 101	Computer Information Systems for Management	3
MKTG 101	Principles Of Marketing	3
OPM 101	Operations Management	3
Total Units		24

Marketing (MKTG) Concentration (21 units)

Marketing Track

Code	Title	Units
Group A Required Courses (9 Units)		
MKTG 121	Marketing Research and Information	3
MKTG 122	Buyer Behavior	3
MKTG 129	Marketing Management	3
Group B Electives (9 Units)		
Select three of the following:		9
MKTG 115	Marketing Analytics	
MKTG 123	Public Relations and Ethics in Business	
MKTG 124	Retail Management	
MKTG 125	Advertising	
MKTG 130	Digital Marketing	
MKTG 140	Sports Marketing	
MKTG 181	Supply Chain Logistics Management	
MKTG 190	Multinational Marketing	
Group C Electives (3 Units)		
Select one of the following or any course not taken from Group B:		3
BUS 162	Project Management	
ENTR 187	Entrepreneurship	
FIN 134	Financial Management	
IBUS 190	International Business	
MKTG 160	Principles of Quality Management	
MKTG 199	Special Problems in Marketing	
Total Units		21

Supply Chain Management Track

Code	Title	Units
Group A Required Courses (9 Units)		
MKTG 121	Marketing Research and Information	3
MKTG 160	Principles of Quality Management	3
MKTG 181	Supply Chain Logistics Management	3
Group B Courses (9 Units)		
Select three of the following:		9
MKTG 129	Marketing Management	
MKTG 186	Advanced Operations Planning and Control	
MKTG 188	Supply Chain Modeling and Analysis	
MKTG 190	Multinational Marketing	
Group C Electives (3 Units)		
Select one of the following or any course not taken from Group B:		3
ACCY 121	Cost Accounting	
ACCY 122	Advanced Management Accounting	
ACCY 190	International Accounting	
GM 170	Fundamentals of Business Strategy	
BUS 162	Project Management	
HROB 155	Conflict Management and Negotiation	
IBUS 190	International Business	
MIS 132		
MIS 163	Business Process Engineering and ERP Configuration	
MIS 171	Enterprise Resource Planning Systems	
MKTG 115	Marketing Analytics	
MKTG 124	Retail Management	
MKTG 130	Digital Marketing	
MKTG 199A	Special Problems in Supply Chain Management	
Total Units		21

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (10 Units)		
B1 - Physical Science		3
B2 - Life Forms		3

B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)	1
B4 - Math Concepts [2]	0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.	3
Area C: Arts and Humanities (12 Units)	
C1 - Arts	3
C2 - Humanities	3
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (9 Units)	
Area D Course	3
Area D Course	3
Area D Course [2]	0
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Business Administration (all concentrations) are exempt from the Foreign Language Graduation Requirement.

BS in Business Administration (Supply Chain Management)

Units required for Major: 66
Total units required for BS: 120

Program Description

The Supply Chain Management (SCM) Concentration is concerned with organizations, methods, and processes employed in managing and improving supply chain and operations systems which provide goods or services to fulfill customer needs and wants in both local and global markets in a flexible, adaptable, quality, reliable, cost effective, environmentally sustainable, ethically sound and socially responsible manner. Students who select the SCM Concentration are provided with a well-balanced program of qualitative and quantitative subject matter and should be able to assume first-line staff or management positions in supply chain and operations systems for manufacturing, service, or government organizations.

Note: The use of the words “business administration” throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University’s Foreign Language Graduation Requirement. Students who change major may be subject to the University’s Foreign Language Graduation Requirement.

Note: At least 15 units of upper division business administration courses must be taken in residence at (or under the auspices of) California State University, Sacramento. Of these 15 units, a minimum of nine units must be in upper division courses in the concentration.

Pre-Requisite Requirements

A student **may not enroll** in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of ’C-’ or better in each course and an overall GPA of 2.0 (’C’), with the exception of MATH 24 which requires a minimum acceptable grade of ’C’ or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

Code	Title	Units
DS 101	Data Analysis for Managers	3
MGMT 102	Business Communications	3
HROB 101	The Management of Contemporary Organizations	3

Computer Literacy

All business majors must meet spreadsheet competency **prior** to taking upper division. This requires completing MIS 10 (or equivalent).

Minimum Grade Requirement

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is "C-" with the exception of MATH 24 which requires a minimum acceptable grade of 'C' or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

Program Requirements

Code	Title	Units
Required Lower Division (Pre-Requisites) Courses (21 Units)		
ACCY 1	Accounting Fundamentals	3
ACCY 2	Managerial Accounting	3
ECON 1A	Introduction to Macroeconomic Analysis [1]	3
ECON 1B	Introduction to Microeconomic Analysis [1]	3
MATH 24	Modern Business Mathematics [1]	3
MGMT 10	Introduction to Business Law	3
STAT 1	Introduction to Statistics [1]	3
Total Units		21

[1] Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file the supplemental business application to officially apply to Business Administration as their major. Visit www.csus.edu/cba/ubac/iimpaction.html for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

Code	Title	Units
Required Upper Division (Major) Core Courses (24 Units)		
DS 101	Data Analysis for Managers	3
FIN 101	Business Finance	3
GM 105	Strategic Management	3
HROB 101	The Management of Contemporary Organizations	3
MGMT 102	Business Communications	3
MIS 101	Computer Information Systems for Management	3
MKTG 101	Principles Of Marketing	3
OPM 101	Operations Management	3
Total Units		24

Supply Chain Management (SCM) Concentration (21 units)

Code	Title	Units
Group A Required Courses (9 Units)		
MKTG 121	Marketing Research and Information	3
MKTG 160	Principles of Quality Management	3
MKTG 181	Supply Chain Logistics Management	3
Group B Courses (9 Units)		
Select three of the following:		9
MKTG 129	Marketing Management	
MKTG 186	Advanced Operations Planning and Control	
MKTG 188	Supply Chain Modeling and Analysis	
MKTG 190	Multinational Marketing	
Group C Electives (3 Units)		
Select one of the following or any course not taken from Group B:		3
ACCY 121	Cost Accounting	
ACCY 122	Advanced Management Accounting	
ACCY 190	International Accounting	
GM 170	Fundamentals of Business Strategy	
BUS 162	Project Management	
HROB 155	Conflict Management and Negotiation	
IBUS 190	International Business	
MIS 132		
MIS 163	Business Process Engineering and ERP Configuration	
MIS 171	Enterprise Resource Planning Systems	
MKTG 115	Marketing Analytics	
MKTG 124	Retail Management	
MKTG 130	Digital Marketing	
MKTG 199A	Special Problems in Supply Chain Management	
Total Units		21

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (10 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3

C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (9 Units)	
Area D Course	3
Area D Course	3
Area D Course [2]	0
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Business Administration (all concentrations) are exempt from the Foreign Language Graduation Requirement.

Minor in Marketing

Units required for the Minor: 15, of which at least nine upper division units must be taken in residence.

Program Description

The minor in Marketing is designed for students that are interested in learning how marketing concepts are applied in profit and nonprofit organizations and government agencies. Majors in Communication Studies, Recreation and Leisure Studies, Liberal Arts, Graphic Design and Fashion Merchandising may find the minor in Marketing is helpful in achieving their career objectives.

Program Requirements

Code	Title	Units
MKTG 101	Principles Of Marketing	3
Select four of the following:		12
MKTG 115	Marketing Analytics	
MKTG 121	Marketing Research and Information	
MKTG 122	Buyer Behavior	
MKTG 123	Public Relations and Ethics in Business	
MKTG 124	Retail Management	
MKTG 125	Advertising	
MKTG 126	Salesmanship	
MKTG 127	Sales Management	
MKTG 129	Marketing Management	
MKTG 130	Digital Marketing	
MKTG 190	Multinational Marketing	
Total Units		15

Strategy and Entrepreneurship

BS in Business Administration (International Business)

Units required for Major: 66
Units required for Major with additional Emphasis: 75
Total units required for BS: 120

Program Description

The International Business concentration is designed to prepare students for a career in business by providing a broad exposure to the areas of international business, competency in a functional area of business, and an awareness of foreign cultural differences.

The Emphasis in Sustainability Business is designed to introduce students to the emerging field of sustainability in business and the growing focus on the social, environmental, and economic performance of businesses in global economy. The coursework presents the scientific, moral, and business cases for adopting sustainability.

Note: The use of the words “business administration” throughout this section refers to courses designated as Accountancy (ACCY), Accounting Information Systems (AIS), Decision Sciences (DS), Entrepreneurship (ENTR), Finance (FIN), General Management (GM), Human Resources/

Organizational Behavior (HROB), International Business (IBUS), Management (MGMT), Management Information Science (MIS), Marketing (MKTG), and Operations Management (OPM).

Note: Students graduating with a Bachelor of Science in Business Administration (all concentrations) will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Note: At least 15 units of upper division business administration courses must be taken in residence at (or under the auspices of) California State University, Sacramento. Of these 15 units, a minimum of nine units must be in upper division courses in the concentration.

Pre-Requisite Requirements

A student **may not enroll** in any of the Major program or Concentration courses until he/she has completed the Pre-Requisite lower division program with a grade of 'C-' or better in each course and an overall GPA of 2.0 ('C'), with the exception of MATH 24 which requires a minimum acceptable grade of 'C' or better.

Students enrolled as Expressed Interest in Business may enroll in the following courses after completing the lower division pre-requisite requirements:

Code	Title	Units
DS 101	Data Analysis for Managers	3
MGMT 102	Business Communications	3
HROB 101	The Management of Contemporary Organizations	3

Computer Literacy

All business majors must meet spreadsheet competency **prior** to taking 100-level business courses. This requires completing MIS 10 (or equivalent).

Minimum Grade Requirements

The purpose of this requirement is to assure that all business administration students attain the minimum level of competency in all their coursework required for the business administration degree.

The minimum acceptable grade for any undergraduate course required for the business administration degree is "C-" with the exception of MATH 24 which requires a minimum acceptable grade of 'C' or better.

A minimum grade point average of 2.0 ("C") is required in the Pre-Requisite courses, Major Core courses, and the Concentration courses presented for the degree.

Program Requirements

Code	Title	Units
Required Lower Division (Pre-Requisites) Courses (21 Units)		
ACCY 1	Accounting Fundamentals	3
ACCY 2	Managerial Accounting	3
ECON 1A	Introduction to Macroeconomic Analysis [1]	3
ECON 1B	Introduction to Microeconomic Analysis [1]	3
MATH 24	Modern Business Mathematics [1]	3
MGMT 10	Introduction to Business Law	3
STAT 1	Introduction to Statistics [1]	3
Total Units		21

[1] Course also satisfies General Education (GE)/Graduation Requirement.

When enrolled in the last of the pre-requisite courses, students must file the supplemental business application to officially apply to Business Administration as their major. Visit www.csus.edu/cba/ubac/impaction.html for more information.

Students who do not complete the required prerequisites as presented in the following Business Major program are subject to being administratively dropped from courses in which they are inappropriately enrolled.

Code	Title	Units
Required Upper Division (Major) Core Courses (24 Units)		
DS 101	Data Analysis for Managers	3
FIN 101	Business Finance	3
GM 105	Strategic Management	3
HROB 101	The Management of Contemporary Organizations	3
MGMT 102	Business Communications	3
MIS 101	Computer Information Systems for Management	3
MKTG 101	Principles Of Marketing	3
OPM 101	Operations Management	3
Total Units		24

International Business (IBUS) Concentration (21 units)

Code	Title	Units
Required Courses (12 Units)		
FIN 190	Multinational Business Finance	3
IBUS 190	International Business	3
MKTG 190	Multinational Marketing	3
Select one of the following:		3
ACCY 190	International Accounting	
ENTR 187	Entrepreneurship	
IBUS 180	Sustainability Business in Global Economy	
Electives (9 Units)		
Select 9 units from one of the following areas:		9
Accounting		
ACCY 111	Intermediate Accounting I	
ACCY 121	Cost Accounting	
ACCY 171	Federal Tax Procedures I	
Economics		
ECON 190	International Trade	
ECON 192	International Finance	
ECON 193	Development Economics	
GEOG 141	Geography of Economic Activity	
Finance		
FIN 134	Financial Management	
FIN 135	Investments	
FIN 136	Modern Portfolio Management	
FIN 137	Financial Institutions and Markets	
FIN 138	Principles of Risk Management and Insurance	

Foreign Language	
Select an approved upper division language [1]	
Human Resources Management	
HROB 151	Management of Human Resources
HROB 155	Conflict Management and Negotiation
HROB 156	Current Trends and Emerging Issues
HROB 157	Labor Relations
Marketing	
MKTG 121	Marketing Research and Information
MKTG 122	Buyer Behavior
MKTG 123	Public Relations and Ethics in Business
MKTG 125	Advertising
MKTG 126	Salesmanship
MKTG 129	Marketing Management
Supply Chain Management	
MKTG 160	Principles of Quality Management
MKTG 181	Supply Chain Logistics Management
MKTG 186	Advanced Operations Planning and Control
MKTG 188	Supply Chain Modeling and Analysis
Overseas University Study	
Select approved overseas university study [1]	
Special Emphasis	
Select approved area emphasis [1]	
Total Units	21

[1] Approved by IB coordinator. *Must be approved on an "Action Sheet." See the Undergraduate Business Advising Center.*

Emphasis in Sustainability Business (9 units)

Code	Title	Units
Track A - For students who have taken IBUS 180 (9 Units)		
Group A (Environmental Sustainability) - Select one course from the following		*3*
GEOG 118	Earth Transformed	
GEOG 161	California's Water Resources	
GEOL 130	Oceanography [2]	
ENVS 138	Introduction to Environmental Sociology	
or SOC 138	Environmental Sociology	
Group B (Economic Sustainability) - Select one of the following		*3*
ECON 120	Economics and Environmental Degradation	
ECON 123	Resource Economics	
ECON 162	Energy Economics	
ECON 193	Development Economics	
Select any course not already taken in Group A or Group B		*3*

Code	Title	Units
Track B - For students who have not taken IBUS 180 (9 Units)		
IBUS 180	Sustainability Business in Global Economy	3
Group A (Environmental Sustainability) - Select one of the following		*3*
GEOG 118	Earth Transformed	
GEOG 161	California's Water Resources	
GEOL 130	Oceanography [2]	
ENVS 138	Introduction to Environmental Sociology	
or SOC 138	Environmental Sociology	
Group B (Economic Sustainability) - Select one of the following		*3*
ECON 120	Economics and Environmental Degradation	
ECON 123	Resource Economics	
ECON 162	Energy Economics	

[2] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (7-10 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		40-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following' option:
- If student chooses to take GEOL 130, they will meet Area B5.

Note: This option **only** applies to students who are completing the Emphasis in Sustainability Business.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Business Administration (all concentrations) are exempt from the Foreign Language Graduation Requirement.

MBA (Entrepreneurship and Global Business)

Total units required for MBA: 33

Program Description

The **MBA** program has been developed to provide an education that is extensive and broadening rather than intensive or specialized within a limited functional area. The MBA is intended to improve the participant's capacity for effective decision making, to facilitate his/her professional growth and development for increasing managerial responsibility, and to broaden his/her knowledge and understanding of management in the areas of:

- Accountancy
- Finance
- International Management
- Management Information Systems
- Supply Chain Management

The MBA is also appropriate preparation for teaching business education subjects at the community college level. Students are encouraged to obtain further guidance from the school districts in which they will teach.

Admission Requirements

All applicants for post-baccalaureate degree programs in Business must have earned a baccalaureate degree from a regionally accredited four-year institution of higher learning or the equivalent from a foreign institution. Admission requirements are different for each of the CBA Graduate Programs. The specific admission requirements for each degree program are listed within the program descriptions under “Admission Information” on the following pages. The College of Business Administration reserves the rights to revise its admissions standards and to limit enrollment in its graduate degree programs.

Applicants who are approved for admission will receive a letter from the Office of Graduate Studies informing them that they have been admitted as a Pre-Master or classified graduate student. Included with that correspondence will be an Acceptance Form which the new graduate student must then return to the CBA Graduate Business Advising Center (GBAC), Tahoe Hall 1037.

Admission Criteria for the MBA Program:

1. Index 1 of 1050 or Index 2 of 1100 (see description below);
2. GMAT Total score of 500;
3. GMAT Quantitative percentile of 30;
4. GMAT Verbal percentile of 30; and
5. 2.50 Overall Undergraduate GPA.

Index #1 - (GPA x 200) + GMAT total score. An index of 1050 is required using the overall undergraduate GPA.

Index #2 - (GPA x 200) + GMAT total score. An index of 1100 is required using the last 60 semester units (last 90 quarter units) undergraduate GPA.

Example: [3.0 GPA x 200] + 500 GMAT total score = 1100

Note: We reserve the right to admit fewer applicants that those meeting the minimum criteria.

Deadlines

See the CBA Web site for current admission deadlines: www.cba.csus.edu/graduate/MBA (http://www.cba.csus.edu/graduate/MBA/)

Special Admission Process

Applicants not meeting all the admission criteria may be admitted to the program based on evidence of potential success in the program provided by the applicant. Such evidence may include, but is not limited to: the applicant’s maturity, motivation, employment history, managerial potential, letters of recommendation, personal statement, community activities, and other accomplishments that support the applicant’s potential to successfully complete the program. An applicant so considered and recommended for admission may be approved by the Dean or Dean’s designee.

Application Procedures

All prospective graduate students must file all of the following documents by the application deadline with both the CBA Graduate Business Advising Center (Tahoe Hall 1037) and the Sacramento State Office of Graduate Studies (River Front Center 206) as noted below:

1. To the College of Business Administration, Graduate Business Advising Center:
   - 1 Set of Official Transcripts;
   - GMAT Scores;
   - Recommendation Letters (two letters are strongly preferred); and
   - Resume.
2. To Sacramento State Office of Graduate Studies:

- Online CSU Graduate Application (www.csus.edu/gradstudies (http://www.csus.edu/gradstudies/));
- 1 Set of Official Transcripts; and
- Application Fee as required by the CSU system (You can pay this when you are filling out your online application).

Note: Applications are not considered complete and will not be reviewed unless GMAT scores and transcripts are included. To facilitate processing your application so that you receive an admission decision more quickly, you must submit official transcripts from ALL colleges and universities previously attended (other than courses taken at Sacramento State) even if you attended Sacramento State as an undergraduate. You should arrange to have those official transcripts sent at the same time you submit your application.

International Students

All materials, inclusive of TOEFL scores, must be turned in to the International Admissions Office (Lassen Hall 2304). To ensure consideration, international students should submit their material, including GMAT and TOEFL test scores, to the International Admissions Office one month prior to the CBA Graduate Business Advising Center's (GBAC) application filing deadline. For an application and details international students should visit The International Admissions Office Web site at http://www.csus.edu/oge/international-admissions/.

Application Submission

For Graduate Programs: MBA, MS/ACCY, and CABS:

College of Business Administration
Graduate Business Advising Center (GBAC)
Tahoe Hall, Room 1037
Sacramento State
6000 J Street
Sacramento, CA 95819-6088
Web site: csus.edu/cba/graduate/index (http://www.csus.edu/cba/graduate/)
Phone: (916) 278-6772
Fax: (916) 278-4943
Email: cba-gbac@saclink.csus.edu

And to:

Office of Graduate Studies
Sacramento State
River Front Center, Room 215
6000 J Street
Sacramento, CA 95819-6112
Web site: csus.edu/cba/graduate/index (http://www.csus.edu/cba/graduate/)
Phone: (916) 278-6470
Email: gradctr@csus. (gradctr@csus.edu)edu (gradctr@csus.edu)

Prerequisites

Prior to enrolling in the Foundation courses, students must be proficient in mathematics, statistics, and computer usage:

- Mathematics: at least one semester of calculus is strongly preferred;
- Statistics: an introductory course in probability and statistics; and
- Computer usage: ability to use common personal computer hardware and software, particularly word processing programs, spreadsheet programs, and internet browsers.

The faculty will assume that all MBA students have these proficiencies. A student may gain the necessary proficiencies in many ways: through coursework, review classes, self-study; or experience. No proficiency courses can count as credit towards program requirements.

Writing Placement for Graduate Students Exam

All graduate students are expected to have demonstrated writing proficiency at the undergraduate level as prescribed by the California State University System. Applicants for admission to graduate programs who have not fulfilled this requirement will be required to take the Writing Placement for Graduate Students (WPG) or take a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver. A student may be eligible for a WPG Waiver based on selected criteria (obtain a list of criteria and a WPG waiver from the Graduate Business Advising Center). Graduate students are required to meet this requirement **before** advancing to candidacy. No exceptions will be made to this policy.

Foundation Courses

The Foundation courses provide an academic background in the various disciplines of business. The MBA degree program is built upon this common background. Foundation courses should be taken after the student has attained the required entry proficiencies (prerequisites) and should be completed prior to taking program requirement courses. The Foundation courses are available through the Sacramento State College of Continuing Education.

A student who has a baccalaureate degree or a minor in Business Administration from an **AACSB-INTERNATIONAL** accredited university may have completed all or most of the Foundation requirements. However, the student will be required to take certain Foundation courses if she/he:

1. has not previously completed the comparable undergraduate course(s) for academic credit from an AACSB-INTERNATIONAL accredited institution or from a high quality program that has a 'national or international reputation';
2. has earned less than an overall 3.0 ('B') grade point average (GPA) in the comparable undergraduate courses presented for waiver of required courses;
3. has received a 'C' or lower grade in the comparable undergraduate course;
4. cannot demonstrate currency in these courses (7 year limit); or
5. has completed the bachelor's degree at a foreign institution.

Courses taken at **AACSB-INTERNATIONAL** accredited colleges of business will be accepted for transfer credit if the course is regarded as equivalent to the course for which credit is requested. Business Foundation courses and Core courses will not be accepted for transfer credit from programs that are not **AACSB-INTERNATIONAL** accredited unless taken at institutions that have national or international reputations of high quality programs.

Please contact the Graduate Business Advising Center (GBAC) Tahoe Hall 1037 to request petitions for equivalency for graduate, non-articulated courses. The CBA Academic Standards Committee will evaluate whether the institutions satisfy the requirement of 'national or international reputations of high quality programs.' Subsequently, faculty in the appropriate department will make the final determination for course equivalency, e.g., content, method of instruction, method of evaluating

students, and/or course duration. To find out if your university is AACSB accredited go to www.AACSB.edu (http://www.aacsb.edu/).

Pre-Master students who are registered in the last two Foundation courses must file an Application for Classification with the Graduate Business Advising Center (GBAC) Tahoe Hall 1037, to be able to enroll in the courses designated as Program Requirements. The student's academic status will be reviewed to assure that he/she meets the necessary criteria to be accepted as a classified graduate student.

A GPA of at least 3.0 ('B') is required in all Foundation courses taken at Sacramento State, and program requirement courses presented for the degree.

Foundation Courses (0-11 units)

The foundation courses are available through the College of Continuing Education after acceptance into one of the CBA Graduate Programs.

Note: To be completed after the student has demonstrated the required entry proficiencies and must be completed prior to taking Program Requirements in any of the Master's programs.

All of the Foundation Courses below are required for the MBA and the MSBA/MIS programs. MSBA/Taxation and MS/Accountancy programs only require the following:

Code	Title	Units
ECON 204	Business Economics	3
MBA 201	Accounting	2
MBA 203	Legal Environment of Management	2

Note: The EMBA program does not require Foundation coursework.

A graduate student may request a challenge for waiver of a College of Business Administration foundation or core course if it at least one of the following conditions is met:

- The student has taken an equivalent class elsewhere, subject to the GPA requirement in CBA academic policy. For core classes, the equivalent class must be at the graduate level; for the foundation classes, the equivalent class can be taken at the undergraduate level.
- The student has achieved appropriate professional or academic qualification.
- The student has appropriate professional work experience.

It is the responsibility of a student to provide sufficient documentation to support a waiver challenge application.

Code	Title	Units
ECON 204	Business Economics	3
MBA 201	Accounting	2
MBA 202	Business Communication [1]	2
MBA 203	Legal Environment of Management	2
MBA 206	Managerial Statistics Analysis	2

[1] This requirement will be waived for students who achieve a score of 4.5 or higher on the Analytical Writing Assessment (AWA) section of the GMAT exam.

Minimum Units and Grade Requirement for the Degree

Units required for MBA: 33 (excluding foundation courses)

Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course is "C." No more than two (2) courses with a grade of "C" will be counted for satisfaction of graduate program requirements.

Advancement to Candidacy

A student's program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business Administration may apply to the Graduate Business Advising Center (GBAC) for advancement to candidacy for the Master's degree after s/he has completed at least 12 units of the program requirements beyond the Foundation requirements. Students with a GPA deficiency or who have not fulfilled the Writing Placement for Graduate Students Requirement (WPG) cannot advance to candidacy.

Program Requirements

Code	Title	Units
Required Core Courses (15 Units)		
MBA 210	Managerial Accounting	3
MBA 220	Financial Management	3
MBA 230	Behavior Science Applications in Management	3
MBA 240	Marketing Management	3
MBA 280	Value Chain Integration	3
Elective Group A (9 Units)		
Select at least three of the following:		9
MBA 232	Negotiation and Relationship Management	
MBA 235	Management Of Innovation	
MBA 243	Global Marketing Environment	
MBA 270	Global Business Management	
MBA 271	Integrated Entrepreneurship Management	
MBA 272	Entrepreneurial Resources Management	
MBA 282	Global Supply Chain Management	
Elective Group B (6 Units)		
Select at least two MBA 200-level courses which are not in Group A		6
Culminating Experience (3 Units)		
Select one of the following:		3
MBA 501	Culminating Experience Project in Business and Strategy	
MBA 500A	Thesis	
MBA 500B	Project	
Total Units		33

MBA International (IMBA)

Total units required for MBA: 36

Program Description

The College of Business Administration (CBA) in conjunction with the College of Continuing Education (CCE), proposes to offer a self-supported Master of Business Administration International degree program (IMBA).

The academic background of each applicant will be assessed to determine if they have the educational foundation to be successful in the program. Depending on their backgrounds and skills, individuals may be required to take up to three preparatory courses. They are:

- Statistics
- Financial Accounting
- Business Economics

The program consists of twelve 3 unit courses to provide in depth knowledge and skills for students. The twelve courses include eight core courses and four courses from a specific area of emphasis: Finance, International Management, and Information Technology.

Admission Requirements

All applicants for post-baccalaureate degree programs in Business must have earned a baccalaureate degree from a regionally accredited four-year institution of higher learning or the equivalent from a foreign institution. Admission requirements are different for each of the CBA Graduate Programs. The specific admission requirements for each degree program are listed within the program descriptions under "Admission Information" on the following pages. The College of Business Administration reserves the rights to revise its admissions standards and to limit enrollment in its graduate degree programs.

Applicants who are approved for admission will receive a letter from the Office of Graduate Studies informing them that they have been admitted as a Pre-Master or classified graduate student. Included with that correspondence will be an Acceptance Form which the new graduate student must then return to the CBA Graduate Business Advising Center (GBAC), Tahoe Hall 1037.

Admission Criteria for the MBA Program:

1. Index 1 of 1050 or Index 2 of 1100 (see description below);
2. GMAT Total score of 500;
3. GMAT Quantitative percentile of 30;
4. GMAT Verbal percentile of 30; and
5. 2.50 Overall Undergraduate GPA.

Index #1 - (GPA x 200) + GMAT total score. An index of 1050 is required using the overall undergraduate GPA.

Index #2 - (GPA x 200) + GMAT total score. An index of 1100 is required using the last 60 semester units (last 90 quarter units) undergraduate GPA.

Example: [3.0 GPA x 200] + 500 GMAT total score = 1100

Note: We reserve the right to admit fewer applicants that those meeting the minimum criteria.

Deadlines

See the CBA Web site for current admission deadlines: www.cba.csus.edu/graduate/MBA (http://www.cba.csus.edu/graduate/MBA/)

Special Admission Process

Applicants not meeting all the admission criteria may be admitted to the program based on evidence of potential success in the program provided by the applicant. Such evidence may include, but is not limited to: the applicant's maturity, motivation, employment history, managerial potential, letters of recommendation, personal statement, community activities, and other accomplishments that support the applicant's potential to successfully complete the program. An applicant so considered and recommended for admission may be approved by the Dean or Dean's designee.

Application Procedures

All prospective graduate students must file all of the following documents by the application deadline with both the CBA Graduate Business Advising Center (Tahoe Hall 1037) and the Sacramento State Office of Graduate Studies (River Front Center 206) as noted below:

1. To the College of Business Administration, Graduate Business Advising Center:
   - 1 Set of Official Transcripts;
   - GMAT Scores;
   - Recommendation Letters (two letters are strongly preferred); and
   - Resume.
2. To Sacramento State Office of Graduate Studies:
   - Online CSU Graduate Application (www.csus.edu/gradstudies (http://www.csus.edu/gradstudies/));
   - 1 Set of Official Transcripts; and
   - Application Fee as required by the CSU system (You can pay this when you are filling out your online application).

Note: Applications are not considered complete and will not be reviewed unless GMAT scores and transcripts are included. To facilitate processing your application so that you receive an admission decision more quickly, you must submit official transcripts from ALL colleges and universities previously attended (other than courses taken at Sacramento State) even if you attended Sacramento State as an undergraduate. You should arrange to have those official transcripts sent at the same time you submit your application.

International Students

All materials, inclusive of TOEFL scores, must be turned in to the International Admissions Office (Lassen Hall 2304). To ensure consideration, international students should submit their material, including GMAT and TOEFL test scores, to the International Admissions Office one month prior to the CBA Graduate Business Advising Center's (GBAC) application filing deadline. For an application and details international students should visit The International Admissions Office Web site at http://www.csus.edu/oge/international-admissions/.

Application Submission

For Graduate Programs: MBA, MS/ACCY, and CABS:

College of Business Administration
Graduate Business Advising Center (GBAC)
Tahoe Hall, Room 1037
Sacramento State
6000 J Street
Sacramento, CA 95819-6088
Web site: csus.edu/cba/graduate/index (http://www.csus.edu/cba/graduate/)
Phone: (916) 278-6772
Fax: (916) 278-4943

Email: cba-gbac@saclink.csus.edu

And to:

Office of Graduate Studies
Sacramento State
River Front Center, Room 215
6000 J Street
Sacramento, CA 95819-6112
Web site: csus.edu/cba/graduate/index (http://www.csus.edu/cba/graduate/)
Phone: (916) 278-6470
Email: gradctr@csus. (gradctr@csus.edu)edu (gradctr@csus.edu)

Prerequisites

Prior to enrolling in the Foundation courses, students must be proficient in mathematics, statistics, and computer usage:

- Mathematics: at least one semester of calculus is strongly preferred;
- Statistics: an introductory course in probability and statistics; and
- Computer usage: ability to use common personal computer hardware and software, particularly word processing programs, spreadsheet programs, and internet browsers.

The faculty will assume that all MBA students have these proficiencies. A student may gain the necessary proficiencies in many ways: through coursework, review classes, self-study; or experience. No proficiency courses can count as credit towards program requirements.

Writing Placement for Graduate Students Exam

All graduate students are expected to have demonstrated writing proficiency at the undergraduate level as prescribed by the California State University System. Applicants for admission to graduate programs who have not fulfilled this requirement will be required to take the Writing Placement for Graduate Students (WPG) or take a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver. A student may be eligible for a WPG Waiver based on selected criteria (obtain a list of criteria and a WPG waiver from the Graduate Business Advising Center). Graduate students are required to meet this requirement **before** advancing to candidacy. No exceptions will be made to this policy.

Foundation Courses

The Foundation courses provide an academic background in the various disciplines of business. The MBA degree program is built upon this common background. Foundation courses should be taken after the student has attained the required entry proficiencies (prerequisites) and should be completed prior to taking program requirement courses. The Foundation courses are available through the Sacramento State College of Continuing Education.

A student who has a baccalaureate degree or a minor in Business Administration from an **AACSB-INTERNATIONAL** accredited university may have completed all or most of the Foundation requirements. However, the student will be required to take certain Foundation courses if she/he:

1. has not previously completed the comparable undergraduate course(s) for academic credit from an AACSB-INTERNATIONAL accredited institution or from a high quality program that has a 'national or international reputation';
2. has earned less than an overall 3.0 ('B') grade point average (GPA) in the comparable undergraduate courses presented for waiver of required courses;
3. has received a 'C' or lower grade in the comparable undergraduate course;
4. cannot demonstrate currency in these courses (7 year limit); or
5. has completed the bachelor's degree at a foreign institution.

Courses taken at **AACSB-INTERNATIONAL** accredited colleges of business will be accepted for transfer credit if the course is regarded as equivalent to the course for which credit is requested. Business Foundation courses and Core courses will not be accepted for transfer credit from programs that are not **AACSB-INTERNATIONAL** accredited unless taken at institutions that have national or international reputations of high quality programs.

Please contact the Graduate Business Advising Center (GBAC) Tahoe Hall 1037 to request petitions for equivalency for graduate, non-articulated courses. The CBA Academic Standards Committee will evaluate whether the institutions satisfy the requirement of 'national or international reputations of high quality programs.' Subsequently, faculty in the appropriate department will make the final determination for course equivalency, e.g., content, method of instruction, method of evaluating students, and/or course duration. To find out if your university is AACSB accredited go to www.AACSB.edu (http://www.aacsb.edu/).

Pre-Master students who are registered in the last two Foundation courses must file an Application for Classification with the Graduate Business Advising Center (GBAC) Tahoe Hall 1037, to be able to enroll in the courses designated as Program Requirements. The student's academic status will be reviewed to assure that he/she meets the necessary criteria to be accepted as a classified graduate student.

A GPA of at least 3.0 ('B') is required in all Foundation courses taken at Sacramento State, and program requirement courses presented for the degree.

Foundation Courses (0-11 units)

The foundation courses are available through the College of Continuing Education after acceptance into one of the CBA Graduate Programs.

Note: To be completed after the student has demonstrated the required entry proficiencies and must be completed prior to taking Program Requirements in any of the Master's programs.

All of the Foundation Courses below are required for the MBA and the MSBA/MIS programs. MSBA/Taxation and MS/Accountancy programs only require the following:

Code	Title	Units
ECON 204	Business Economics	3
MBA 201	Accounting	2
MBA 203	Legal Environment of Management	2

Note: The EMBA program does not require Foundation coursework.

A graduate student may request a challenge for waiver of a College of Business Administration foundation or core course if it at least one of the following conditions is met:

- The student has taken an equivalent class elsewhere, subject to the GPA requirement in CBA academic policy. For core classes, the

equivalent class must be at the graduate level; for the foundation classes, the equivalent class can be taken at the undergraduate level.
- The student has achieved appropriate professional or academic qualification.
- The student has appropriate professional work experience.

It is the responsibility of a student to provide sufficient documentation to support a waiver challenge application.

Code	Title	Units
ECON 204	Business Economics	3
MBA 201	Accounting	2
MBA 202	Business Communication [1]	2
MBA 203	Legal Environment of Management	2
MBA 206	Managerial Statistics Analysis	2

[1] This requirement will be waived for students who achieve a score of 4.5 or higher on the Analytical Writing Assessment (AWA) section of the GMAT exam.

Minimum Units and Grade Requirement for the Degree

Units required for MBA: 36 (excluding foundation courses)
Minimum Cumulative GPA: 3.0. The minimum acceptable grade for any graduate business course is "C." No more than two (2) courses with a grade of "C" will be counted for satisfaction of graduate program requirements.

Advancement to Candidacy

A student's program requirements are governed by the catalog in effect at the time one is accepted into and begins graduate school or by the catalog in effect at the time advancement to candidacy is approved.

Prior to enrolling in Culminating Requirements, a student must advance to candidacy. Initiation of advancement procedures is the responsibility of the student. The application to advance must be filed no later than the semester prior to enrollment in culminating experience requirement.

Eligibility to advance to candidacy requires satisfactory scholastic achievement, presentation of a plan of graduate study, and demonstration of writing proficiency. A classified graduate student in Business Administration may apply to the Graduate Business Advising Center (GBAC) for advancement to candidacy for the Master's degree after s/he has completed at least 12 units of the program requirements beyond the Foundation requirements. Students with a GPA deficiency or who have not fulfilled the Writing Placement for Graduate Students Requirement (WPG) cannot advance to candidacy.

Program Requirements

Code	Title	Units
Required Core Courses (21 Units)		
IMBA 210	Managerial Accounting	3
IMBA 211	Global Corporate Finance	3
IMBA 213	Marketing Management	3
IMBA 214	Statistical Decision Making	3
IMBA 215	Information Technology Management	3
IMBA 216	Human Resource Management in Intl Perspective	3
IMBA 217	Business Law and Legal Environment	3
Emphasis (12 Units)		
Select an emphasis from the following:		12
Finance		
IMBA 231	Global Financial Institutions and Markets	
IMBA 232	International Trade	
IMBA 233	International Investments	
IMBA 234	Contemporary Issues in International Finance	
International Management		
IMBA 241	Comparative International Management	
IMBA 242	Multinational Corporate Management	
IMBA 243	Global Supply Chain Management	
IMBA 244	Project Management	
Informational Technology [1]		
IMBA 251	Information Technology Resource Management	
IMBA 252	Enterprise Information Technology Planning	
IMBA 253	Strategic Information Technology Planning	
IMBA 254	Information Technology Project Management	
IMBA 255	Information Technology Leadership	
Culminating Experience (3 Units)		
IMBA 500	Leadership and Change Management	3
Total Units		36

[1] **Four** of the courses will be selected for a particular location

College of Continuing Education

College Overview

The College of Continuing Education (CCE) extends the mission of Sacramento State by providing access to educational and professional programming that meets student and industry demands. CCE provides access to both credit and non-credit offerings where you can prepare for promotion, improve your language skills, enhance your professional skills or seek a new career path. Many offerings do not require formal admission to the University.

CCE is also one of the top professional development providers in the capital region, helping public and private organizations improve employee effectiveness to support organizational success. Courses are scheduled for adults and working professionals, and classes are taught by university faculty and industry experts who offer real-world experience using adult learning methodologies.

For more information about the College of Continuing Education, please click here (http://www.cce.csus.edu) or call (916) 278-4433.

Professional Development Programs

CCE offers a wide variety of courses and certificate programs specifically designed for working professionals. Our programs feature quality curriculum that combines practice and theory, expert instructors with extensive industry experience, affordable fees to fit individual or organizational budgets, networking opportunities with business professionals, and convenient class schedules to accommodate work and family. Program areas include business operations, leadership and management, workforce development, public safety and more.

Degree and Credential Programs

On behalf of academic departments, CCE administers several degree completion and credential programs in convenient formats. CCE offers degree completion programs in multiple areas, such as early childhood development, criminal justice, communication sciences and disorders,

and nursing. Visit The College of Continuing Education Website (http://www.cce.csus.edu) for the most current offerings.

Conference and Training Services

CCE's Conference and Training Services unit is recognized throughout California as a leader in the meeting and event planning industry. We excel at creating partnerships where government, education and private industry come together to address community, regional and statewide issues. CCE provides assistance with conferences, training academies, strategic planning and teambuilding, stakeholder engagement, regional and statewide meetings, trade shows and fairs. We offer a full range of services designed to anticipate and facilitate all aspects of a successful event.

Custom Training

CCE offers a wide variety of custom training solutions specifically designed to meet the needs of your organization. From an initial needs assessment through program planning and delivery, we work closely with you to ensure that program content and learning outcomes are aligned with your organization's objectives. Choose from our portfolio of existing programs or let us design a custom solution based on your organization's specific needs. Our programs can be delivered on campus or onsite at your location.

English Language Institute

The English Language Institute provides international learners with opportunities to obtain an excellent education while becoming familiar with people and cultures from around the world. Supported by an outstanding, safe, friendly campus that offers a variety of educational and recreational opportunities, students experience American culture and develop their English language and communication skills for professional and academic success.

Open University

Open University is ideal if you wish to explore the university environment, raise your GPA or update your professional skills. This program allows you to enroll in regular university classes without going through the formal admission process. Upon department approval, you may be admitted in Open University courses on a space-available basis. Some courses may require prerequisites.

Special Sessions

Summer and Winter Sessions enable Sacramento State and visiting students to meet or accelerate degree requirements, pursue an area of interest, or reduce class load for the fall and spring semesters. Learn more at The College of Continuing Education Website (http://www.cce.csus.edu).

College of Education

College Overview

As a comprehensive college, we collaborate with our professional communities in preparing educators, leaders, and Deaf service providers to serve as agents of positive social change. We give access to professional careers for students with diverse identities and backgrounds, and contribute to their personal growth. We provide informed advice and applied research services to the local educational community.

Please review our website for up-to date information about our programs and services

Graduate and Professional Studies in Education

College of Education - Graduate and Professional Studies in Education (https://www.csus.edu/college/education/masters-programs/)

Programs

1. Certificate of Competency - Educational Technology (http://catalog.csus.edu/colleges/education/graduate-professional-studies-education/certificate-of-competency-in-educational-technology/)
2. Certificate of Competency - Mathematics Education (p. 420)
3. Certificate of Competency - Reading (p. 420)
4. Certificate of Competency - Teaching Reading to Adults (p. 420)
5. Preliminary Administrative Services Credential (p. 445)
6. Preliminary Administrative Services Internship Credential (p. 446)
7. Pupil Personnel Services School Counseling Credential (p. 446)
8. Pupil Personnel Services School Counseling Internship Credential (p. 447)
9. Pupil Personnel Services School Psychology Endorsement Credential (p. 447)
10. Reading/Language Arts Specialist Credential (p. 448)
11. MA in Education (Behavioral Sciences Gender Equity Studies) (p. 425)
12. MA in Education (Curriculum and Instruction) (p. 426)
13. MA in Education (Educational Leadership) (p. 428)
14. MA in Education (Educational Technology) (p. 429)
15. MA in Education (Higher Education Leadership) (p. 431)
16. MA in Education (Language and Literacy) (p. 432)
17. MA in Education (Multicultural Education) (p. 434)
18. MA in Education (School Psychology) (p. 435)
19. MA in Education (Workforce Development Advocacy) (p. 437)
20. MS in Counseling (p. 443)
21. Ed.S. in School Psychology (p. 423)
22. Doctorate in Education (Ed.D.) (p. 421)

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Contact Information

Dr. Carlos Nevarez (nevarezc@csus.edu), Chair, Graduate and Professional Studies

Eureka Hall 401
(916) 278-5557
Graduate and Professional Studies in Education Website (https://www.csus.edu/college/education/masters-programs/)

Dr. (edd@csus.edu)Julian Vasquez Heilig (edd@csus.edu), Program Director, Ed.D.
Tina Weekley (tina.weekley@csus.edu), Assistant to the Ed.D. Program Director
Eureka Hall 318
(916) 278-2282
Doctorate Program Website (https://www.csus.edu/college/education/doctorate-educational-leadership/)

Faculty

ADAMSON, FRANK

BASS de MARTINEZ, BERNICE

BOOSALIS, CHRIS

BROCK, STEPHEN

CHAVEZ, JOSE

CHRISTY, DANIELLE

COWAN, GENI

FRAYSER, MARK

GRAHAM-JOUGANATOS, SARAH

HEILIG, JULIAN VASQUEZ

HOLLAND, MELISSA

JOO, HyunGyung

KOCH, TODD

LEITNER, RONA

LILES-LOURICK, ELISABETH

LILLY, FRANK

LOZANO, ALBERT S.

MAHR, MICHELE

MARSHALL, RACHAEL

MORENO, JESSICA

NEVAREZ, CARLOS

O'MALLEY, MEAGAN

ORTIZ, ARLENE

PARK, SANGMIN

RIVAS, BITA

ROMERO, LISA

SCARTON, CARLY

SIDORKIN, ALEXANDER 'SASHA'

SULLIVAN, MARILEE

TURNER, BARRY

WILLIAM, LISA

WILLIAMS, EBONY

WONG, PIA L.

WYCOFF, SUSAN E.

CHDV 23. Assessment and Observation in Child Development. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or equivalent
Purposes of and methodological issues involved in assessing and observing early child development and learning in educational and developmental settings. Topics include selection of appropriate observation methods, survey of standardized measures, ethics, and interpretation and implications of assessment data for teaching and learning. Focus will be on becoming objective and unbiased observers, use of both informal and formal assessment tools, and principles of observational assessment research. Students will be required to complete up to 10 hours of observation outside of class. APA style will be introduced to support the development of practical and scholarly communication and writing.

CHDV 30. Human Development. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Interdisciplinary study of human development with practical observations. Addresses physical, socio-cultural, intellectual and emotional aspects of growth and development from conception to death. A variety of field experiences will be required.

CHDV 31. Adult Supervision and Mentoring In Early Childhood Programs. 2 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.
Term Typically Offered: Spring only

Study of research and exemplary practices in the supervision of early childhood teachers, other program staff, parents and volunteers. Content emphasizes adult learning.

CHDV 32. Administration and Supervision of Early Childhood Programs. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.
Term Typically Offered: Fall only

Basic issues, procedures and practices in the administration and supervision of public and private schools. Requires administrative supervisory fieldwork in an early childhood program.

CHDV 35. Child and Adolescent Development. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Examination of theory and research on cognitive, social and physical human development from conception through adolescence. Content will include data-collection techniques such as observation. Some course material will be applied to an analysis of elementary schooling.

CHDV 35F. Human Development and Elementary Field Experience. 2 Units

Corequisite(s): CHDV 35 may be taken concurrently.
Term Typically Offered: Fall, Spring

Directed field experiences in elementary school settings. Students are required to work at an elementary school and attend an on campus seminar. Includes the integration of student field experiences with theory and research in Human Development. Issues in learning, social development, adult career selection and schooling will be explored.
Note: Fieldwork includes 40 hours of service-learning at approved sites that are primarily off campus; students must complete clearance process (fingerprinting, TB tests) prior to placement.

Credit/No Credit

CHDV 44. Community Service Learning in Developmental and Educational Settings. 1 - 3 Units
Term Typically Offered: Fall, Spring

Designed to provide a range of service learning experiences where students apply their academic knowledge and skills in community-based settings. The community-based experiences will be combined with classroom activities designed to develop student understanding of topics related to their service activities such as tutoring reading and math, mentoring students from disadvantaged backgrounds, working with special populations of children.
Note: May be taken up to four times for credit (maximum 12 units of credit).

Credit/No Credit

CHDV 123. Qualitative Methods in Human Development. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or equivalent
Term Typically Offered: Fall, Spring

Introduction to qualitative research methods and their philosophical underpinnings. The focus will be on theoretical, methodological, and ethical issues in studying human learning and developmental processes from interpretive and social constructivist perspectives. Attention given to methodological strategies used to document and analyze learning and development in context. Strategies include participant-observation field notes, interviews, audio/video recordings, documents, and artifacts, with implications for theory, policy, and practice. APA style will be introduced to support the development of scholarly communication and writing.
Note: For CHDV majors, must be taken prior to completion of 90 units; completion of 45 total units credit.

CHDV 128. Combined Research Methods in Human Development. 3 Units

Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.
Term Typically Offered: Fall, Spring, Summer

Introduction to qualitative and quantitative research methods and their philosophical underpinnings. Consider theoretical, methodological, and ethical issues in studying learning and developmental processes from interpretive and social constructivist perspectives. Think critically about the generation of research questions and hypotheses and design and conduct of research inquiry, with implications for theory, policy, and practice. Students learn to locate, understand, critique, conduct, and report research findings from multiple approaches and be introduced to APA style writing as a tool for scholarly communication.

CHDV 130. Parent Education. 3 Units
Term Typically Offered: Fall, Spring

Ways parent education may be conducted in Child Development programs to meet legislated requirements as well as parent needs. Attention will be given to parent education programs which serve children of different ages, diverse language and cultural backgrounds, and children with special needs. The rights and responsibilities of children, parents and teachers will be discussed. Discussion and participation in such classroom activities as panels, presentations, demonstrations and cooperative learning assignments.

CHDV 131. Language Development. 3 Units
Prerequisite(s): CHDV 133. CHDV 133 may be taken concurrently.
Term Typically Offered: Fall, Spring

Investigation of the development of language and its relationship to school learning, cognitive development and social development. Both linguistic and communication competence are included. Specific attention to second language acquisition and principles underlying effective instruction in linguistically diverse children.
Note: Topic areas will vary by semester, and the course may be repeated.

CHDV 132. Fieldwork in Child Development. 3 Units
Prerequisite(s): CHDV 123
Term Typically Offered: Fall, Spring

Directed field experiences in settings selected to meet students' experience and needs. Students are required to work at the selected setting and attend an on-campus seminar to explore developmental content and issues. Discussion will also focus on attention to professional development and ethics in community and educational settings working with children and families.
Note: Fieldwork includes 40 hours of service-learning at approved sites that are primarily off campus; students must complete clearance process (fingerprinting, TB tests) prior to placement; may be taken as a core requirement and repeated as an elective.

CHDV 133. Quantitative Methods in Human Development. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or equivalent
Term Typically Offered: Fall, Spring

Introduction to quantitative research methods in human development and their philosophical underpinnings. Major topics include the structures, design and conduct of research inquiry, and the generation of research questions and hypotheses, and collection of data. Emphasis will also be on engaging in quantitative research as well as increasing students' ability to locate, understand, critique, and report research findings. Students will be challenged to think critically about methodological issues in quantitative research. AP A style will be introduced to support the development of scholarly communication and writing.
Note: For CHDV majors, must be taken prior to completion of 90 units; completion of 45 total units credit.

CHDV 134. Development of Young Children as Mathematical and Scientific Thinkers. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.
Term Typically Offered: Summer only

Theory, research, and practice in development of the child's thinking about mathematical and scientific concepts. Topics will include: (a) early emergence of conceptual reasoning connected with mathematics and science, (b) symbolic development and language of mathematics and science, (c) developmental sequences in mathematical and scientific thinking, (d) California Preschool Learning Foundations; (e) age-appropriate and culturally-relevant experiences to promote mathematic and scientific reasoning. Activities include lecture, discussions, presentations, cooperative learning assignments, and integration of course content with early childhood classroom practice.

CHDV 135. Crosscultural Child Development. 3 Units
Prerequisite(s): CHDV 133. CHDV 133 may be taken concurrently.
Term Typically Offered: Fall, Spring

Examination of the physical, socio-emotional and cognitive development in children from a crosscultural orientation. Will investigate cultural variables that influence child development from both inter- and intranational perspectives. Discussion of culturally universal and culturally specific behaviors, cognitions and experiences will be covered.

CHDV 136. Developmental Experiences, Methods and Curriculum. 3 Units
Prerequisite(s): CHDV 123. CHDV 123 may be taken concurrently.
Term Typically Offered: Fall, Spring

Examination of theory, research, and exemplary practices and programs for children through elementary school. Activities include discussions, presentations, demonstrations and cooperative learning assignments.

CHDV 137. Cognitive Development. 3 Units
Prerequisite(s): CHDV 133.
Corequisite(s): CHDV 137L.
Term Typically Offered: Fall, Spring

Cognitive development of children from conception through adolescence with consideration of biological and environmental influences. Lectures, discussions and participation in such classroom activities as presentations, demonstrations and cooperative learning assignments.
Note: Student must co-enroll in the corresponding section of CHDV 137L.

CHDV 137L. Cognitive Development Research Laboratory. 1 Unit
Prerequisite(s): CHDV 133.
Corequisite(s): CHDV 137.
Term Typically Offered: Fall, Spring

Laboratory course to complement CHDV 137. Emphasis placed on the observation, interaction, documentation, and using a scientific approach to learn about cognitive development. Classroom, field, and research experiences supporting the study of cognitive development.
Note: Student must co-enroll in the corresponding section of CHDV 137.

CHDV 138. Social and Emotional Development. 3 Units
Prerequisite(s): CHDV 133.
Corequisite(s): CHDV 138L.
Term Typically Offered: Fall, Spring

Study of the social and emotional development of children from conception through adolescence with consideration of biological and environmental influences. Lectures, discussions and participation in such classroom activities as presentations, demonstrations and cooperative learning assignments.
Note: Student must co-enroll in the corresponding section of CHDV 138L.

CHDV 138L. Social and Emotional Development Laboratory. 1 Unit
Prerequisite(s): CHDV 133.
Corequisite(s): CHDV 138.
Term Typically Offered: Fall, Spring

Laboratory course to complement CHDV 138. Emphasis placed on the nature of observation, interaction, and using a scientific approach to learn about social and emotional development. Classroom and field experiences related to the study of social and emotional development.
Note: Student must co-enroll in the corresponding section of CHDV 138.

CHDV 139. Educational Play: Theory and Practice. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent
Term Typically Offered: Summer only

Use of play as an educational vehicle in early childhood. Discovering how play helps children develop physically, socially, emotionally, cognitively and creatively through a variety of playful modes. Constructing appropriate developmental play materials and activities with emphasis on the active role of the adult in child's play. Activities include discussions, presentations, demonstrations and cooperative learning assignments.

CHDV 140. Coordination of Early Childhood Programs. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent
Term Typically Offered: Fall, Spring

Advanced methodology of coordinating early childhood programs, to include organization, staff development and community relations. Includes the functions of parents, aides, volunteers and varied early childhood organizational patterns.

CHDV 141. History of Childhood: International and Interdisciplinary Perspectives. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examination of what it means to be a child in today's world by comparing social constructions of childhood across the broad historical periods and in contrasting parts of the world. Exploration of cultural beliefs, values and practices of childhood in different historical, social, and economic contexts. Comparative approach provides a critical framework from which to analyze scholarly inquiry about how children develop in families, schools, and broader society. Course content will interest students from a broad array of majors.

CHDV 143. Mind and Brain in Developmental Context. 3 Units
Prerequisite(s): CHDV 30 or 35; Introductory Biology.
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring, Summer

Investigation of the biological processes underlying child development, from conception through adolescence. Emphasis will be on the genetic, neurological, and endocrine processes related to cognition, social, and emotional development. Students will explore the bidirectional nature of psychobiological processes, with specific emphasis on the psychobiological mechanisms underlying the transaction between cultural, educational, and social-emotional related to educational, and mental and physical health functioning.

CHDV 144. Community Service Learning in Developmental and Educational Settings. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Designed to provide a range of service learning experiences where students apply their academic knowledge and skills in community-based settings. The community-based experiences will be combined with classroom activities designed to develop student understanding of topics related to their service activities such as tutoring reading and math, mentoring students from disadvantaged backgrounds, working with special populations of children.
Note: May be taken up to four times for credit (maximum 12 units of credit).

Credit/No Credit

CHDV 145. Controversial Issues in Childhood Development, Education, and Social Policy. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Discussion-based examination of controversial issues linking development, education, and cultural practice in which scholarly inquiry has substantial implications for social policy. Specific topics vary by semester and include topics of both historical relevance and contemporary debates. Content relevant to multiple disciplines including issues such as adolescent risk behavior, bilingual education, brain-base pedagogy, child care, children and the law, cultural diversity, developmental theory and educational practice, gender, literacy practices, motivation, parenting styles, school violence, special education, standardized testing, and technological change.

CHDV 150A. Early Literacy Development in First and Second Language. 2 Units
Prerequisite(s): CHDV 123 or CHDV 133. CHDV 123 or CHDV 133 may be taken concurrently.
Corequisite(s): CHDV 150B.
Term Typically Offered: Summer only

Students will become familiar with language and emergent litercy of young children from birth to eight. An overview of research-based developmental progression will be emphasized as it relates to the learning foundations for language and literacy. Other focal points will be home-school connections and cultural influences on literary development. Assessment topics, including observation and other developmental strategies will be intergrated. An emphasis on increasing students' ability to connect theoretical understanding to the practice offered in CHDV 150B.

CHDV 150B. Early Literacy Development in First and Second Language Practicum. 1 Unit
Prerequisite(s): CHDV 123 or CHDV 133. CHDV 123 or CHDV 133 may be taken concurrently.
Corequisite(s): CHDV 150B.
Term Typically Offered: Summer only

The practicum experience (20 hours) will provide students with the application of course content material learned in CHDV 150A. Students will observe and validate multiple experiences in which first and second language learners learn language and literacy succesfully. Factors affecting language and literacy development will be addressed.
Credit/No Credit

CHDV 153. Apprenticeship in Advanced Child Development. 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Faculty mentors will meet with graduate and undergraduate apprentices individually or in small groups for guided discussions of assigned readings and/or research data analysis/collection endeavors.
Prerequisite: Instructor permission.
Note: Readings will depend on the specific mentor's research or scholarly interest; May be repeated up to four times for 12 units of credit, with a limit of 6 units applied towards the CHDV major requirements.

CHDV 154. Issues in Parenting. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or FACS 52.
Term Typically Offered: Fall, Spring, Summer

Survey of historical and contemporary attitudes toward parenting. Review of research on child-rearing and parent-child relationships. Use of case studies to explore the influence of personality, developmental stage, family structure, ethnic and cultural factors on parenting. Lecture, Case Study.
Cross-listed: FACS 154; only one may be counted for credit.

CHDV 157. Infant and Toddler: Development and Care. 3 Units
Prerequisite(s): One of the following: CHDV 30 or CHDV 35, FACS 50, PSYC 148, or SWRK 125A.
Term Typically Offered: Fall, Spring

Research theory and practice are examined in relation to each area of infant and toddler development (conception through 24 months): Physical, social, emotional, cognitive, and perceptual. Individual differences and needs are stressed. Issues pertinent to individual and group care will be covered. Activities include lecture, discussion, and observations.
Cross Listed: FACS 157; only one may be counted for credit.

CHDV 194. Cooperative Education Experience. 3 Units
Prerequisite(s): Completion of 60 units total credit and instructor permission. May be taken four times for a maximum of 12 units credit.
Term Typically Offered: Fall, Spring

Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in the student's major field of study and academic credit. Students receive supervised employment in school districts, state and community agencies, companies and other appropriate settings. Requires regular meetings with faculty supervisor, completion of field study assignment, evaluation by field-based supervisor, and a written final report.
Credit/No Credit

CHDV 196A. Approaches to Research Methods in Child Development A. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent; completion of 45 total units; Must be taken prior to completion of 90 units.
Term Typically Offered: Fall, Spring

This course examines methodological issues involved in assessment, observation, analysis, and design in the field of child development. Topics include the research process. APA style writing, ethics, design and methods, use assessment tools, qualitative and quantitative data analysis and interpretation. The focus will be on becoming critical consumers of research and developing the skills of scientific injury.
Note: First course in a series. 196B must be taken in the semester immediately following completion of CHDV 196A.

CHDV 196B. Approaches to Research Methods in Child Development B. 3 Units
Prerequisite(s): CHDV 196A.
Term Typically Offered: Fall, Spring

Two semester sequence of instruction that examines methodological issues involved in assessment, observation, research design, and analytical concepts involved in the field of child and adolescent development. Topics include the research process, APA style writing, ethics, design and methods, use assessment tools, qualitative and quantitative data analysis and interpretation. The focus will be on becoming critical consumers of research and developing the skills for scientific inquiry.
Note: Must be taken prior to 90 units.

CHDV 196U. Child and Adolescent Development in Context. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 (or equivalent).
Term Typically Offered: Fall, Spring

Investigation of the dynamic nature of child and adolescent development in the context of families, schools, and community. Students will gain an understanding of how issues in these contexts influence development and explore the dynamic relationships between contexts in promoting development. Attention will be paid to socioeconomic status as a context as well as the role of gender, race and ethnicity within contexts as they relate to development. Students will examine practices that strengthen collaboration between families, schools and community.

CHDV 196X. Guided Human Development Experience Around the World. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35, and 2.75 GPA, or instructor permission. Field trip.
Term Typically Offered: Summer only

Course provides a range of guided learning experiences outside the United States, allowing students to experience human development more broadly to promote a global perspective. Experiences include, but are not limited to, observation, fieldwork, data gathering, or other modes of interaction with the people and culture in the country. Students will reflect on experiences in writing and in discussion in light of readings on developmental theory and research.
Note: Course is credit/no credit. It may be taken twice with different instructors.

Credit/No Credit

CHDV 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects designed especially for students capable of independent study. Admission by written approval of the instructor and Department Chair.
Credit/No Credit

CHDV 200. Proseminar in Child Development. 3 Units
Prerequisite(s): Admission to MA Child Development program or instructor permission.
Term Typically Offered: Fall only

Orientation to advanced scholarship in human development with a focus on understanding and evaluating current directions in developmental research. Developmental research methods and analytical strategies will be explored.

CHDV 210. Seminar in Social Development. 3 Units
Term Typically Offered: Fall, Spring

Advanced seminar focusing on theoretical and empirical readings covering topics in social/emotional development. Potential topics may include social and emotional development of children from conception through adolescence with consideration of biological and environmental influences.

CHDV 211. Seminar in Cognitive Development. 3 Units
Prerequisite(s): Admission to MA program or instructor permission.
Term Typically Offered: Fall, Spring

Advanced developmental seminar focusing on theoretical and empirical readings covering topics in cognitive development. Specific topics will be related to cognitive development of children from conception through adolescence with consideration of biological and environmental influences.

CHDV 242. Theoretical Approaches to Development. 3 Units
Prerequisite(s): CHDV 137 or CHDV 138. Graduate standing or instructor permission.
Term Typically Offered: Fall only

An in-depth examination of theoretical approaches to various domains of human development. Content includes current and historical developmental theory and application of theory to developmental research. Critical thinking skills and scholarly writing will be emphasized.
Note: Graduate Writing Intensive course

CHDV 244. Community Service Learning in Developmental and Educational Settings. 1 - 3 Units
Term Typically Offered: Fall, Spring

Designed to provide a range of service learning experiences where students apply their academic knowledge and skills in community-based settings. The community-based experiences will be combined with classroom activities designed to develop student understanding of topics related to their service activities such as tutoring reading and math, mentoring students from disadvantaged backgrounds, working with special populations of children.
Note: May be taken up to four times for credit (maximum 12 units of credit).

Credit/No Credit

CHDV 245. Selected Topics in Developmental Theory. 3 - 6 Units
Prerequisite(s): Admission to MA program or instructor permission.
Term Typically Offered: Fall, Spring

In-depth study of selected topics in human development. Topics vary with each offering. Content includes theory and research on psychological dimensions of human development in various educational and community settings. May be repeated once for credit with different instructor.
Note: May be repeated twice as long as topics and instructors differ.

CHDV 246. Motivation and Learning in Children. 3 Units
Prerequisite(s): Graduate standing, or instructor permission.
Term Typically Offered: Fall, Spring

Sources of and developmental changes in motivation, including biological predispositions, critical life events, individual differences, and social, cultural and educational experiences will be examined. Students will participate in a group research effort on motivation and educational practice.

CHDV 247. Theoretical and Applied Perspectives on Cross-cultural Development. 3 Units
Prerequisite(s): CHDV 200 or instructor permission. CHDV 200 may be taken concurrently.
Term Typically Offered: Fall, Spring

The cultural basis of human development through an in-depth examination of the socio-emotional, cognitive, language and gender development of children from infancy through adolescence within and across different cultures and communities. Theory, methods, and research of cross-cultural investigations will be considered and applications of course material to educational and community settings will be explored and analyzed.

CHDV 248. Curriculum and Instruction. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Spring

Advanced study of the sociocultural influences on curriculum development. Research, theory, and curricular practices will be analyzed, evaluated and applied to a variety of preschool and primary grade settings.

CHDV 249. Language Processes in Development. 3 Units
Prerequisite(s): Admission to MA program or instructor permission.
Term Typically Offered: Fall, Spring

Language is an important cognitive and communicative tool that promotes learning. Through an integrative approach to language and cognitive development, students will examine how children learn through language. Students will have practical experience in collecting and analyzing children's language learning in educational settings.

CHDV 250. Quantitative Research Methods. 3 Units
Prerequisite(s): CHDV 133; admission to the MA program or instructor permission.
Term Typically Offered: Fall, Spring

Critical analysis of quantitative research methods used in the study of development. Core issues in studying development will be discussed as they relate to families and societal issues. Major topics include the philosophical underpinnings of research design, various research methods of inquiry, ethical issues, and the development of research questions and data collection. Critical thinking and writing skills will be emphasized.

CHDV 253. Apprenticeship in Advanced Child Development. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Faculty mentors will meet with graduate and undergraduate apprentices individually or in small groups for guided discussions of assigned readings and/or research data analysis/collection endeavors.
Note: Readings will depend on the specific mentor's research or scholarly interest; May be repeated up to 4 times for credit.

CHDV 258. Qualitative Research Methods. 3 Units
Term Typically Offered: Fall, Spring

Introduction to qualitative research methods for the study of learning and development. Includes: a) discussions of theoretical perspectives underlying this methodological approach; b) techniques for and issues in gathering, analyzing, and recording qualitative data; and c) strategies for using and reporting qualitative data. Students will write initial thesis/project design and human subjects proposal for formal approval.

CHDV 290. Seminar for Culminating Experience. 3 Units
Prerequisite(s): Advancement to candidacy; completion of at least 20 units of course work towards the MA, instructor permission.
Term Typically Offered: Fall, Spring

Seminar to focus on topics/elements/expectations to be included in the culminating experience: defining and narrowing a topic for study; abstract writing; differentiation of primary/secondary source of evidence; development of organizational schemes for a literature review; database literature searches; APA format requirements; time management, range and breadth of evidence for a comprehensive review; connecting the review and project/thesis; writing style and quality; revisions and critical feedback; social/psychological dimensions of thesis/project process; data analysis and statistics help on campus for thesis.
Credit/No Credit

CHDV 292. Culminating Seminar for Exam Option. 3 Units
Prerequisite(s): Completion of all foundation course requirements for MA program (CHDV 200A, CHDV 200B, CHDV 242, CHDV 247, CHDV 250) advancement to candidacy, or instructor permission.
Term Typically Offered: Fall, Spring

Seminar to focus on topics/elements/expectations for the exam option culminating experience: test preparation and tips, exam writing, practice exam questions, time management, and community building with other students. Students will complete reading and writing assignments related to each exam area and prepare for an exam question related to an approved elective topic of their choice. Students will submit an exam petition to be reviewed and approved by the departmental exam committee.
Credit/No Credit

CHDV 295. Practicum in Child Development. 1 - 3 Units
Prerequisite(s): Graduate standing, or instructor permission.
Term Typically Offered: Fall, Spring

Directed field based experience in preschool, elementary or other community based settings serving children from infancy through adolescence and their families. Designed to provide students the opportunity to develop professional skills and understandings in applied settings or explore career development opportunities with particular emphasis on leadership or administrative skills and knowledge.
Note: Students are required to work at an instructor-approved field site consistent with their career goals and interests and attend an on campus seminar.

CHDV 299. Special Problems. 1 - 3 Units
Prerequisite(s): Open only to upper division and graduate students with consent of faculty advisor and Department Chair.
Term Typically Offered: Fall, Spring

Individual projects at graduate level designed especially for students capable of independent study. Departmental petition, signed by instructor with whom student will be working and department chair, required.
Credit/No Credit

CHDV 504. Culminating Experience in Child Development: Thesis or Project. 3 Units
Prerequisite(s): Admission to MA, Child Development program or instructor permission.
Term Typically Offered: Fall, Spring

Guidance toward completion of thesis or project option for the MA, Child Development program. Credit is given upon successful completion of a thesis, project, or other approved culminating experience. Open only to the graduate student who has been advanced to candidacy for the Master's degree and has secured the permission of his/her faculty advisor and the Department Chair one full semester prior to registration.

CHDV 505. Culminating Experience in Child Development: Exam Option. 3 Units
Prerequisite(s): Admission to and completion of all course requirements for the MA, Child Development program, CHDV 292 or instructor permission.
Term Typically Offered: Fall, Spring

Guidance in ongoing preparation for the examination option for the MA, Child Development program. Credit is given upon successful completion of the examination option for the culminating experience. Open only to the graduate student who has completed all other course requirements, has been advanced to candidacy for the Master's degree, and has secured the permission of the Department Chair one full semester prior to registration.
Credit/No Credit

EDC 210. Multicultural/Ethnic Counseling. 3 Units
Term Typically Offered: Fall, Spring

Exploration of ethnic and cultural differences to develop or expand awareness, techniques, skills, theories, concepts, and to acquire information necessary to counsel effectively with clients of various ethnic/cultural groups. Students examine their own attitudes, behaviors, perceptions, and biases, and are encouraged to develop their own multicultural approach to counseling. Lecture/discussion three hours.

EDC 212. Gender Roles in Counseling. 3 Units
Term Typically Offered: Fall, Spring

An overview of the individual and societal parameters of gender roles and sexism in self-identity, sexual behavior, health, mental health, relationships, values, abuse, violence, etc. Attitudes, research, prevention, assessment and treatment methods are addressed. Meets Board of Behavioral Science requirements in human sexuality and domestic violence.

EDC 214. Dynamics of Human Development. 3 Units
Term Typically Offered: Fall, Spring

Overview of theories and research pertaining to the dynamics of human development, including cultural, biological, social, and psychological factors. Particular emphasis will be placed on the relationship of these factors to the field of counseling. Lecture three hours.

EDC 216. Counseling Theory. 3 Units
Corequisite(s): EDC 280.
Term Typically Offered: Fall, Spring

Examination of ten counseling philosophies, with emphasis on knowledge and practice. Requires the refinement of one's own counseling orientation. Designed to provide students with a foundation in the basic philosophy and practice of contemporary theories of counseling/psychotherapy. The requirements support three components of multiple measures of learning and outcomes: 1) personal growth, 2) counseling skills building utilizing multiple approaches, 3) professional development.

EDC 218. Assessment In Counseling. 3 Units
Term Typically Offered: Fall, Spring

Intended to acquaint the prospective counselor with an array of assessment instruments and appraisal techniques. Includes practical experience with tests as well as foundations of test development. Lecture three hours.

EDC 219. Group Processes in Counseling. 3 Units
Prerequisite(s): EDC 216 and EDC 280.
Term Typically Offered: Fall, Spring

Group process theory and procedures, including group counseling and guidance. Participation in a group experience is required. Lecture, discussion, three hours.
Note: May be repeated for credit.

EDC 220. The Spiritual Dimension in Counseling and Psychotherapy. 3 Units
Prerequisite(s): EDUC 155, EDUC 156, EDC 216, EDC 280; or instructor permission.
Term Typically Offered: Fall, Spring

Investigation into concerns and issues, modes, and methodologies surrounding exploration of the spiritual dimension in the counseling/therapy relationship. Experiential activities are included.

EDC 222. Clinical Stress Reduction. 3 Units
Term Typically Offered: Fall, Spring

Major concepts, theories, and approaches to effective stress reduction. Includes stress level assessment, planning and implementation of a stress reduction program. Practice of beneficial stress reduction techniques and application in clinical practice.
Note: Open to unclassified students with instructor permission.

EDC 230. Law and Ethics for Marriage, Family, and Child Counseling. 3 Units
Prerequisite(s): EDUC 155, EDUC 156, EDC 216, EDC 280 or instructor permission.
Term Typically Offered: Fall, Spring

Legal and ethical considerations in the practice of marriage, family, and child counseling. Current laws, responsibilities, restrictions, rights and privileges, licensing regulations, and ethical standards of major professional groups. Child abuse assessment and reporting requirements. Organization, administration, and management of independent practice. Lecture three hours.

EDC 231. Diagnosis and Treatment Planning. 3 Units
Prerequisite(s): EDC 216, EDC 218, EDC 280; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring

Advanced discussion of psychopathology with emphasis on differential diagnosis, use of DSM IV, and development of treatment plans. Use of mental status exam and structured interview schedules. Major diagnostic categories covered include schizophrenia, mood disorders, anxiety disorders, and personality disorders. Completion of case reports and understanding of clinical materials using diagnosis and treatment plans will be emphasized from a diversity perspective. Lecture three hours.

EDC 232. Family Violence. 3 Units
Prerequisite(s): EDC 212, EDC 230, EDC 234; or instructor permission.
Term Typically Offered: Fall, Spring

Violence in the family includes spouse abuse, child abuse, incest, and sexual abuse. Myths about these areas will be replaced by empirically-based facts. There will be an emphasis on effective treatment methods; research findings on family violence, including etiology and family patterns; overlap with alcohol and other drugs, and maintenance factors. Students will gain techniques and skills in interviewing, assessment, and counseling when violence is a presenting issue.

EDC 233. Substance Abuse and Addiction. 3 Units
Prerequisite(s): EDC 231.
Term Typically Offered: Fall, Spring

Provides an overview of substance abuse, addiction and co-occuring disorders with emphasis on psychoactive drugs including alcohol. Material will focus on the following areas: identification, evaluation, treatment and prevention of substance abuse and addiction, family, friends and coworker issues, legal and medical aspects of substance abuse, populations at risk, the role of support persons, support systems, and community resources.

EDC 234. Seminar: Marriage and Family Counseling. 3 Units
Prerequisite(s): EDC 214, EDC 216, EDC 280; classified student in the Counselor Education Program.
Corequisite(s): For MFCC Specialization: EDC 476.
Term Typically Offered: Fall, Spring

Introduction to the basic concepts and principles of family therapy. Provides and lays the foundation on which all theories/schools of family therapy are based and covers the basic theories of family therapy. Issues include evaluation of families, diagnosis in a family context, interviewing strategies, redefining problems in a family systems context, and treatment principles. Lecture three hours.
Note: May substitute PSYC 225 with consent of faculty advisor prior to registration.

EDC 238. Professional Issues in Marriage Couple and Family Counseling. 2 Units
Prerequisite(s): EDC 210, EDC 216, EDC 234, EDC 280 and acceptance into the Counselor Education Program.
Term Typically Offered: Fall, Spring

This course will provide MCFC students an advanced overview of current evidence-based practices, intervention techniques, and treatment strategies for diverse populations. This class will challenge students to conceptualize through diverse therapeutic lenses. Students will develop a deeper understanding of MFT theory and how to apply theory to practice. Topics may include domestic violence, death and dying, chemical dependency, patients with HIV or AIDS, relational trauma, the foster care system, infidelity in marriage and couples counseling, and caring for caregivers.

EDC 239. Foundations in Rehabilitation Counseling. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the field of rehabilitation counseling. Students will learn about the foundations of rehabilitation counseling through lecture, discussion, observations of community facilities, and classroom activities. Students will spend 40 hours over the course of the semester volunteering with a rehabilitation agency. Field trip(s).
Note: Open to unclassified graduate students on a space available basis.

Field trip(s) may be required.

EDC 240A. Psychological, Social and Medical Aspects of Disability, A. 3 Units
Prerequisite(s): Approval as a candidate for the MS degree in Counseling.
Term Typically Offered: Fall, Spring

Psychological, social, and medical aspects of various congenital, hereditary, and trauma-induced disabilities are studied in-depth, particularly their relationship to vocational adjustment. The etiology, treatment, prognosis, and limitations caused by various disabling medical conditions are covered as well as such factors as depression, denial and dependency as they occur or are related to these disabling conditions. Emphasis is also given to the concepts of motivation, self-concept, and personal and societal attitudes toward disability.

EDC 240B. Psychological, Social and Medical Aspects of Disability, B. 3 Units
Term Typically Offered: Fall, Spring

This is a two-part course. Both EDC 240A and EDC 240B are required. EDC 240A is not a prerequisite for 240B.

EDC 241. Developmental Stages and Art Therapy Techniques. 3 Units
Prerequisite(s): EDUC 155 and EDUC 156.
Term Typically Offered: Fall, Spring

In-depth study of normal stages of development in art with special emphasis on the developmental stages as both diagnostic indicators and aids in devising art therapy treatment. Includes hands-on experience with a variety of art therapy techniques and discussion of their applicability to different client populations. Purchase of some basic art supplies is required. Lecture, discussion, three hours.

EDC 242. Play and Art in Therapy with Children. 3 Units
Prerequisite(s): EDC 216, EDC 280, classified student in the School Counseling Specialization. Other Counselor Education students may be permitted to enroll when space is available.
Term Typically Offered: Fall, Spring

Explores the ways children use fantasy, play, and art as means for communication, growth and healing. Emphasis is placed on clinical skills, therapeutic limit setting, counseling theory and developmentally appropriate interventions. Purchase of some basic art supplies is required.

EDC 244. Trauma and Crisis Counseling. 3 Units
Term Typically Offered: Fall, Spring

This course provides opportunities for both theory and skill development by examining crisis and trauma counseling, including crisis theory; multidisciplinary responses to crises, emergencies, or disasters; cognitive, affective, behavioral, and neurological effects associated with trauma; brief, intermediate and long-term approaches; assessment strategies for clients in crisis and principles of intervention for individuals with mental or emotional disorders during times of crisis, emergency, or disaster.

EDC 250. Education Research. 3 Units
Prerequisite(s): Graduate status.
Term Typically Offered: Fall, Spring

Studies qualitative and quantitative methods in the development of reliable knowledge in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies. Classified students are encouraged to take this course early in their graduate programs.

EDC 252. Legal and Ethical Issues in Professional Counseling. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide students with basic knowledge and skills necessary to be legally and ethically competent in practice of counseling. Examines ethical and legal considerations pursuant to practice of counseling. Topics to be covered are ethics (CAMFT, AAMFT, ACA, ASCA, NCDA) related to counseling practice in private and public sectors, as well as laws regarding mandatory child and elder abuse assessment and reporting, confidentiality, privilege, liability, marriage, family, child and school ethics and law. Required for graduation with a degree in Counseling.

EDC 254. Counseling and Psychotropic Medicine. 3 Units
Prerequisite(s): EDC 231
Term Typically Offered: Fall, Spring

Provides an introduction to psychopharmacology; the biological bases of behavior; basic classifications, indications, and contraindications of commonly prescribed psychopharmacological medications; and effective approaches to collaborating with clients, their families and other professionals so that appropriate referrals can be made for medication evaluations and so that the side effects of those medications can be identified. Meets the BBS licensure requirements for Professional Clinical Counselors and Marriage and Family Therapists.

EDC 260. Career Development. 3 Units
Term Typically Offered: Fall, Spring

Provides a basic introduction to career development and career counseling. Identification and assessment of issues common in career counseling settings are examined. Group and individual models of career development and counseling in schools, community agencies or private industry are also investigated and discussed. Lecture three hours.

EDC 261. Seminar in Counseling: Job Placement. 3 Units
Term Typically Offered: Fall, Spring

Analyzes and practice of job-seeking skills, employer information base, and job placement of the handicapped.

EDC 262. Career Counseling Process. 3 Units
Prerequisite(s): EDC 260; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring

On-going learning of the processes needed to deliver career counseling services to a variety of clientele. Students will extend their theoretical knowledge base and will more clearly focus on the relationship between a person's life and the process of career development. Elements to be studied in more depth include career development theory, assessment techniques and strategies, goal setting, decision making, and integration of multicultural aspects and strategies. A practical experience in administering and interpreting selected test instruments extensively used in career counseling will be included. Lecture three hours; practical experience one hour.

EDC 263. Case Practices in Rehabilitation Counseling. 3 Units
Prerequisite(s): Classification as a graduate student in the M.S. Counseling program or instructor approval.
Term Typically Offered: Fall, Spring

This course provides an in -depth review and study of the rehabilitation process. This course will address effective rehabilitation counseling interventions and documentation. This course is oriented to the methods used in obtaining relevant self-reported, measured, or demonstrated client information that will have direct impact on the individual¿s rehabilitation process. Students will formulate individual rehabilitation plans as a joint client-counselor process. Rehabilitation case records will be used to foster understanding of the client and their problems.

EDC 264. Seminar in Counseling: Career Systems Development. 3 Units
Prerequisite(s): EDC 260; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring

Specific emphasis is at the implementation level, with students learning the necessary skills for implementing, maintaining, and stimulating career development in schools, community agencies or private industry. Lecture three hours.

EDC 266. Seminar in Counseling: Career Program Development. 3 Units
Prerequisite(s): EDC 260; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring

Specific emphasis is at the program development level, with students learning the necessary components for developing a career counseling program in schools, community agencies, or private industry. Lecture three hours.

EDC 268. Career and Job Search. 3 Units
Prerequisite(s): EDC 260 or instructor permission.
Term Typically Offered: Fall, Spring

Work is undergoing change with the advent of new technologies, an increasingly diverse workforce, and corporate restructuring. These conditions have led to more frequent occupational shifts and the loss of previously secure jobs, self-reliance replacing loyalty in relations between employers and employees, and fragmented careers becoming more common as family responsibilities and work opportunities became increasingly interwoven. Examines traditional and emerging approaches for assisting clients in a changing and evolving job market.

EDC 270. Organization and Administration of School Counseling Programs. 3 Units
Term Typically Offered: Fall, Spring

Principles and practices necessary to plan, initiate, administer, and evaluate school counseling programs, including related laws. Lecture, discussion three hours.

EDC 272. Counseling Children and Youth. 3 Units
Prerequisite(s): EDC 216, EDC 280, classified student in Counselor Education Program. School specialization: EDC 242.
Corequisite(s): School Counseling Specialization: EDC 475.
Term Typically Offered: Fall, Spring

Provides students with a theoretical foundation and working knowledge of contemporary issues and interventions for children and youth. A variety of presenting problems and treatment strategies are explored.

EDC 274. Guidance and Consultation in School Counseling. 3 Units
Prerequisite(s): EDC 216, EDC 280, EDC 270; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring

Presents a variety of topics and strategies related to the school counselor's role in implementing guidance curricula in the school. Explores models of consultation, change strategies, human relations skills, and ethical considerations. Emphasis is on the developmental nature of school counseling programming, the need for school counseling to support the larger instructional mission of the school, the role of the counselor as a change agent and the multiplcity of skills needed for successful guidance and consultation.

EDC 280. Practicum in Communication. 2 Units
Corequisite(s): EDC 216
Term Typically Offered: Fall, Spring

Supervised practice in the basic styles of communication, verbal and nonverbal, with additional focus on the particular skills of selected theories.
Note: Recommended to be taken within the first 6 units of study in the Counselor Education Program

Credit/No Credit

EDC 282. Practicum in Group Counseling. 2 Units
Prerequisite(s): EDC 219; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring

Supervised practice in leadership of group counseling. Lecture one hour; laboratory three hours.
Credit/No Credit

EDC 294. Cooperative Education Experience. 3 Units
Prerequisite(s): Open only to upper division and graduate students; consent of Department Chair.
Term Typically Offered: Fall, Spring

Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in the student's major field of study and academic credit. Students receive supervised employment in school districts, state and community agencies, companies, and other appropriate settings. Requires attendance at weekly meetings, preparation of application packet, completion of field study assignment, and a written final report.
Note: Units may not be used to meet course work requirements. May be repeated once for credit.

Credit/No Credit

EDC 296P. Current Issues in Counseling: Meditation. 1 Unit
Term Typically Offered: Fall, Spring

An introductory experimental class in meditation which provides a basic foundation of basic meditative theories, the experience of meditative practices, and a basic knowledge of meditative techniques of benefit both personally and with clients. Research has demonstrated that meditation is helpful in a number of stress-related conditions and recent research indicates it is often more effective than psychotherapy in treatment of some problems.
Note: Instructor approval required. May be taken twice for credit.

Credit/No Credit

EDC 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects at graduate level designed especially for students capable of independent study.
Note: Admission by approval of the instructor with whom the student will be working directly and the Department Chair.

Credit/No Credit

EDC 475. Practicum In Counseling. 3 Units
Prerequisite(s): Prerequisites for all specializations: EDC 210, EDC 214, EDC 216, EDC 280. Additional prerequisites by specialization: Career - EDC 212+, EDC 218, EDC 219+, EDC 260, EDC 262+; Community - EDC 201, EDC 212+, EDC 218, EDC 219; MFCC - EDC 212, EDC 218+, EDC 219, EDC 234, EDC 252+, EDC 476; School - EDC 252+, EDC 270.
Corequisite(s): By specialization: School - EDC 272.
Term Typically Offered: Fall, Spring

Supervised counseling practice in agency and/or school settings. Emphasis on application of counseling theories and the integration of one's own counseling philosophy into practical applications. Basic requirements: 100 clock hours with at least 40 client contact hours, 1 hour per week of individual/triadic supervision, and one and half hours per week of group supervision.
Note: Department petition is required the semester prior to enrollment.

Credit/No Credit

EDC 476. Practicum in Marriage, Family and Child Counseling. 1 Unit
Prerequisite(s): EDC 216, EDC 280, classified student in the Counselor Education Program.
Corequisite(s): EDC 234.
Term Typically Offered: Fall, Spring

Structured observation and supervised practice in marriage, family, and child counseling. Application of material learned in EDC 234. Emphasis on establishing relationships and interviewing techniques with multiple clients, assessment techniques, setting goals, and learning to think systemically. Laboratory two hours.
Credit/No Credit

EDC 480. Field Study In Counseling. 2 - 6 Units
Prerequisite(s): EDC 475 and all of its prerequisities. Additional prerequisites by specialization: MFCC - completion of required courses except culminating requirement.
Corequisite(s): By specialization: School - EDC 272.
Term Typically Offered: Fall, Spring

Supervised counseling and field experiences arranged in community-based settings such schools, colleges and/or agencies. One hundred clock hours of experience required for each unit of credit for a total of six hundred clock hours (or 6 units). Weekly supervision is provided throughout the field experience: one hour per week of individual/triadic supervision and one and half hours per week of group supervision.
Note: Department petition and approval of faculty advisor is required the semester prior to enrollment.

Credit/No Credit

EDC 500. Master's Culminating Experience. 1 Unit
Prerequisite(s): Advanced to candidacy for the master's degree and enrollment in the last semester of course work; Classified student in the Counselor Education Program; Department petition required the semester prior to enrollment.
Term Typically Offered: Fall, Spring

Focuses on reviewing and synthesizing of student's knowledge of theory, and practice. A review and examination of previous learning will be included.
Note: Taken in preparation for the comprehensive examination.

Credit/No Credit

EDC 551. Master's Project - Counseling - Plan B. 3 Units
Prerequisite(s): Advanced to candidacy. All course requirements in Counselor Education and EDC 505.
Term Typically Offered: Fall, Spring

Completion of a project approved for the Master's degree.
Note: Department petition is required the semester prior to enrollment.

EDD 600. Transformational Leadership. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Designed to engage students in understanding, implementing, and evaluating strategic leadership practices based on various theories, models, and approaches for achieving organizational transformation. Students will become skilled facilitators of the organizational transformation process by initiating, implementing, sustaining, and evaluating transformation/change efforts. Students will build a solid foundation through the integration of theory and practice in order to implement a planned change process in their home institution.

EDD 601. Organizational Leadership. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Builds and expands on candidates' knowledge of systems thinking, personal and organizational behaviors, and leadership approaches to the change process. Candidates will demonstrate ethical thinking and action in organizational settings by re-conceptualizing leadership roles and organizational structures. In coursework and related fieldwork components students will apply concepts and theories to improving their respective educational institutions. Among the interactive pedagogies used are: case studies, experiential exercises, dialogue and group activities.

EDD 602. Policy and Practice for Educational Leaders I. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Develops in students the skills for informed analysis of educational policy in order to positively influence the educational policy in the K-12 or community college setting. In addition to studying the historical perspectives pertaining to educational policy, practice, and reform, students will investigate the mission of public education. Students will also study governance and inter-governmental relations through contemporary policy development with particular reference to current law, local board policy, shared governance, and working with a variety of constituencies.

EDD 603. Policy and Practice for Educational Leaders II. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Designed to engage students in critical analyses of policy at the local, state, national, and international levels. Specific California and federal policy environment structures and processes will be examined. Students will learn about how public policy is generated, potential consequences, ethical dilemmas, social justice, and equity issues.

EDD 604. Introduction to Educational Research. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program.
Term Typically Offered: Fall only

This course will introduce students to the uses of qualitative and quantitative data analysis by educational leaders for the purpose of improving student and organizational outcomes. In addition, the student will be introduced to qualitative, quantitative and mixed-methods research designs in preparation for conducting independent research and designing a doctoral dissertation. This course will also enable students to critically understand and critique various forms of data and apply it appropriately to a variety of educational issues.

EDD 605. Qualitative Research Methods. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program.
Term Typically Offered: Spring only

This course is designed to provide doctoral students with instruction in qualitative research approaches as applied to questions of educational leadership and policy. The course will emphasize individual and group interviewing as techniques for qualitative study data collection as well as coding and analysis of qualitative data. This course is particularly useful for doctoral students who plan to conduct a qualitative or mixed method dissertation related to an educational leadership and/or policy topic.

EDD 606. Quantitative Research Methods. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program.
Term Typically Offered: Fall only

This course will introduce educational leaders to concepts in quantitative research in preparation for conducting independent research. This course will enable students to critically understand, critique, and develop quantitative research methodology and apply it appropriately to various educational issues.

EDD 607. Community and Communication in Educational Leadership. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Presents theories and frameworks concerning organizational, interpersonal, and cross-cultural communication in educational and community contexts. Includes developing written and verbal skills for specific contexts, including strategic planning, evaluation, presentations, formal and informal texts, technology, crisis management, and public relations. Through research and practical application, enhances communication skills needed for creating inclusive systems and positive results for all stake-holders.

EDD 608. Diversity and Equity in Complex Organizations. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Designed to engage students in self introspection of awareness and advocacy in applying theoretical frameworks and research to promote equitable, excellence in schooling. Students will demonstrate the ability to develop cross-cultural relationships across multiple constituents for the purpose of improving students performance and promoting social justice. Students will develop the capacity to be courageous change agents in assuring academic excellence for all students.

EDD 609. Human Resource Management for Educational Leaders. 3 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Examines how to manage human resources effectively in the dynamic legal, social, and economic environment currently impacting educational institutions. Among the topics included are: formulation and implementation of human resource strategy, job analysis, methods of recruitment and selection, techniques for training and development, performance appraisal, compensation and benefits, and the evaluation of the effectiveness of human resource management frameworks and practices. Class participants will be expected to demonstrate understanding of Human Resource Management (HRM) competencies through assignments, exercises and case analyses.

EDD 610. Curriculum and Instruction Issues for Educational Leaders. 3 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Presents curriculum and instruction from a leadership perspective within the contexts of K-12 schools and community colleges. Students examine contemporary issues in school curriculum, including policy initiatives and reform efforts affecting curricular decision-making. Prepares students to analyze and design appropriate strategies for implementing and evaluating district and school curricula and to investigate the implications of curricula for educational programming. Students also learn specific foundations and procedures for professional development that have well-documented effects on student achievement.

EDD 611. Legal Issues for Educational Leaders. 2 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Examines key legal issues that govern daily and long-range decisions of educational leaders. Focuses on understanding California and federal codes, case law, policies, and significant precedent and will emphasize analysis of key legal concepts and application of law to major areas including finance, personnel, risk management, curriculum, student services, teacher rights, torts, students rights, and access. Examines trends in law and the initiation and influence of educational law to positively influence educational institutions.

EDD 612. Student Services in Education. 2 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Provides a comprehensive insight into the student services. It addresses both practical and theoretical perspectives intended to build a sense of vision and passion to transform the profession of student affairs and leadership. In particular, examines four distinct arenas: 1) historical and philosophical foundations of student affairs and leadership 2) management and organizational issues, 3) essential skills and professional development in building an equitable organization, and 4) the synthesis of practice and theory.

EDD 613. Finance and Budget for Educational Leaders. 2 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Analyzes two related topics with respect to public educational institutions: funding and internal budget management. Provides a state and national overview of the economics and finance of K-12 and higher education, including private and public benefits of education, methods of financing public education, and contemporary policy issues regarding school and college finances. Focuses on how educational leaders can most effectively manage resources to further the vision, goals, and philosophy of the organization.

EDD 614. Issues in Educational Leadership: Synthesis and Application. 3 Units

Prerequisite(s): Admission into the Ed.D. in Educational Program and instructor permission.
Term Typically Offered: Fall, Spring

This problem based seminar integrates the three themes of the program. Includes conducting a review of the literature that will later be integrated into the candidates' proposal. In addition, each student will study and select theoretical frame/s that supports their doctoral topic. Students will also work in teams formed by research interests. They will present findings to classmates in forums that they facilitate and they will critique each other's work.

EDD 615. Dissertation Proposal Seminar. 6 Units

Prerequisite(s): Passed Ed.D. Qualifying Examination and instructor permission.
Term Typically Offered: Fall, Spring

Provides faculty and peer guidance in preparation of material to develop the dissertation proposal. Students will be guided in the clarification of dissertation topic, familiarization with relevant literature, and the development of a sound methodology. Students will learn how to critically analyze and provide constructive criticism to key research components proposed by others. At the end students are expected to complete the first three chapters of their dissertation in anticipation of their dissertation defense.

EDD 616. Dissertation I. 6 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.
Note: Students must have passed their qualifying examination and successfully defended their dissertation proposal.

Credit/No Credit

EDD 616A. Dissertation I - Seminar. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Corequisite(s): EDD 616B.
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program. This course provides a 3 unit seminar in support of the first phase of the dissertation.
Note: Students must have passed their qualifying examination and successfully defended their dissertation proposal.

Credit/No Credit

EDD 616B. Dissertation I - Research and Writing. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Corequisite(s): EDD 616A
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.
Note: Students must have passed their qualifying examination and successfully defended their dissertation proposal.

Credit/No Credit

EDD 617. Dissertation II. 6 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and completion of EDD 616 and instructor permission.
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.

EDD 617A. Dissertation II - Seminar. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission. EDD 616A.
Corequisite(s): EDD 617B.
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program. This course provides a 3 unit seminar in support of the second phase of the dissertation.
Note: Students must have passed their qualifying examination and successfully defended their dissertation proposal

Credit/No Credit

EDD 617B. Dissertation II - Research and Writing. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission. EDD 616B.
Corequisite(s): EDD 617A.
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.
Note: Students must have passed their qualifying examination and successfully defended their dissertation proposal.

Credit/No Credit

EDGR 210. Contemporary Issues in Education: Curriculum and Social Emotional Well Being of Students. 3 Units
Term Typically Offered: Fall, Spring

This course examines contemporary issues in education, with special attention to the social, cultural, political, economic, and institutional dynamics of educational processes and the impacts on students, schools, and communities. Fulfilling the mission of the Masters programs and the College of Education vision, the course focuses on preparing students to become social change agents in schools and communities. Topics covered will fit into the two threads of (a) curriculum and (b) social emotional well-being of students.

EDGR 211. Contemporary Issues in Education: Context of Schooling and Leadership. 3 Units
Term Typically Offered: Fall, Spring

This course examines contemporary issues in education, with special attention to the social, cultural, political, economic, and institutional dynamics of educational processes and the impacts on students, schools, and communities. Fulfilling the mission of the Masters programs and the College of Education vision, the course focuses on preparing students to become social change agents in schools and communities. Topics covered will fit into the two threads of (a) context of schooling and (b) leadership.

EDGR 220. Issues in New Literacies throughout the Lifespan. 3 Units
Term Typically Offered: Fall, Spring

This course examines contemporary issues in literacy. The course introduces students to pedagogies and politics of new literacies within a variety of contexts: academic, new literacy studies, technology literacy, cultural, family, community, and workplace literacy. From a frame of literacy/illiteracy, students examine its connections with economic, political, social, occupational, education, governmental, and cultural change. Students will study how literacy programs are organized and implemented, examine research on the rationale for literacy, including the connection between literacy and healthy, livelihoods, empowerment, community development and cognitive skills.

EDGR 260. Writing and Research Across the Disciplines. 3 Units
Prerequisite(s): Admission to graduate program in the College of Education or instructor permission
Term Typically Offered: Fall, Spring

Orientation to graduate study design to introduce students to research within their field of study and across disciplines in the College of Education. Overview of qualitative and quantative methods and basic statistical concepts. Focus on writing to communicate evidence-based knowledge in a professional manner using APA style. Includes research presentations, active discussion, critical reading, and analytical writing with some activities.
Note: This course serves as a foundation for further study and must be taken prior to 250. This course satisfies the GWI requirement.

EDGR 270. Makerspaces. 3 Units
Term Typically Offered: Fall, Spring, Summer

This course examines makerspaces as locales, which are central to 'maker' culture. Students will explore the role of makerspaces in local, national and international communities. Specifically, students will conduct critical analysis of the concepts surrounding the rise of 'third spaces' in American society to understand the proliferation of makerspaces throughout the United States. Students will also investigate the integration of makerspaces into schooling and vocational practices as they explore ways that makerspaces function to develop 21st century learning and innovation.

EDGR 272. Project-Based Learning and Assessment for Maker Educators. 3 Units
Prerequisite(s): EDGR 270, EDGR 273
Corequisite(s): Practicuum
Term Typically Offered: Spring, Summer

In this hybrid course that includes equal parts theory and practical application students will experience what it is to both complete skill and performance based tasks using a Makers approach and also assess those same tasks through the lens of 21st Century Skills: communication, collaboration, critical thinking, problem solving, creativity and innovation.

EDGR 273. Maker Theory and Practice. 3 Units
Prerequisite(s): EDGR 270.
Term Typically Offered: Fall, Spring, Summer

This course is an overview of theoretical frameworks that undergird making, the maker movement, and Maker Education. We will examine the ideas and practices associated with educational reforms that emphasize do-it-yourself (DIY) learning and 21st century skill development in high-tech and low-tech environments. Students will critically investigate the connections between theoretical perspectives and applied practices including STEM/STEAM Initiatives, design thinking, critical making, project-based learning, and universal design for learning. Theories that students will explore include: constructivism, constructionism, culturally sustaining pedagogy.

EDGR 274. Practicum for Maker Educators. 3 Units
Term Typically Offered: Spring, Summer

Supervised maker practice in community and/or school setting to be approved by instructor. Practicum emphasizes the function of maker theories in the development and implementation of maker programming. Basic requirements: 200 clock hours with at least 100 hours devoted to practical application of theoretical frameworks in programming and assessment, two hours per week of skill building with maker tools, and one hour bi-weekly of mentoring with practicum supervisor. Prereqisite: EDGR 270, EDGR 272, and EDGR 273.
Credit/No Credit

EDGR 287A. Seminar in Culminating Experience Exploration and Design. 1 Unit
Term Typically Offered: Fall only

Explore and identify potential Culminating Experience project topics in instructional design and/or educational technology trends and issues through surveys of published research, discussions, and presentations with peers and professionals. Compare and contrast existing literature and research, identify trends, recognize real-world best practices, and explore underlying factors contributing or relating to your Culminating Experience topic of interest.
Credit/No Credit

EDGR 287B. Seminar in Culminating Experience Development and Proposal. 2 Units
Prerequisite(s): EDGR 287A
Term Typically Offered: Spring only

Discuss, develop and propose a Culminating Experience project in instructional design and/or educational technology based on prior exploration and identification of topics and issues. Develop program ePortfolio.
Credit/No Credit

EDLP 200. Diversity and Equity in Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

The primary objective of this course is to prepare future education administrators to lead for a just, equitable, and inclusive education in all educational environments.

EDLP 200A. Diversity and Equity in Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

Primary objective is to provide a learning environment conducive to the development of knowledge, understanding and skills consistent with Multicultural Education and pluralistic philosophy. It will examine the advantages and complexities of a strategic approach to school and community relationships. Content will focus on public policy formation; community education role of culturally and linguistically diverse groups; current recommendations and emerging issues as they relate to the role of the school, family, and community in the ongoing debate of school reform.

EDLP 201. Foundations of Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

An introduction to theory and practice of educational leadership at the local, state, and federal levels. Specifically, students will examine strategies and techniques to effectively lead schools and other educational settings in the 21st century.

EDLP 201A. Foundations of Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

Introduction to theory and practice of educational administration at the local, state, and federal levels including but not limited to the structure and function of administration, organizational behavior, interpersonal relationships, trends affecting contemporary practice, and the changing nature of school reform. Designed to encourage introspection and the reflective process to examine students' values, beliefs and needs. Students will examine strategies for integrating new information and experiences into their evolving professional knowledge base.
Note: May be taken twice for credit (Adm Credential Interns).

EDLP 202. School Law and Ethics of Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

The study of school law and ethical decision making as it applies to school leadership including federal and state decisions affecting the educational setting.

EDLP 202A. Legal Basis of Education. 3 Units
Prerequisite(s): Admission to the Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Study of school law as set forth in the common law, state, and federal constitutions, statutes, judicial decisions, and in the rules and regulations of state departments and local units of administration.

EDLP 203. Foundations of Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

School finance with focus on the State of California school system.

EDLP 203A. Financial Resources Planning and Allocation. 3 Units
Prerequisite(s): EDLP 201
Term Typically Offered: Fall, Spring

School finance and business administration with focus on the California school system.

EDLP 205. Instructional Leadership. 3 Units
Term Typically Offered: Fall, Spring

Instructional leadership that focuses on the diverse needs of students through the collection and analysis of data, state standards, accountability systems and culturally relevant pedagogy. Theory and practice will be explored on the best practice of supervisory techniques, classroom observation, and teacher improvement.

EDLP 205A. Curriculum and Instructional Leadership in K-12 Schools. 3 Units
Prerequisite(s): EDLP 201
Term Typically Offered: Fall, Spring

Focuses on the significance of instructional leadership in the design and implementation of curriculum leading to high achievement for all students in K-12 schools. Particular attention will be given to current state and federal school accountability requirements, standards-based curriculum, the use of disaggregated student achievement data to design an instructional program appropriate to and effective for a diverse student population, and best research-based instructional practices.

EDLP 206A. Supervision and Leadership. 3 Units
Prerequisite(s): Admission to the Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Supervisory theory and technique, including assessment of educational innovations, supervision of teaching, development of strategies for in-service programming, and the roles of various groups and individuals in the improvement of instruction.

EDLP 208A. School Leadership/Management. 3 Units
Prerequisite(s): Admission to the Educational Leadership Program
Term Typically Offered: Fall, Spring

Examination, synthesis, and application of contemporary leadership/management theory and processes at the site or unit level; consideration given to the expanding roles and current requirements in the administration of educational enterprises. Lecture three hours per week.

EDLP 209. Organizational Systems and Human Resources. 3 Units
Term Typically Offered: Fall, Spring

Students will engage in examination, synthesis, and application of human resources and management practices necessary to effectively serve as school leader in P-12 educational setting.

EDLP 209A. Human Resources and Supervision. 3 Units
Term Typically Offered: Fall, Spring

Examines human resources and personnel practices in educational organizations. Key themes and issues in personnel will be presented with broad assumptions regarding dominant practices and their application to establishing positive human relations.

EDLP 221. Foundations in Higher Education Leadership. 3 Units
Prerequisite(s): Admission to the Master of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Analyzes higher education including its historical, political, philosophical and social aspects with emphasis upon the implications of crucial issues for leaders in higher education. An examination of the historical origins of contemporary practices and discourse and an analysis of the complex relationships between society and institutions of higher education: patterns of governance and coordination; diversity; overview of organizational and administrative structure; faculty; curriculum; student affairs, policy, and demographic trends.

EDLP 222. Diversity in Higher Education. 3 Units
Prerequisite(s): Admission to the Master of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Engages participants in a process of inquiry and reflection through self-critique, peer critique, and the dialogical examination of our assumptions, ideas, and understandings that promote intellectual growth. Participants will examine and discuss the literature, research, and discourse concerning theory, policy, and practice about diversity and its relation to higher education.

EDLP 223. Advanced Seminar: Student Affairs Leadership. 3 Units
Prerequisite(s): Admission to the Master of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Administration of student services and student affairs in colleges and universities. Principles that guide professional practice and decision making will be explored, as will the roles and responsibilities of student affairs professionals. Students will have the opportunity to explore current and future issues and directions in student services.

EDLP 224. Advanced Seminar: Dynamics of Organizational Change. 3 Units
Term Typically Offered: Fall, Spring

Students will engage in examination, synthesis, and application of theories of change, organizational problem solving, planning and evaluation and change management. An exploration of administrative roles and responsibilities.

EDLP 225. Advanced Seminar: Ethical Decision Making. 3 Units
Prerequisite(s): Admission to the Master of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Links analysis with action through a survey of the ethical, legal, and professional issues facing the public or private education administrator. Underlying decision making is to understand the basic nature of the academic enterprise and apply social and moral values to the management of higher education and ethical decision making.

EDLP 226. Workforce Development Professional Competencies. 3 Units
Term Typically Offered: Fall, Spring

Explores the foundational and professional competencies of workforce education and development in the context of educational institutions, business and industry, government, NGOs, and economic development at the national and local/regional level. Introduces the field and practice of human resource development in the workplace.

EDLP 227. Leading the Way for Student Success: Student and Instructional Services. 3 Units
Term Typically Offered: Fall, Spring

Participants will explore changing demographics, accountability regarding statewide mandates, reporting regulations, and accreditation, new technology and other factors impacting California's community college student services programs and professionals. Gain an understanding of the philosophy and mission of student services initiatives and programs and student development theory. Examine the role of faculty as leaders in curriculum, instruction and assessment and student success. Understand the purposes and uses of research and technology to address student outcomes, teaching and learning, institutional effectiveness, and decision-making.

EDLP 228. Innovative Leadership: Strengthening Organizational Capacity. 3 Units
Term Typically Offered: Fall, Spring

California higher education leaders are presented with increased legislative and public pressure for accountability while in an era of chronic and disparate under-funding of the system. Understand the relationship between higher education finance and the overall fiscal operations of California's higher education systems.

EDLP 229. Adult Education and Learning. 3 Units
Term Typically Offered: Fall, Spring

Explores the historical and philosophical foundations of the field of adult education and learning. Contemporary applications of adult learning theories and practices are explored to provide a broad understanding of andragogy (the art and science of teaching adults) and how it relates to workforce development and other related fields (e.g., career and technical education, human resource development).

EDLP 230. Master of Arts Thesis/Project Seminar. 3 Units
Prerequisite(s): EDLP 250 and advancement to candidacy.
Term Typically Offered: Fall, Spring

This individualized seminar is designed to extend research knowledge, and provide direction in the use of library/professional education resources, as well as exposure to sample theses and projects using APA style. Reviews research methods and a review of the literature and provides instruction in the appropriate academic writing style and format for academic presentations.
Credit/No Credit

EDLP 250. Education Research. 3 Units
Prerequisite(s): Admission into the EDLP Program.
Term Typically Offered: Fall, Spring

Studies qualitative and quantitative methods in the development of reliable knowledge in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies. Establishes and improves students' professional and academic writing skills in preparation for leadership duties. Classified students are encouraged to take this course early in their graduate programs.
Note: Graduate Writing Intesive (GWI) course.

EDLP 255. Field Experience Seminar. 3 Units
Prerequisite(s): Completion of 12 units including EDLP 200, EDLP 201, and either EDLP 205 or EDLP 206A for Preliminary Administrative Services Internship Credential students only.
Corequisite(s): EDLP 401 and/or EDLP 402 for Administrative Services Credential students only.
Term Typically Offered: Fall, Spring

Experience and practice in observation and analysis of school environment, including disaggregated student achievement data.
Note: Intern Students are allowed to take class twice and can take course concurrently with EDLP 401 and EDLP 402.

Credit/No Credit

EDLP 270. Advanced Seminar: Applied Leadership and Staff Teambuilding. 3 Units
Prerequisite(s): Graduate level status within the School of Education and instructor permission.
Term Typically Offered: Fall, Spring

Develop a comprehensive theoretical/conceptual framework from which to view current research surrounding Organizational Leadership and Staff Teambuilding. Special emphasis will be on providing students with experiential learning activities beyond the classroom and incorporate challenging outdoor components. Students will develop a resource portfolio relevant to their unique work situations.

EDLP 273. Advanced Seminar: Grants, Proposals and Systematic Planning. 3 Units
Term Typically Offered: Fall, Spring

Systematic planning theory and skills with particular attention to use of these skills in the development of grant proposals. Students will use funding agency regulations and guidelines relative to program development and implementation, and will develop a proposal which may be submitted to a funding agency.
Credit/No Credit

EDLP 277. Advanced Seminar: Assessment. 2 Units
Prerequisite(s): Admitted into the Professional Administrative Credential.
Term Typically Offered: Fall, Spring

Engage participants in a process of ongoing assessment of their administrative practice as school leaders. Such ongoing assessment uses multiple points of data, multiple sources of information, and multiple feedback sources such as colleagues and mentors.
Credit/No Credit

EDLP 286. Advanced Seminar: Supervision and Leadership. 3 Units
Prerequisite(s): Admission to the Educational Leadership Program, EDLP 206A, instructor permission.
Term Typically Offered: Fall, Spring

Through lecture and discussion, philosophical and practical problems of supervision of instruction will be explored. Current research on effective teaching, staff development, supervisory techniques, and theories of learning for both students and adults will be examined as a basis for sound supervision practices.

EDLP 292. Advanced Seminar: Current Topics in Educational Leadership and Policy Studies. 3 Units
Term Typically Offered: Fall, Spring

Selected current topics of concern to those involved with the administration of schools and other educational systems.
Credit/No Credit

EDLP 293. Induction Seminar. 2 Units
Term Typically Offered: Fall, Spring

Induction Seminar leads to the training experience of the Professional Administrative Services Credential candidate. Facilitates the interaction among candidate, district mentor, and university advisor, per standards of the Commission on Teaching Credentialing. Through guided practice, candidates are prompted and supported in developing an individualized induction plan. This induction plan includes mentoring, academic program at the university and non-campus components.
Credit/No Credit

EDLP 296A. Capstone Research Project. 3 Units
Prerequisite(s): Advancement to Candidacy
Each student conducts an individual project to fulfill the culminating experience graduation requirement. The course covers application of research in education to the professional practice of educational leadership, and integrates the accumulated knowledge, skills and strategies delivered in the program. This course is the culmination of the MA in Educational Leadership/Higher Education Leadership, leading to completion of the final project and the 4-semester degree.
Credit/No Credit

EDLP 296D. Leading with Technology in Institutions of Higher Education. 3 Units
Prerequisite(s): Admissions to the Master's of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Geared specifically to meet the needs of those leaders in higher education. Those new to technology or those who want to learn more about using technology to lead programs and institutions of high education. Participants will be provided with an array of appropriate educational technology resources to drive decision making practices. They will also learn various programs and software used to address enrollment management, admissions, records, fiscal matters, etc.

EDLP 299. Special Problems Educational Leadership. 1 - 4 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required. Professional Credential Students only may take up to 8 units.

Credit/No Credit

EDLP 299T. Special Problems - Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading - for students working on their culminating MA requirements.
Note: Departmental petition required.

Credit/No Credit

EDLP 401. Internship On-the-Job Experience. 8 Units
Term Typically Offered: Fall, Spring

First semester of the on-the-job internship experience. Interns are supervised in the administrative roles by sponsoring employing agency, as well as by university faculty. Limited to, and required of, internship candidates for the Preliminary Administrative Services Internship Credential.
Credit/No Credit

EDLP 402. Internship On-the-Job Experience. 8 Units
Term Typically Offered: Fall, Spring

Second semester of the on-the-job internship experience. Interns are supervised by sponsoring employing agency, as well as by university sponsors. Limited to, and required of, candidates for the Preliminary Administrative Services Internship Credential.
Credit/No Credit

EDLP 403. Internship On-the-Job Experience. 8 Units
Corequisite(s): EDLP 413.
Term Typically Offered: Fall, Spring

Third semester of the on-the-job experience for candidates who have not completed their credential requirements during the first year of internship. (Refer to EDLP 401.) Limited to, and required of, candidates for the Preliminary Administrative Services Internship Credential.
Credit/No Credit

EDLP 404. Internship On-the-Job Experience. 8 Units
Corequisite(s): EDLP 414.
Term Typically Offered: Fall, Spring

Fourth semester of the on-the-job internship experience. (Refer to EDLP 403.)
Credit/No Credit

EDLP 413. Supplemental Internship Experience. 6 Units
Corequisite(s): EDLP 403.
Term Typically Offered: Fall, Spring

Third semester of the supplemental internship experience. Provides first-hand visitations and experiences in various educational and community agencies at state, county, district, and local school levels; additional supervised experience for candidates; and seminar experiences in observation and analysis of school environments for candidates for the Preliminary Administrative Services Internship Credential.
Credit/No Credit

EDLP 414. Supplemental Internship Experience. 6 Units
Corequisite(s): EDLP 404.
Term Typically Offered: Fall, Spring

Fourth semester of the supplemental internship experience. Provides first-hand visitations and experiences in various educational and community agencies at state, county, district, and local school levels; additional supervised experience for candidates; and seminar experiences in observation and analysis of school environments for candidates for the Preliminary Administrative Services Internship Credential.
Credit/No Credit

EDLP 495A. Field Study in Educational Leadership. 3 Units
Prerequisite(s): Admission to Educational Leadership Program; completion of twelve (12) units of EDLP coursework, including EDLP 255; approval of faculty advisor.
Term Typically Offered: Fall, Spring

On-the-job experience in which the candidate assumes responsibility for observation and analysis of school environments including leadership responsibilities, supervision of instructional program, and overall school climate.
Credit/No Credit

EDLP 495B. Field Study in Educational Leadership. 3 Units
Prerequisite(s): EDLP 495A
Term Typically Offered: Spring only

Students will participate in leadership driven field experience at a TK-12 educational setting. The leadership activities will be purposefully planned to ensure the student engages in work that supports their learning as a future/current leader while simultaneously supporting the educational setting with their initiatives.
Credit/No Credit

EDLP 498. Advanced Administrative Field Experience. 8 Units
Prerequisite(s): Admission to Professional Administrative Services Credential Program and full-time employment as a school administrator.
Term Typically Offered: Fall, Spring

Candidates for the Professional Administrative Services Credential are supervised in full-time administrative roles by sponsoring employment agency and university faculty.
Credit/No Credit

EDLP 500A. Master of Arts Thesis/Project. 3 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis or project committee.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree.

EDLP 500B. Master of Arts Thesis/Project. 3 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis or project committee.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree.

EDS 140. Introductory Behavioral Statistics. 3 Units
Term Typically Offered: Fall, Spring

Descriptive and interpretative statistics in education and allied fields. Use of calculators and statistical tables. Lecture three hours.

EDS 201. Legal Aspects of Special Education. 3 Units
Term Typically Offered: Fall, Spring

Legislative provisions related to implementation of special education programs and procedures will be a primary focus. Additional emphasis will be given to pertinent judicial decisions and to law as it relates to special education in a multicultural context.

EDS 202. Seminar in Neurodevelopmental Disabilities. 3 Units
Term Typically Offered: Fall, Spring

Examines topics and issues in neurodevelopmental disabilities and includes educational, clinical, habilitative, therapeutic, and medical perspectives. Focuses on collaborative, interdisciplinary perspectives on educational and related interventions with students who have neurodevelopmental disabilities.

EDS 203. Seminar for Resource Specialists: Management and Delivery of Services. 3 Units
Prerequisite(s): EDS 201, EDS 101 and Special Education Credential.
Term Typically Offered: Fall, Spring

Review of literature, and simulated experience in the various roles of the resource specialist in special education programs in the schools. Professional problem-solving strategies; standards and procedures; model program organizational alternatives; management approaches of resource specialist program (RSP); major developments and trends at Federal, State and local levels; references to legal provisions, rules and regulations in special education.
Credit/No Credit

EDS 213A. Mathematics Curriculum and Instruction in Inclusive Classrooms. 2 Units
Corequisite(s): EDS 213B.
Term Typically Offered: Fall, Spring

Prepares Mild/Moderate/Severe and multiple subject teacher candidates to teach mathematics content standards for California public schools. Prepares teacher candidates with the knowledge of basic principles and strategies related to mathematics education. Candidates develop, implement, and evaluate math curricula appropriate for those students receiving special education services with mild/moderate/severe disabilities. Expanded treatment of mathematics pedagogy, manipulative, technological supports, accommodations, inclusive instructional techniques, and strategies specially suited in instruction of English language learners and students with disabilities. Prerquisite: Admittance to Mild/Moderate or Moderate/Severe Credential Program or permission of respective special education coordinator.

EDS 213B. Mathematics Curriculum and Instruction in Inclusive Classrooms Lab. 1 Unit
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential Program or permission of respective special education coordinator.
Corequisite(s): EDS 213A.
Term Typically Offered: Fall, Spring

Field-base practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 213A) in a setting for students who receive special and/or general education services.
Credit/No Credit

EDS 214A. Social Science Curriculum and Instruction in Inclusive Classrooms. 2 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education coordinator.
Corequisite(s): EDS 214B.
Term Typically Offered: Fall, Spring

Prepares mild/moderate/severe and multiple subject teacher candidates to teach history-social science content standards for California public schools to all students, including English Learners and students with disabilities; to use analytical and critical thinking skills in history and social science; and to integrate history-social science topics, themes and concepts with other subject areas. Pedagogical topics include the use of timelines, maps, and artifacts, case studies, simulations, literature, art, multiple perspectives, SDAIE, cooperative projects, and research activities.

EDS 214B. Social Science Curriculum and Instruction in Inclusive Classrooms Lab. 1 Unit
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education coordinator.
Corequisite(s): EDS 214A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 214A) in a setting for students who receive special and/or general education services.
Credit/No Credit

EDS 215A. Science Curriculum and Instruction in Inclusive Classrooms. 2 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education coordinator
Corequisite(s): EDS 215B
Term Typically Offered: Fall, Spring

Prepares mild/moderate/serve and multiple subject teacher candidates to teach science content standards for California public schools to all students. Give participants the knowledge of basic principles and strategies related to science education appropriate for general education (k-8) teacher candidates. Participants will also develop, implement, and evaluate science curricula appropriate for those students with mild/moderate/severe disabilities. This includes an expanded treatment of science pedagogy, manipulative, technological supports, accommodations, inclusive instructional techniques, and other strategies specially suited to the instruction of English Learners and students with disabilities.

EDS 215B. Science Curriculum and Instruction in Inclusive Classrooms Lab. 1 Unit
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education coordinator
Corequisite(s): EDS 215A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 215A) in a setting for students who receive special and general education services.
Credit/No Credit

EDS 222. Perspectives Workforce Dev. 3 Units
Term Typically Offered: Fall, Spring

Examines the premises of workforce development and advocacy with emphases on adult learning styles and learning communities. Explores the specific needs of the formal and informal vocational, technical and adult learning community in an ever-changing work environment.

EDS 223. Organization Learning Comm. 3 Units
Term Typically Offered: Fall, Spring

EDS 224. WF Assess+Accountability. 3 Units
Term Typically Offered: Fall, Spring

EDS 226. Resource Enhance For WDA. 3 Units
Term Typically Offered: Fall, Spring

EDS 227. Issues Impacting WDA. 3 Units
Term Typically Offered: Fall, Spring

EDS 228. Sem:Future Workforce Dev. 3 Units
Term Typically Offered: Fall, Spring

EDS 231. Group Process in School Psychology. 3 Units
Term Typically Offered: Fall, Spring

Designed to equip students with the group process skills and understanding essential to the practice of school psychology. Focus on both developing counseling groups within the schools and on the understanding of group process necessary to being an effective agent in the school setting. Topics include the logistics of working within a school system, balancing groups, soliciting referrals, sharing information, participating in staff meeting, and facilitating parent teacher and other school level meetings such as Individualized Education Program Planning meetings.

EDS 239. Education Specialist Seminar. 3 Units
Prerequisite(s): Approval as a candidate in the Education Specialist program, completion of courses required for the School Psychology Internship credential, approval of advisor, and department petition.
Term Typically Offered: Fall, Spring

Explores leadership roles of school psychologists.
Credit/No Credit

EDS 240. Functional Assessment of Behavior. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Assessment of behaviors using the techniques of applied behavior analysis. Students will learn how to do functional assessments of behavior. Methods appropriate for assessment of children in the school setting are emphasized.

EDS 241. Counseling and Psychotherapy for School Psychologists. 3 Units
Corequisite(s): EDS 440.
Term Typically Offered: Fall, Spring

Examination of basic theories of counseling and therapy used by school psychologists, with emphasis on children and youths inn an educational setting and their families. Refinement of one's own counseling orientation is required.

EDS 242A. Cognitive Assessment. 3 Units
Corequisite(s): EDS 242B.
Term Typically Offered: Fall, Spring

Designed to introduce prospective school psychologists to both theory and practice in the assessment of cognitive abilities. Students will be exposed to various approaches to cognitive assessment including information processing, CBA, dynamic, and psychometric. Students will learn to administer and interpret major standardized cognitive assessment instruments including the WISC-R, WAIS-R, Stanford-Binet FE, K-ABC, and others. Lecture.

EDS 242B. Cognitive Assessment Lab. 4 Units
Corequisite(s): EDS 242A.
Term Typically Offered: Fall, Spring

Clinic based practice lab. Lab will be a synthesis and application of course content in the assessment of cognitive function. Students will be assigned clients for purposes of administering, scoring, evaluating and reporting assessment data.

EDS 243. Assessment Practicum. 3 Units
Term Typically Offered: Fall, Spring

Administration, scoring, and interpretation of tests taught in EDS 242A-B, EDS 244, or EDS 247. Students will be assigned five to seven cases. They will assess the children, meet with the families to gather history, and render interpretation.
Note: Must be taken concurrently with EDS 242A, EDS 242B, EDS 244, and EDS 247. May be taken twice for credit.

EDS 243A. Assessment Practicum A. 3 Units
Term Typically Offered: Fall, Spring

Administration, scoring, and interpretation of tests taught in EDS 242A and B and EDS 244. Students will be assigned five cases. They will assess the children, meet with the families to gather history, and render interpretation.
Note: Taken concurrently with EDS 244, unless granted special permission of faculty.

EDS 243B. Assessment Practicum. 3 Units
Prerequisite(s): EDS 243A
Corequisite(s): EDS 247
Term Typically Offered: Fall, Spring

Advanced practice in administration, scoring, and interpretation of tests taught in EDS 242A-B, EDS 243A, EDS 244, and EDS 247. Students will be assigned five to seven cases (with some cases in Fieldwork placements). Development of skills in assessment, analysis of data, intervention planning and conveying results orally and in writing.
Note: Taken concurrently with EDS 247, unless granted special permission of faculty.

EDS 243C. Assessment Practicum. 3 Units
Prerequisite(s): EDS 243B
Term Typically Offered: Fall, Spring

Continued training in development of advanced skills in administration, scoring, and interpretation of tests taught in EDS 242 A-B, EDS 243A, EDS 243B, EDS 244, or EDS 247. Students will be assigned cases by the practicum supervisor as appropriate. Students are expected to successfully engage in all stages of assessment process with clients.
Note: Taken with permission of faculty after completion of EDS 243A and EDS 243B.

EDS 244. Social, Emotional and Behavioral Assessment. 3 Units
Prerequisite(s): EDS 242A and EDS 242B.
Corequisite(s): EDS 243.
Term Typically Offered: Fall, Spring

Examines social/emotional assessment strategies and instruments appropriate for working with students in schools. Topics include clinical interviewing, social-emotional functioning, conduct disorder, and effective report writing. Students use course information during concurrent enrollment in EDS 243: Assessment Practicum.
Note: Must be admitted to School Psychology Program.

EDS 245. Psychology In The Schools. 3 Units
Prerequisite(s): Must be admitted to School Psychology Program.
Term Typically Offered: Fall, Spring

Overview of psychology in the schools. Topics include school systems, program development, service delivery models and the role of the school psychologist. Students will engage in systematic school observations.

EDS 246A. Preventive Academic Interventions. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Study and application of various primary, secondary, and tertiary academic interventions designed to prevent school failure and/or learning challenges. Examines techniques of identifying pupils who are experiencing academic difficulties that interfere with school functioning, and intervention techniques designed to remediate or ameliorate these problems.

EDS 246B. Preventive Mental Health Interventions. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Study and application of various primary, secondary, and tertiary psychological interventions designed to prevent school failure and/or emotional challenges. Examines techniques of identifying pupils who are experiencing mental health difficulties that interfere with school functioning, and intervention techniques designed to address these problems.

EDS 247. Assessment of Special Needs. 3 Units
Term Typically Offered: Fall, Spring

Assessment of client behavior using formal and non-formal methods based on neuropsychological principles. Students will learn to use interview techniques, standardized cognitive and projective tests, and neuropsychological screening procedures to assess students with special needs. Report writing, parent conferences, and consultation strategies will be stressed.

EDS 248. Human Development and Learning. 3 Units
Term Typically Offered: Fall, Spring

Cognitive, socio-emotional and personality development through the lifespan (with emphasis on birth through early adulthood) as influences on the learning process. Includes analysis of theories, empirical research and current issues in human development and learning as applied to school learning.

EDS 249. Special Seminar: School Psychology. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

EDS 252A. Advanced Teacher Induction Seminar. 2 Units
Prerequisite(s): Admission to Special Education Level II program.
Corequisite(s): EDS 252B.
Term Typically Offered: Fall, Spring

Leads to the development of a Professional Level II Education Specialist Credential induction plan for the support and professional development of the teacher credential candidate as required by the California Commission on Teacher Credentialing. The candidate, the university advisor, and the employer's representative work together to plan course work, and provide individual assistance, and professional development opportunities to address individual performance goals. Seminar.
Credit/No Credit

EDS 252B. Advanced Teacher Induction Seminar Lab. 1 Unit
Prerequisite(s): Admission to Special Education Level II program.
Corequisite(s): EDS 252A
Term Typically Offered: Fall, Spring

Level II candidate, university advisor/supervisor and employer's representative work collaboratively to develop a professional plan which relates to the CCTC standards and the individual learning needs of the student. The class is designed as a lab to support the acquisition of all proscribed Level II standards and to support the development of the candidate's professional portfolio for assessment of designated competencies.
Credit/No Credit

EDS 264. Seminar in Counseling: Work Evaluation. 3 Units
Term Typically Offered: Fall, Spring

Study of the work evaluation process and the modalities utilized, with emphasis on the use of work evaluation in the rehabilitation process.

EDS 265. Current Issues in Counseling: Disabled. 1 Unit
Term Typically Offered: Fall, Spring

Examination of myths regarding the disabled client. Course includes an exploration of counseling families with a disabled member, the impact of disability upon sexuality and upon interpersonal relationships. Factual data will be presented. The student's attitude toward the disabled will be examined.
Credit/No Credit

EDS 267A. Advanced Studies in Special Education-Seminar I. 3 Units
Corequisite(s): EDS 267B.
Term Typically Offered: Fall, Spring

For candidates accepted into the Level II Alternative Option Program; skills for inservice training, working with paraprofessionals, coordinating meetings, developing consensus, dealing with conflict and serving as part of collaborative teams; e-mail, use of Listproc and attendance at monthly seminars required; attaining and documenting competencies and developing portfolios related to outcomes of the Level II Mild/Moderate or Moderate/Severe Specialist Credential. Lecture.

EDS 267B. Advanced Studies in Special Education Seminar I Laboratory. 3 Units
Corequisite(s): EDS 267A.
Term Typically Offered: Fall, Spring

Will be a synthesis and application of course content (EDS 267A) in a setting(s) for students who receive special education services. The 3-unit lab section requires approximately 90 hours of related field-based and/or on-the-job activities. E-mail/Internet access required.
Credit/No Credit

EDS 268A. Advanced Studies in Special Education-Seminar II. 3 Units
Corequisite(s): EDS 268B.
Term Typically Offered: Fall, Spring

For candidates accepted into the Level II Alternative Option Program; skills for ongoing individualized assessment and curriculum adaptation to meet needs of diverse populations and advanced skills for behavioral management in inclusive settings; e-mail, use of Listproc and attendance at monthly seminars required; attaining and documenting competencies and developing portfolios related to outcomes of the Level II M/M or M/S Specialist Credentials; individualized planning for candidates who are self-directed and committed to self improvement. Lecture.

EDS 268B. Advanced Studies in Special Education Seminar II Laboratory. 3 Units
Corequisite(s): EDS 268A.
Term Typically Offered: Fall, Spring

Synthesis and application of course content (EDS 268A) in a setting(s) for students who receive special education services. The 3-unit lab section requires approximately 90 hours of related field-based and/or on-the-job activities. E-mail/internet access required.
Credit/No Credit

EDS 269A. Collaborative Strategies for Inclusive Practice. 2 Units
Prerequisite(s): CCTC Preliminary Multiple or Single Subject credential. Sacramento State graduate status or CCE/Open University enrollee.
Corequisite(s): EDS 269B.
Term Typically Offered: Fall, Spring

For candidates seeking to meet Special Education CCTC requirements for Level 2 (Induction) Multiple or Single Subject Teaching Credentials. Candidates must demonstrate skills for ongoing IDEA and State mandates, curriculum adaptation to meet individual needs, and advanced skills for behavioral management in inclusive settings. All activities will be tied to attaining and documenting CCTC Level 2 special education standards through individual portfolios. Assignments will be designed to emphasize an interdisciplinary perspective to collaborative problem solving. E-mail/Internet access required.

EDS 269B. Collaborative Strategies for Inclusive Practice Lab. 1 Unit
Prerequisite(s): CCTC Preliminary Multiple or Single Subject credential. Sacramento State graduate status or CCE/Open University enrollee.
Corequisite(s): EDS 269A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours field). Lab will be synthesis and application of course content in a setting for students who receive special education services. Students will verify experiences across the age-span and in inclusive settings, agencies, and/or other natural environments.
Credit/No Credit

EDS 273A. Instructional Strategies - Mild/Moderate. 2 Units
Prerequisite(s): Admittance into Mild/Moderate Credential or M.A. in Education programs.
Corequisite(s): EDS 273B.
Term Typically Offered: Fall, Spring

Development of knowledge, strategies, and skills in the areas of dyslexia, social skills and transition, and other specific learning challenges for individuals with mild/moderate disabilities.

EDS 273B. Instructional Strategies - Mild/Moderate - Lab. 1 Unit
Prerequisite(s): Admittance into Mild/Moderate Credential or M.A. in Education programs.
Corequisite(s): EDS 273A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 273A) in developing instructional strategies for the Mild/Moderate Credential Program area. Students are required to participate in class visitations, student tutoring, and interviews.
Credit/No Credit

EDS 285. Strategies to Enhance Academic Skills for Adults with Learning Disabilities. 3 Units
Term Typically Offered: Fall, Spring, Summer

For adults with learning disabilities (LD), compensatory learning strategies are vital tools for success in the post secondary academic arena and beyond. Learn to utilize the most effective teaching and learning strategies and review material and method for teaching adults with disabilities in reading, writing, spelling and mathematics. Topics include: subtypes of learning disabilities; historical as well as current teaching approaches; formal and informal assessment methods; cognitive function as a basis of understanding learning behaviors and learning strategies; and current technologies available to enhance learning opportunities. Learn how to empower adults with LD with the ability to adapt commonly used learning strategies to meet individual needs.

EDS 290. Issues in Early Childhood Education for Children with Disabilities. 3 Units
Term Typically Offered: Fall, Spring

Overview of current theories, research, policies and practices regarding educational services for children, from birth to 8, with disabilities and their families. Topics emphasized include typical/atypical development, interdisciplinary assessment, family involvement, community resources, program planning, mainstreaming, and collaborative case management. Requires observations/field study in settings serving young children with disabilities.

EDS 291A. Technology in Special Education. 2 Units
Prerequisite(s): Admittance to Special Education Program or instructor permission.
Corequisite(s): EDS 291B.
Term Typically Offered: Fall, Spring

Offers an overview of technology usage in special education. Topics covered include: current research; identification of needs of exceptional children that can be met through use of microcomputers; evaluation and prescription of software, hardware and assistive devices; writing computer-assisted instructional programs to meet special needs; time management, and the general implementation of microcomputers into a special education program.

EDS 291B. Technology in Special Education Lab. 1 Unit
Prerequisite(s): Admittance to Special Education Program or instructor permission.
Corequisite(s): EDS 291A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 291A) in technology usage with students who receive special education services.
Credit/No Credit

EDS 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects at graduate level especially for students capable of independent study.
Note: Departmental petition required.

Credit/No Credit

EDS 332. Assessment Center Laboratory for Multiple Subject Candidates. 2 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education instructor.
Corequisite(s): EDSP 420B or approved equivalent by assigned advisor or department chair.
Term Typically Offered: Fall, Spring

Individual support to guide multiple subject candidates through the process of completing and submitting the culminating PACT Teaching Event and completion of their electronic portfolio. The signature assignments, formative PACT assessments and summative PACT Teaching Event represent a working electronic portfolio embedded throughout the credential program, and the summative component will be polished and formally submitted at the conclusion of the EDS 332.
Credit/No Credit

EDS 412. Student Teaching: Moderate/Severe. 5 - 10 Units
Corequisite(s): EDSP 233. A total of 10 units is required.
Term Typically Offered: Fall, Spring

Students teaching in a cooperating LEA/District providing services for students receiving Moderate/Severe special education program services. Candidates must meet the criteria for student teaching to be accepted to this course.
Note: Approximately 320 hours are required to meet competencies.

Credit/No Credit

EDS 439. Early Fieldwork in School Psychology. 1 - 10 Units
Prerequisite(s): Satisfactory completion of first year coursework.
Term Typically Offered: Fall, Spring

Fieldwork experience is designed to allow students to explore roles in public schools and to gain experience in the organization and operation of schools, classrooms, and special services. The field placement allows students to work with pupils in public school settings that offer individual and group counseling; consultation with teachers, parents, and other school staff, and special accommodations for students with special needs. Students will work under the supervision of a credentialed school psychologist or school counselor at local school sites. A faculty supervisor from the School Psychology Training Program will work closely with students and field supervisor.
Note: May be repeated for credit.

Credit/No Credit

EDS 439A. Early Fieldwork in School Psychology. 1 - 10 Units
Prerequisite(s): Satisfactory completion of first year coursework. Graded: Credit / No Credit Units: 1.0 - 10.0
Term Typically Offered: Fall, Spring

Fieldwork experience is designed to allow students to explore roles in public schools and to gain experience in the organization and operation of schools, classrooms, and special services. The field placement allows students to work with pupils in public school settings that offer individual and group counseling; consultation with teachers, parents, and other school staff, and special accommodations for students with special needs. Students will work under the supervision of a credentialed school psychologist or school counselor at local school sites. A faculty supervisor from the School Psychology Training Program will work closely with students and field supervisor.
Note: May be repeated for credit.

Credit/No Credit

EDS 439B. Early Fieldwork in School Psychology. 1 - 10 Units
Prerequisite(s): Satisfactory completion of first year coursework and EDS 439A Graded: Credit / No Credit Units: 1.0 -10.0
Term Typically Offered: Fall, Spring

Advanced fieldwork experience providing the opportunity for students to engage in the following activities: individual and group counseling; consultation with teachers, parents, and other school staff, and assessment of students. Students will work under the supervision of a credentialed school psychologist. A faculty supervisor from the School Psychology Training Program will work with students and field supervisor.
Credit/No Credit

EDS 439C. Early Fieldwork in School Psychology. 1 - 10 Units
Prerequisite(s): Satisfactory completion of first year coursework and EDS 439B Graded: Credit / No Credit Units: 1.0 -10.0
Term Typically Offered: Fall, Spring

Ongoing fieldwork experience providing the opportunity for students to more fully develop their skills in: individual and group counseling; consultation with teachers, parents, and other school staff, and assessment of students. Students will work under the supervision of a credentialed school psychologist and a faculty supervisor from the School Psychology Training Program.
Credit/No Credit

EDS 440. Practicum in Individual Counseling/School Psychology. 3 Units
Prerequisite(s): Approval as a candidate in School Psychology program, approval of advisor, and department petition.
Term Typically Offered: Fall, Spring

Supervised practice in individual counseling.
Credit/No Credit

EDS 441. Internship in School Psychology. 3 - 15 Units
Prerequisite(s): Approval as a candidate in the School Psychology program, completion of courses required for the School Psychology Internship credential, approval of advisor, and department petition. May be repeated for credit.
Term Typically Offered: Fall, Spring

Directed field study for school psychologists. Supervised experiences are arranged in school psychology.
Credit/No Credit

EDS 441A. Internship in School Psychology. 3 - 15 Units
Prerequisite(s): Approval as a candidate in the School Psychology program, completion of courses required for the School Psychology Internship credential, approval of advisor, and department petition. Graded: Credit / No Credit Units: 3.0 - 15.0
Term Typically Offered: Fall, Spring

Directed field study for school psychologists. Supervised experiences are arranged in school psychology.
Credit/No Credit

EDS 441B. Internship in School Psychology. 3 - 15 Units
Prerequisite(s): EDS 441A Graded: Credit / No Credit Units: 3.0 -15.0
Term Typically Offered: Fall, Spring

Advanced field study for school psychologists interns. Supervised experiences are arranged in school psychology.
Credit/No Credit

EDS 441C. Internship in School Psychology. 3 - 15 Units
Prerequisite(s): EDS 441B Graded: Credit / No Credit Units: 3.0 - 15.0
Term Typically Offered: Fall, Spring

Third semester of advanced field study for school psychologist interns. Supervised experiences are arranged in school psychology.
Credit/No Credit

EDS 441D. Internship in School Psychology. 3 - 15 Units
Prerequisite(s): EDS 441C Graded: Credit/ No Credit Units: 3.0 - 15.0
Term Typically Offered: Fall, Spring

Fourth semester of advanced field study for school psychologists interns. Final semester in which candidates may accrue hours. Supervised experiences are arranged in school psychology.
Credit/No Credit

EDS 460. Practicum in Individual Counseling/VRC. 3 Units
Prerequisite(s): Approval as a candidate in the Vocational Rehabilitation program; approval of advisor, and department petition.
Term Typically Offered: Fall, Spring

Supervised practice in individual counseling.
Credit/No Credit

EDS 461. Field Study in Counseling/VRC. 3 - 15 Units
Prerequisite(s): Approval as a candidate in the Vocational Rehabilitation program, completion of core courses except EDS 560, EDS 561, or Comprehensive Examination (oral or written), approval of advisor, and department petition.
Term Typically Offered: Fall, Spring

Directed field study for rehabilitation counselors. Supervised experiences are arranged in rehabilitation counseling. Forty hours of experience required for each unit of credit.
Credit/No Credit

EDS 472E. Student Teaching: Serious Emotional Disturbance. 10 Units
Corequisite(s): EDS 277.
Term Typically Offered: Fall, Spring

Students will be placed in approved settings which serve students with serious emotional disturbance as a primary disability; be expected to demonstrate skills for instruction across content areas; interact with emotionally disturbed students using a combination of counseling and behavior management strategies; and consult with families, co-workers, mental health representatives and other in a collaborative style.
Credit/No Credit

EDS 530. Project In WDA I. 2 Units
Term Typically Offered: Fall, Spring

EDS 531. Project In WDA II. 4 Units
Term Typically Offered: Fall, Spring

EDS 540. Education Specialist Thesis: School Psychology. 4 - 6 Units
Term Typically Offered: Fall, Spring

Credit given upon successful completion of a thesis approved for the education specialist degree.
Note: Open only to the graduate students who have been advanced to candidacy for the education specialist degree. Number of units of credit is determined by the candidate's education specialist advisory committee.

Credit/No Credit

EDS 541. Master's Project: Education/School Psychology (Plan B). 4 - 6 Units
Prerequisite(s): Advanced to candidacy.
Term Typically Offered: Fall, Spring

Credit given upon successful completion of a project approved for the M.A. in Education/School Psychology option.

EDS 542. Education Specialist Project: School Psychology. 4 - 6 Units
Term Typically Offered: Fall, Spring

Credit given upon successful completion of a project approved for the Education Specialist degree.
Note: Open only to the graduate student who has been advanced to candidacy. Department petition is required. Number of units of credit is determined by the candidate's advisor.

Credit/No Credit

Certificate in Ethnic Studies

Units required for Certificate: 12

Program Description

The certificate in Ethnic Studies is designed to give students theoretical, foundational, historical, and pedagogical knowledge to effectively teach Ethnic Studies. Moreover, the certificate program will provide students with an understanding of the research that supports the effectiveness of an Ethnic Studies class and will focus on several groups (African-Americans; Asian-Americans, Chicano/s; Native Americans) that have historically underachieved in US schools.

Admission Requirements

In order to earn a Certificate in Ethnic Studies, a student must be admitted into the MA in Multicultural Education program.

Students will be allowed to obtain the certificate without completing the MA program.

Students will not be required to apply for the certificate if they only intend to receive a Master of Art's degree.

Program Requirements

Code	Title	Units
Required Courses (12 Units)		
EDBM 228	The Academic and Social Value of Ethnic Studies	3
EDTE 227	Seminar in Curriculum and Instruction, K-12	3
ETHN 203	Contemporary Ethnic Studies Issues	3
ETHN 204	Foundations & Theories	3
Total Units		12

Certificate in Maker Education

Program Description

The Certificate in Maker Education program engages students in a 12 credit program designed to develop critical knowledge of making, the maker movement, and Maker Education. We will examine the ideas and practices associated with educational reforms that emphasize making as an ethos of interest driven do-it-yourself (DIY) learning and culture. Students will investigate the knowledge, skills, and dispositions associated with 21st century skill development in makerspaces as formal and informal learning environments, and the development of "maker culture" in local, national, and international communities.

Admission Requirements

A 2.5 GPA in the last 60 semester or 90 quarter units completed in the undergraduate degree is required for admission. This is a graduate-level certificate program and students must maintain a grade point average of 2.5 or higher to remain in good standing in the program.

Program Requirements

Code	Title	Units
EDGR 270	Makerspaces	3
EDGR 272	Project-Based Learning and Assessment for Maker Educators	3
EDGR 273	Maker Theory and Practice	3
EDGR 274	Practicum for Maker Educators	3
Total Units		12

Note: Successful completion of the certificate requires students to receive a 2.5 or higher GPA in all courses.

Certificate of Competency in Educational Technology

Total units required for Certificate: 12

Program Description

A graduate student may earn a certificate in Educational Technology by completing four 3-unit courses. These courses provide the competencies needed by teachers, trainers, or curriculum specialists to integrate technology into the curriculum, scaffold its inclusion in instruction, and disseminate that knowledge via appropriate staff-development needs.

Minimum Grade Requirement

Minimum required GPA: 3.0 for all courses in the certificate program.

Program Requirements

Code	Title	Units
Required Courses (12 Units)		
Select one of the following options:		12
Option 1		
EDTE 232	Educational Applications of Computers	
EDTE 233	Teaching Problem-Solving with Educational Technology	
EDTE 234	Curriculum and Staff Development with Educational Technology	
EDTE 235	Enhancing Curriculum with Multimedia and the Web	
Option 2		
EDTE 283	Staff Development and Presentation Applications	
EDTE 284	Problem Solving and Project Development	
EDTE 280A	Fundamentals of Online Pedagogy & Instructional Design	
EDTE 280B	Instructional Design	
Total Units		12

Certificate of Competency in Mathematics Education

Total units required for Certificate: 12

Program Description

A graduate student may earn a Certificate in Mathematics Education by completing the following courses. Enrollment in the Master's program is not required provided that admission requirements are met, including having a teaching credential or being enrolled in a credential program.

Program Requirements

Code	Title	Units
Required Courses (12 Units)		
EDTE 220	Seminar in Mathematics Education	3
EDTE 221	Curriculum Development in Mathematics Education	3
EDTE 222	Teaching Mathematics in the Twenty-First Century	3
EDTE 228	Introduction to Ethnomathematics	3
Total Units		12

Certificate of Competency in Reading

Total units required for Certificate: 12

Program Description

A graduate student may earn a Reading Certificate (issued by CCTC) by completing the courses listed below. This certificate authorizes the holder to assess student reading and provide reading instruction in response to those assessments. Reading Certificate holders are also authorized to develop, implement, and adapt the reading content curriculum and assist classroom teachers in these areas. Holders of the Reading Certificate may perform the above services at one or more school sites at the grade levels authorized by their prerequisite teaching credential. Enrollment in the Master's program is not required provided that the following admission requirements are met.

Admission Requirements

- a valid California Basic Teaching Credential (e.g., Multiple Subject or Single Subject Credential);
- a minimum 3.0 grade point average in the last 60 units attempted;
- successful completion of a basic course in the Teaching of Reading from an accredited university; if reading methods course is older than seven years, must show evidence of:
- current staff development in Language and Literacy by participation in workshops, institutes, etc., (Candidates must show documentation); or
- passing the RICA test within the past seven years; and
- completion of the Reading/Language Arts Specialist Credential Application or Reading Certificate (available in Eureka Hall 203 and on the web (http://www.csus.edu/coe/).

Teachers must have three years of teaching experience before the Reading Certificate can be awarded.

Program Requirements

Code	Title	Units
Required Courses (12 Units)		
EDTE 200		3
EDTE 201		3
EDTE 203		3
EDTE 205		3
Total Units		12

Certificate of Competency in Teaching Reading to Adults

Total units required for Certificate: 15

Program Description

The Certificate in Teaching Reading to Adults (TRA Certificate) provides professional preparation and training in the theory and practice of teaching reading to adults. A combination of coursework in reading theory and pedagogy with teaching and/or tutoring experience provides

the competencies and skills necessary to teach reading to adults. The program is designed for graduate candidates who expect to teach in community college or adult education settings.

Eligibility Requirements

- Candidates must either be in a graduate degree program at Sacramento State or must apply for graduate admission to the University. Once admitted to Sacramento State, prospective TRA Certificate candidates must apply to the Certificate Coordinator for admission to the program.
- Candidates must take the Writing Placement for Graduate candidates (WPG) or take a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secure approval for a WPG waiver.
- International candidates must have a TOEFL score of 600 or higher (or a score of 250 or higher on the computerized TOEFL) and a score of 5 on the Test of Written English.

For further information, contact the Certificate Coordinator, Calaveras Hall 138, (916) 278-6197.

Minimum Grade Requirement

The reading certificate requires 15 units of coursework with a minimum GPA of 3.0.

Program Requirements

Code	Title	Units
Required Courses (15 Units)		
EDTE 205		3
EDTE 207		3
ENGL 215A	Reading/Vocabulary Acquisition	3
EDTE/ENGL 225C	Theoretical Issues in Adult Literacies	3
ENGL 410L	Internship in Teaching Adult Reading	3
Total Units		15

Doctorate in Education (Ed.D.)

Total units required for Doctorate: 60

Program Description

California legislation (SB 724) authored by Senator Jack Scott and signed into law in 2005 authorized the California State University to offer the doctorate (Ed.D.) in Educational Leadership. The Doctor of Education degree offered by the California State University shall be focused on preparing administrative leaders for California public elementary and secondary schools and community colleges and on the knowledge and skills needed by administrators to be effective leaders in California public schools and community colleges. The Doctor of Education degree offered by the California State University in partnership through with the California public elementary and secondary schools and community colleges shall participate substantively in program design, candidate recruitment and admissions, teaching, and program assessment and evaluation. This degree shall enable professionals to earn the degree while working full time.

The California State University, Sacramento doctoral program represents a collaborative effort between the Educational Leadership & Policy Studies Program and Department of Public Policy and Administration. This program provides an interdisciplinary program of study. It also represents a partnership with area public schools and community colleges to develop a meaningful course of study and graduate experience.

The program is planned to meet the needs of working professionals who are engaged in the profession of education. Accordingly, the program will incorporate a variety of innovative measures to facilitate student access. These consist of scheduling courses on a year-round basis, utilizing alternative course formats, including intensive, Friday evening, all-day Saturday, and “in-residence” summer seminars on-campus meeting times, and encouraging students to use their job-related problems as topics for research assignments. The majority of the program classes will be held on the campus of California State University, Sacramento. However, there may be sessions held with partner institutions in public schools and community colleges to host classes as appropriate.

The California State University, Sacramento doctoral program is organized as a cohort-based program. Groups of students admitted each year will take courses together. This creates several distinct advantages of group membership during graduate study which are intentionally fostered in the program:

- Cohorts offer support to candidates and provide opportunities for members to learn from one another.
- Cohorts establish professional ties that often last beyond the doctoral program itself; such networks are valuable in terms of continued professional support and growth.
- Fostering and monitoring candidates’ progress is enhanced in cohorts. The group carries with it the expectation that all but the occasional candidate will complete the program successfully, including such standard benchmarks as the qualifying examination, advancement to candidacy, and completion of the dissertation.
- Scheduling an outstanding program of doctoral study can be accomplished more readily for cohorts that have courses in common. Enrollments are predictable, and a course of study can be planned in advance in relation to the availability of highly qualified faculty.

Admission Requirements

The Ed.D. Program admits candidates who meet the academic requirements for the Ed.D. degree program and who possess personal qualities and professional experiences that suggest a strong potential for success as doctoral candidates and as educational leaders in pre K-12 or community colleges.

The Ed.D. Program requires the following of applicants for admission to the doctoral program:

- an earned baccalaureate degree and master’s degree or the equivalent from an accredited institution of higher education with a grade point average in upper division and graduate study of 3.0 or above;
- sufficient preparation and experience pertinent to educational leadership to benefit from the program;
- submission of Graduate Record Examination (GRE) scores- from the three sections of the General Test taken within five years of applying to the Ed.D. program;
- demonstrated educational leadership potential and skills including successful experience in school, postsecondary, community, and/or policy leadership;

- demonstrated academic excellence, problem-solving ability, and an interest in critically assessing and bringing about improvements within current educational policies and practices;
- three letters of recommendation attesting to the leadership ability and scholarship of the candidate;
- a written statement of purpose reflecting an understanding of the challenges facing the public schools or community colleges/ institutions of higher education in California;
- a personal interview; and
- a statement of support for the candidate's doctoral studies from his/her employer or, in cases where this is not provided, an indication of the candidate's plan for meeting the demands of the program and his/her professional responsibilities.

Meeting these minimum requirements qualifies an individual for admissions consideration but does not guarantee admission to the Program. Admission will be granted on a competitive basis.

In any one academic year, a limited number of students may be admitted on an exception basis without meeting one or more of the requirements established for the Ed.D. program. The number of exceptional admissions shall not exceed 15 percent of those students regularly admitted to the campus' Ed.D. program. The intent of this exception provision is to provide for students who demonstrate particular strength in the qualities and characteristics sought for public school or community college leadership and who, at the time of seeking admission to the Ed.D. program, do not meet all the specified requirements.

Admission Procedures

Applicants must complete a university application by the posted application deadline date for the term applying. *For more admissions information and application deadlines, please visit the Office of Graduate Studies* website *(*http://www.csus.edu/gradstudies/*)*. Prospective doctoral students must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application that can be accessed at Cal State Apply (https://www2.calstate.edu/apply/);
- one set of official transcripts from all colleges and universities attended, other than Sacramento State.

Applicants who file with the Office of Graduate Studies will receive a confirmation email, including a Sac State ID number and instructions to establish a SacLink Account. Prospective doctoral students must sign in to https://gradsup.webapps.csus.edu/ with their SacLink login to upload the following documents or forward them to the Ed.D. Program Office in the College of Education

- the Ed.D. program supplemental application;
- GRE results no older than 5 years from date of application;
- written statement of purpose;
- resume detailing education and professional experience;
- one set of transcripts, including Sacramento State;
- three letters of reference (forms attached to the supplemental application).

Unit Requirements

Each candidate will be required to successfully complete 60 semester units of coursework. Each of the first two years call for completion of 18 units during the regular academic year and 6 units during each summer session. The third year of the program calls for completion of the dissertation which will entail 12 units.

The Ed.D. program is designed for completion of the degree requirements within three (3) calendar years (two semesters per academic year and summer study). The California State University, Sacramento Educational Leadership doctoral program is designed to allow completion of degree requirements within three (3) calendar years and four and a half calendar years (four years and one semester) will normally be acceptable.

Total time to qualifying examination and advancement to candidacy will not exceed three (3) years unless there are mitigating circumstances and the Ed.D. Program faculty has approved the extension; such extension normally may not exceed one year.

Total registered time is not expected to exceed five (5) years, and extension beyond this period requires approval by the Ed.D. Program faculty.

Extension of the period for degree completion beyond the period of five (5) years is normally granted to students in good academic standing, not exceed a two (2) year period. Continuation each term after the extension is granted requires determination of satisfactory progress by the Ed.D. Program faculty.

Extension of the period by more than two years can be granted only under special circumstances and based upon criteria established by the Ed.D. Program faculty. Such extension requires (a) special approval in accordance with the procedures established by the campus and (b) evidence that the student has maintained currency in the field, including demonstrated currency in literature, coursework, and research.

Satisfactory Progress Toward Degree

Each Ed.D. student is expected to maintain satisfactory progress toward the approved academic objectives as defined by the Ed.D. Program faculty and the University. The student is expected to make satisfactory progress in accordance with the Ed.D. cohort structure and program of study through the time of Advancement to Candidacy. This requires that the student complete all courses and examinations satisfactorily and Advance to Candidacy within the period for each specified by the Ed.D. Program faculty. Satisfactory progress further requires that the student pass all required examinations within two attempts.

The normal expectation is that students will attend and participate in all required program components. Students who need to make-up assignments are normally given the opportunity to do so. In the event that a student's lack of attendance/participation would cause him/her to fail to maintain a grade point average of 3.0, the student would be notified and counseled regarding requirements for satisfactory progress toward the degree. Systemwide criteria of satisfactory academic progress are provided in Appendix 5, Title 5 of California Code of Regulations: The Doctor of Education Degree §40512(c).

Students who need to stop-out are typically provided two options. One is to take extra coursework to make up courses missed and return to their original cohort. The second is to join a later cohort that, at the time they return, is taking the classes that they missed.

Criteria for Continuation in the Program

Students must maintain at least a 3.0 cumulative grade point average in the program and not have a grade point average below 3.0 in any two successive terms to be considered in good academic standing. They

must also meet all the requirements of graduate students outlined in the University Catalog.

Students who fall below a 3.0 grade point average in any one term will be placed on academic probation and notified of this in writing. Students who fail to make satisfactory academic progress may be officially disqualified from the program in writing in accordance with policies established by the campus and based upon the recommendation of the Ed.D. Program faculty.

To ensure that a decision to disqualify a student because of unsatisfactory academic progress is just, basic due process requirements will be met. Faculty will conduct a thorough review and consultation and will provide a written recommendation by the Ed.D. Program Director to the Graduate Division. The student may appeal the decision. A student who has been disqualified from the program will not be allowed to continue in the Ed.D. Program, enroll in doctoral level courses in the program, or register again in the Ed.D. Program without a formal application and re-admission to the University.

Program Requirements

Code	Title	Units
Doctoral Core Requirements (48 Units)		
Year 1		
EDD 600	Transformational Leadership [1]	3
EDD 602	Policy and Practice for Educational Leaders I [1]	3
EDD 604	Introduction to Educational Research [1]	3
EDD 605	Qualitative Research Methods [1]	3
EDD 607	Community and Communication in Educational Leadership [1]	3
EDD 608	Diversity and Equity in Complex Organizations [1]	3
Summer Session		
Year 1		
EDD 609	Human Resource Management for Educational Leaders [1]	3
EDD 610	Curriculum and Instruction Issues for Educational Leaders [1]	3
Year 2		
EDD 601	Organizational Leadership [1]	3
EDD 603	Policy and Practice for Educational Leaders II [1]	3
EDD 606	Quantitative Research Methods [1]	3
EDD 611	Legal Issues for Educational Leaders [1]	2
EDD 612	Student Services in Education [1]	2
EDD 613	Finance and Budget for Educational Leaders [1]	2
EDD 614	Issues in Educational Leadership: Synthesis and Application [1]	3
Summer Session		
Year 2		
EDD 615	Dissertation Proposal Seminar	6
Culminating Requirements (12 Units) [2]		
EDD 616A	Dissertation I - Seminar	3
EDD 616B	Dissertation I - Research and Writing	3
EDD 617A	Dissertation II - Seminar	3
EDD 617B	Dissertation II - Research and Writing	3
Total Units		60

1. Admission into the Ed.D. in Educational Leadership Program and instructor permission.
2. Passage of Qualifying Examination before the start of the dissertation and successful dissertation proposal defense.

Ed.S. in School Psychology

Total units required for Ed.S.: 96-107

Program Description

The Specialist in Education, School Psychology (Ed.S.) is an advanced degree that requires students to have completed both the MA in Education (School Psychology) or its equivalent, and the Pupil Personnel Services School Psychology Endorsement Credential. Completion of the Ed.S. requires additional coursework (beyond the MA and Credential requirements) focused on identifying and addressing school-related issues that arise during school psychology practice. The School Psychology program at CSUS is approved as a Specialist level program by the National Association of School Psychologists.

Note: If students are to graduate under the provisions of this catalog, they must maintain continuous enrollment from the date of classification to the date of graduation. Students who are planning to be absent for more than one semester must file a Leave of Absence request and have it approved prior to the absence.

Admission Requirements

Admission as a classified graduate student in the Specialist in Education (Ed.S.) - School Psychology, requires:

- a baccalaureate degree;
- a minimum 3.0 overall grade point average (if GPA is below 3.0, student may be accepted conditionally);
- proficiency in written English composition as demonstrated by either passing the Sacramento State Writing Placement for Juniors exam or equivalent, or passing ENGL 109W (or its equivalent) with a grade of C or better.
- evidence of registration for or CBEST passing score;
- provision Graduate Record Exam (GRE) scores; and
- Completion of the following prerequisite courses or their equivalents (contact a school psychology advisor for more information on equivalent experiences):

Code	Title	Units
An Introductory Statistics course		3
EDUC 155	Introduction to Counseling	3
EDUC 156	Power, Privilege and Self Identity in Counseling	3
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab [1]	3
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum [2]	3
PSYC 117	Drugs and Behavior	3
PSYC 168	Abnormal Psychology	3

[1] EDUC 100A and EDUC 100B must be taken concurrently.

[2] One (1) year of experience as a teacher in preschool through grade 12 settings, or two (2) years experience as a teacher's aide or substitute teacher in preschool through grade 12 settings may be used as an equivalency (contact a school psychology advisor for more information on equivalent experiences).

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Admission Procedures

All students must file the following with the Sacramento State Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application via Cal State Apply for admission; and
- one set of official transcripts from all colleges and universities attended, *other than Sacramento State.*

For more admissions information and application deadlines, please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*).*

At the same time, each applicant must complete a separate application for admission to the School Psychology Program:

- the program's application is available online (http://www.csus.edu/coe/apply/graduate.html);
- two letters of reference (references will submit letters online);
- one set of transcripts;
- evidence of experience working or volunteering in schools and/or working with youth;
- evidence of strong written communication skills (obtained via writing samples);
- evidence of strong oral communication skills (obtained via an interview with a current school psychology graduate student, practicing school psychologist, and school psychology faculty member).

Department applications are due by February for admission the following Fall Semester. Applications are only accepted and processed once per year, during spring semester for admission the following fall.

Units required for the Ed.S.: 96-107
Minimum Cumulative GPA: 3.0. No single course in which a student receives a grade below 'B-' will be counted as credit toward the degree unless the student has petitioned for acceptance of the course, and the petition has been accepted and approved by the School Psychology faculty.

Advancement to Candidacy

Students must advancement to candidacy prior to enrolling in EDS 540 or EDS 542. Advancement to Candidacy forms are available in the Department office and the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a faculty advisor and approved by the Graduate Coordinator. The completed form is then returned to the Office of Graduate Studies for approval. Please note deadline dates posted by the Office of Graduate Studies for submission of this form. For more information on Advancement to Candidacy refer to MA in Education (School Psychology).

Program Requirements

First Semester		**Units**
EDC 210	Multicultural/Ethnic Counseling	3
EDS 201	Legal Aspects of Special Education	3
EDS 231	Group Process in School Psychology	3
EDS 245	Psychology In The Schools	3
EDS 248	Human Development and Learning	3
	Units	15
Second Semester		
EDC 250	Education Research	3
EDS 241	Counseling and Psychotherapy for School Psychologists	3
EDS 242A	Cognitive Assessment	3
EDS 242B	Cognitive Assessment Lab	4
EDS 440	Practicum in Individual Counseling/School Psychology	3
	Units	16
Third Semester		
EDS 240	Functional Assessment of Behavior	3
EDS 243A	Assessment Practicum A	3
EDS 244	Social, Emotional and Behavioral Assessment	3
EDS 246A	Preventive Academic Interventions	3
EDS 439A	Early Fieldwork in School Psychology	2 - 5
	Units	14-17
Fourth Semester		
EDS 243B	Assessment Practicum	3
EDS 246B	Preventive Mental Health Interventions	3
EDS 247	Assessment of Special Needs	3
EDS 439B	Early Fieldwork in School Psychology	2 - 5
EDS 249 or EDS 541	Special Seminar: School Psychology [1] or Master's Project: Education/School Psychology (Plan B)	3 - 6
	Units	14-20
Fifth Semester		
EDS 239	Education Specialist Seminar	3
EDS 441A	Internship in School Psychology	15
	Units	18
Sixth Semester		
EDS 441B	Internship in School Psychology	15
EDS 540 or EDS 542	Education Specialist Thesis: School Psychology or Education Specialist Project: School Psychology	4 - 6
	Units	19-21
	Total Units	96-107

[1] For students who were awarded an appropriate master's degree before beginning the Ed.S. in School Psychology Program, a faculty approved 3 unit elective will be substituted for EDS 249 or EDS 541.

MA in Education (Behavioral Sciences Gender Equity Studies)

Total units required for MA: 30

Program Description

The Master of Arts in Education with a Concentration in Behavioral Sciences Gender Equity Studies, offers

1. the opportunity to take courses that focus on the role of women from the points of view of the various disciplines from other University departments;
2. the opportunity to take courses that focus on the educational needs of ethnic and older women;
3. the opportunity to focus on the developmental needs of the young for a nonsexist education; and
4. the possibility for internships with state and local governments and school districts.

The program offers an emphasis on women as agents of social change and flexible course selection to emphasize research interests in women's issues.

Admission Requirements

Admission as a classified graduate student requires:

- a baccalaureate degree;
- two years of teaching experience or its functional equivalent;
- a minimum 2.5 GPA in the last 60 units;
- proficiency in written English composition as demonstrated by either passing the Sacramento State Writing Placement for Juniors exam or equivalent, or enrolling in ENGL 109W passing with a grade of C or better; and
- an interview with a student/practicing administrator/faculty team; interviews will be scheduled at the close of the application period, (the Graduate Record Exam (GRE) or Miller Analogies Test scores are NOT required; however, these test scores may be included with the admission application).

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Admission Procedures

Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, *other than Sacramento State.*

For more admissions information and application deadlines, please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*)*.

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 79) section of the University Catalog.

Specific Additional Admission Requirements

General Admission Requirements/Procedures for MA in Education apply, plus:

- a minimum 3.0 GPA in the last 60 units attempted;
- an approved statement of purpose that addresses:
  a. why the applicant wants to enter this particular program;
  b. career objectives which will coincide with program goals;
- evidence of completion of a previous course(s) with 'B' or better grade (graduate or undergraduate level) which focuses on the area of Women's Studies and/or Gender Studies; and an oral interview.

Specific Admission Procedures

On a space available basis students may be admitted after the deadline to the following programs: uncohorted Curriculum and Instruction, Gender Equity Studies, and Language and Literacy. Please contact the appropriate program coordinator.

All prospective graduate students, including Sacramento State graduates, must file the following with the Sacramento State Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for graduate admission; and
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State.*

For a more admissions and application deadlines, please email the Office of Graduate and Professional Studies in Education *(*coe-grad@csus.edu*)*

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum cumulative GPA: 3.0; no units with a grade lower than 'C' may apply toward the degree.

General Advancement to Candidacy Procedures

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission;
- completed at least 12 units of courses in the graduate program (see Degree Requirements) with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available online through the Office of Graduate Studies website (http://www.csus.edu/gradstudies/forms/). The student fills out the form after planning a degree program in consultation with the appropriate M.A. Program Coordinator. The form must be submitted to the Teacher Education Department Office and the Office of Graduate Studies for approval.

Approved Master's Thesis/Project Format: *American Psychological Association* **(APA) - Latest edition.** Before beginning a 500-level course

to complete a Project, Action Research, or Thesis, students are required to have an approved Culminating Experience Proposal on file in the Department office. The reservation form for a Culminating Experience Chair for fall semester is due March 10; for spring the form is due October 15. **Note:** A completed Proposal requires the approval of the Culminating Experience Chair as well as Human Subjects approval. The proposal and accompanying Protection of Human Subject forms must be reviewed by the EDTE Graduate Coordinator and the Department or University Human Subjects Review Committee.

Enrollment in the 500 series Culminating Experience is for one semester. The expectation is that students will complete the thesis/project during the 500-level course. One semester of continuous enrollment is allowed if the Culminating Experience Chair deems a reasonable amount of progress has been made as per the timeline in the Proposal and assigns a grade of 'RP' for the 500 series. If students fail to make adequate progress according to their Proposal timeline and there are no mitigating circumstances (e.g., illness), a grade of 'no credit' is given, and the student must re-enroll in the appropriate 500 series Culminating Experience.

Note: The Department of Teacher Education requires each student download the *Department of Teacher Education Graduate Student Handbook*, available on the Department website (http://www.csus.edu/coe/academics/credentials/handbooks/).

Program Requirements

Code	Title	Units
Required Courses (15 Units)		
EDUC 165	Sex Role Stereotyping in American Education	3
EDTE 250		3
EDTE 251	Education for a Democratic, Pluralistic Society	3
EDTE 266	Gender Constructs in Education	3
EDTE 290	Seminar: Preparation of Master's Thesis/Project	3
Electives (12 Units)		
Select 12 units of electives [1]		12
Culminating Requirement (3 Units)		
EDTE 506	Culminating Experience: Behavioral Sciences - Women's Studies [2]	3
Total Units		30

[1] Select 12 units of elective courses in consultation with the Behavioral Sciences Gender Equity Studies Program Coordinator. The units must be selected from: Gender Equity core courses; Women's Studies cross-listed courses; or other courses specifically approved by the Behavioral Sciences Gender Equity Studies Program Coordinator. At least six of the elective units must be at the 200-level.

[2] Credit is given upon completion of a thesis, project, or other approved culminating experience. For the Master of Arts in Education (Behavioral Sciences Gender Equity Studies). Open only to the graduate student who has been advanced to candidacy for the master's degree and has secured the permission of his/her Culminating Experience Chair and the Behavioral Sciences Gender Equity Studies Program Coordinator. All forms may be obtained on the web (http://csus.edu/coe/).

MA in Education (Curriculum and Instruction)

Total units required for MA: 30

Program Description

The Master of Arts in Education (Curriculum and Instruction) is designed to provide professional and specialized preparation for the candidate interested in acquiring knowledge and skills essential for the design and development of curriculum and related instructional practices. The program provides a variety of options for educators to develop and enhance expertise in a particular field of interest related to elementary, middle school, and secondary education. Each course is designed to produce an ideal blend of theory, research and practice in modern, diverse educational settings. The program is committed to exploring critical intellectual questions of contemporary education. Program instructors bring varied levels of expertise with advanced degrees from major research universities and classroom experience in K-12 and higher education settings.

Students may apply to either a stateside traditional cohort or a College of Continuing Education online cohort. The traditional cohort will meet face-to-face. The online cohort will meet approximately 25% synchronously (real time) and 75% asynchronously (your own schedule within a given timeframe). During the synchronous sessions students will participate in community development, collaboration, and communications that will allow them to get to know their peers and instructors and facilitate instructional delivery suited to an online format. During asynchronous sessions students will build on learning experiences acquired in the synchronous sessions while deepening the knowledge, skills and dispositions that emerge with reflective, 'on your own schedule' participation. Students in the online cohort will complete six units of coursework during the summer term as part of the condensed format.

Admission Requirements

Admission as a classified graduate student requires:

- a baccalaureate degree;
- a minimum 3.0 GPA in the last 60 units;
- proficiency in written English composition as demonstrated by either passing the Sacramento State Writing Placement for Juniors exam or equivalent, or enrolling in ENGL 109W passing with a grade of C or better;
- passing score on the California Basic Educational Skills Test (CBEST); and
- an interview with a program administrator/faculty team; interviews will be scheduled at the close of the application period.

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Admission Procedures

The stateside traditional program admits a cohort of students in fall only. The online program offered through the College of Continuing Education admits a cohort of students in fall and/or spring. Prospective graduate students, including Sacramento State graduates, must file the

following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, *other than Sacramento State.*

For more admissions information and application deadlines, please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*)*.

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 79) section of the University Catalog.

Specific Additional Admission Requirements

General Admission Requirements/Procedures for MA in Graduate & Professional Studies in Education (GPSE) apply, plus:

- supplemental application for the MA in Curriculum & Instruction, including a complete set of unofficial transcripts, an essay based on a prompt that will be provided to you, and a statement of purpose; and
- two years of teaching experience or its functional equivalent; or program coordinator approval.

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified status. Any deficiencies will be noted on a written response to the student's admission application.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum cumulative GPA: 3.0; no units with a grade lower than 'C' may apply toward the degree.

General Advancement to Candidacy Procedures

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission;
- completed at least 12 units of courses in the graduate program (see Degree Requirements) with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available online through the Office of Graduate Studies website (http://www.csus.edu/gradstudies/forms/). The student fills out the form after planning a degree program in consultation with the appropriate M.A. Program Coordinator. The form must be submitted online with the Office of Graduate Studies for approval.

Approved Culminating Experience Format:*American Psychological Association***(APA) - Latest edition.** Before beginning a 500-level course, students must submit a reservation form for a Culminating Experience to the program coordinator for approval.

Enrollment in the 500 series Culminating Experience is for one semester. The expectation is that students will complete the culminating experience during the 500-level course. One semester of continuous enrollment is allowed if the Culminating Experience advisor deems a reasonable amount of progress has been made and assigns a grade of 'RP' for the 500 series. If students fail to make adequate progress and there are no mitigating circumstances (e.g., illness), a grade of 'no credit' is given, and the student must re-enroll in the appropriate 500 series Culminating Experience.

Program Requirements

Code	Title	Units
Required Courses (21 Units)		
CORE COURSES (15 Units)		
EDBM 250	Education Research	3
EDCI 227	Transforming Curriculum in K-12	3
EDCI 251	Power in Education	3
EDCI 252A	Inquiry & Practice in Education	3
EDCI 253A	Action & Analysis in Education	3
Concentration Courses (6 Units)		
EDCI 252B	Inquiry & Practice Field Experience in Education	3
EDCI 253B	Action & Analysis Field Experience in Education	3
Other Course Requirements (6 Units)		
Select 6 units of electives [1]		6
Culminating Requirement (3 Units)		
EDCI 505	Culminating Experience: Curriculum and Instruction [2]	3
Total Units		30

[1] Six elective units in Curriculum and Instruction coursework are to be selected by the student in consultation with the Curriculum and Instruction Program Coordinator. Students may focus their elective units in a program of their interest or select courses from various programs. At least three of the elective units must be at the 200 level. Examples of Curriculum and Instruction elective programs include: Educational Technology, Mathematics Education, Language and Literacy, Multicultural Education, Gender Equity, BTSA or other pre-approved induction courses.
With C & I Program Coordinator approval, program courses may include **one** of the following:
- 6 transfer elective units (must not be independent study or supervision units)
- 6 units of academic credit earned through Continuing Education

[2] Open only to the graduate student who has been advanced to candidacy for the master's degree and has secured the permission of his/her Culminating Experience Chair and the Curriculum and Instruction Program Coordinator. All forms may be obtained on the Office of Graduate STUDIES (OGS) website.
Credit is given upon completion of a university-approved project consisting of an ePortfolio that includes an action research report, supporting materials such as curriculum and/or student work, and a poster presentation evaluated by a faculty committee. With prior approval a master's thesis may be substituted for the action research report.

MA in Education (Educational Leadership)

Total units required for MA: 33

Program Description

Educational Leadership and Policy Studies aims to develop P-12 educational leaders from diverse backgrounds who will positively impact P-12 educational settings. The program specifically focuses on cultivating leaders who promote leaders, equity, social justice and achievement for all students. Educational Leadership and Policy Studies seeks to prepare transformational leaders with the capacity to effectively facilitate and manage change.

Admission Requirements

Admission as a classified graduate student requires:

- a baccalaureate degree;
- two years of teaching experience or its functional equivalent;
- a minimum 2.5 GPA in the last 60 units;
- proficiency in written English composition as demonstrated by either passing the Sacramento State Writing Placement for Juniors exam or equivalent, or enrolling in ENGL 109W passing with a grade of C or better; and
- an interview with a student/practicing administrator/faculty team; interviews will be scheduled at the close of the application period, (the Graduate Record Exam (GRE) or Miller Analogies Test scores are NOT required; however, these test scores may be included with the admission application).

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Admission Procedures

Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, *other than Sacramento State.*

For more admissions information and application deadlines, please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*)*.

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 79) section of the University Catalog.

Specific Additional Admission Requirements

Admission as a classified graduate student in **P-12 School Leadership and Policy Studies** requires:

- Completion of a baccalaureate degree at the time of application;
- GPA in the last 60 units of a 2.5 or better;
- A minimum of 4 years teaching experience in a P-12 educational setting;
- Completion, and successful review, of CSU Apply and program Supplemental Application
- Successful interview with faculty, demonstrating:
  - Preparation for graduate level study
  - Some leadership experience
  - Familiarity with current issues in education
  - Knowledge of conflict resolution and negotiation skills
  - Knowledge of P-12 education as a field
  - Entry level understanding of ethical leadership
  - Vision for P-12 education

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Specific Additional Admission Procedures

Each applicant must forward the following to the Educational Leadership and Policy Studies Department in the College of Education:

- the Educational Leadership and Policy Studies application for admission (available in Eureka Hall 437);
- two letters of reference (forms attached to application packet); and
- one set of transcripts, *including Sacramento State* (these need not be official).

Approximately two weeks after the deadline for submission of application materials to the Department, each applicant will be scheduled for an interview. Approximately two weeks after all applicants have been interviewed, a decision regarding admission will be mailed to each applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0. Only units with a grade "C" or better may be counted.

Notes:

- This graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the "Graduate Studies" and the "Educational Leadership and Policy Studies Department" sections of this catalog.
- All work must be completed within a 7-year period
- 30 units required for the MA, including at least 21 units in approved Educational Leadership courses. Up to six units, including extension credit, can be transferred from another university (if current and not used toward another degree); a minimum of 21 units must be taken in residence

Advancement to Candidacy

Each student working toward a Master's degree must file an application for Advancement to Candidacy for the degree; the application is a form on which the student indicates a proposed program of graduate study. The student must be advanced to candidacy the semester prior to enrolling in EDLP 500A. The procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the Educational Leadership and Policy Studies graduate program with a minimum 3.0 GPA;
- obtained advisor's preliminary approval of thesis or project proposal; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to candidacy forms are available on the Office of Graduate Studies website or the Educational Leadership and Policy Studies Department Office. The student fills out the form after planning a degree program in consultation with his/her Educational Leadership faculty advisor. The completed form is returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Graduate Core Requirements (24 Units)		
EDLP 200	Diversity and Equity in Educational Leadership [1]	3
EDLP 201	Foundations of Educational Leadership [1]	3
EDLP 202	School Law and Ethics of Educational Leadership,Education Law and Ethics of Educational Leadership [3]	3
EDLP 203	Foundations of Educational Leadership,School Finance [2]	3
EDLP 205 [2]		3
EDLP 209 [3]		3
EDLP 495A	Field Study in Educational Leadership	3
EDLP 250	Education Research [1]	3
Culminating Requirement [5]		**6**
EDLP 230	Master of Arts Thesis/Project Seminar [4]	
EDLP 500A	Master of Arts Thesis/Project [4,6]	
Total Units		30

1. To be taken fall semester.
2. To be taken spring semester.
3. To be taken in summer session.
4. To be taken 3rd semester.
5. **Thesis/Projects.** Students must file a Master's Thesis/Project Petition in the Department office one semester in advance and must have advanced to candidacy the semester prior to enrolling in thesis/project. EDLP 500A and EDLP 230 can not be taken in the same semester unless approved by the student's advisor and Graduate Coordinator or Department Chair. EDLP 500A and EDLP 500B can not be taken in the same semester unless approved by the student's advisor and Graduate Coordinator or Department Chair. Students needing additional time may enroll in subsequent semesters in EDLP 299T with approval of their advisor and Department Chair.
6. In order to be assured that faculty thesis/project advisors will be available, students must file the thesis/project petition with proposal in the Department office in advance of the semester of enrollment in EDLP 500A, EDLP 500B or EDLP 299T.

MA in Education (Educational Technology)

Total units required for MA: 30
Minimum required GPA: 3.0; no units with a grade lower than 'B' may apply

Program Description

The Master of Arts in Educational Technology (iMET) is a unique fully online program which has 2-3 optional face-to-face program and class meetings each semester. It is a rigorous 24 month program focusing on a full-range of instructional design and academic technology knowledge, skills, and dispositions. Instruction is centered on the learner and on what is required of teachers or trainers in today's technologically-rich learning environment. Coursework is project-oriented, utilizing eportfolios focusing on reflective learning practices and review by peers and colleagues.

The iMET program is designed to support students who want to develop their understanding of learning with technology and advance their ability to teach and design instruction involving the use of technology. Students will be able to design, create, present and evaluate instruction and learning for various types of education environments including for private industry and K-12 and higher education environments. Coursework focuses on learning theories, instructional design models, effective instruction, assessment, educational technology, multimedia tools and strategies, research and scholarship, leadership, project management, professional development, and socio-cultural aspects in education. Students focus on developing their Culminating Experience project connecting content learned throughout the program courses with their final project. Guidance is provided by advisors through courses on an individual basis connecting students with experienced practitioners. This program is currently offered only in cohort groups. Check with the Department (online (https://www.csus.edu/college/education/masters-programs/educational-technology.html) or (916) 278-6155) for the next start date.

Admission Requirements

Admission as a classified graduate student requires:

- a baccalaureate degree;
- a minimum 2.5 GPA in the last 60 units;
- proficiency in written English composition as by meeting the requirements set by the University Office of Graduate Studies;
- international students must meet Office of Graduate Studies (OGS) requirements for International students, which are available on the OGS website (https://www.csus.edu/graduate-studies/).

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Admission Procedures

Information to apply for prospective graduate students is available on the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/) (916) 278-6470, which will include the following

1. online application procedures for admission
2. information to apply to a Sacramento State graduate program

3. specific program application procedures in addition to apply to a graduate program at Sacramento State are available on the College of Education Department of Graduate and Professional Studies website
4. To be admitted to a College of Education graduate program both #2 and #3 above must be complete, meeting the general admission requirements of the University and also the specific program admission requirements in the College of Education
   a. *For more admissions information and application deadlines, please visit the Office of Graduate Studies website and the College of Education website.*
   b. The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (http://catalog.csus.edu/graduate-degree-requirements/)section of the University Catalog.

Specific Additional Admission Requirements

General Admission Requirements/Procedures for MA in Education apply, plus:

- a minimum 3.0 overall GPA in the last 60 units attempted; potentially waived on approval of the Program Coordinator and Department Chair
- applicants should have an intermediate level of educational technology knowledge and proficiency
- an approved statement of purpose that addresses:
  a. why the applicant wants to enter this particular program which would include:
     i. an example of a successful experience you have had in using technology for learning or
     ii. an example of a work experience where you helped lead or support others in using technology for teaching or learning, including a description of your level of involvement, and
     iii. what you believe to be optimal ways that technology can successfully be used for teaching or learning
  b. career objectives
     i. applicants must be proficient in using the Internet and have accessible Internet access to meet the requirements of a fully online program

Minimum Units and Grade Requirement for the Degree

- Units required for the MA: 30
- Minimum cumulative GPA: 3.0; no units with a grade lower than 'B' may apply toward the degree

Program Costs

- Information on Tuition Fees and Campus Fees is made available on the University website.
- **Note:** There is an **additional Distance Learning Technology Fee of $40 per unit** for the iMET Program courses.

General Advancement to Candidacy Procedures

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission;
- completed at least 12 units of courses in the graduate program (see Degree Requirements) with a minimum 3.0 GPA; and
- fulfilled the "Graduate Writing Assessment Requirement (GWAR)."
- Requirements for the GWAR are available on the Office of Graduate Studies website (https://www.csus.edu/graduate-studies/). (https://www.csus.edu/graduate-studies/)
  - Information to complete the Advancement to Candidacy forms is available online and will be provided through the Program Coordinator. The Advancement to Candidacy entails the degree program in consultation with the appropriate M.A. Program Coordinator. A completed form must be submitted to the Program and Department for approval and to the Office of Graduate Studies for approval.

Approved Master's Thesis/Project Format: *American Psychological Association* **(APA) - Latest edition.** Before beginning the 500-level course to complete a Project, Action Research, or Thesis, students are required to have an approved Culminating Experience Proposal on file in the Department office. Dates for completing the form are announced by the Program Coordinator.

Note: A completed Proposal requires the approval of the Culminating Experience Chair as well as Human Subjects approval if needed. The proposal and accompanying Protection of Human Subject forms must be reviewed by the EDTE Graduate Coordinator and approved by the Department and University Human Subjects Review Committee.

Enrollment in the 500 series Culminating Experience is for one semester. The expectation is that students will complete the thesis/project during the 500-level course. Continuous enrollment is allowed if the Culminating Experience Chair deems a reasonable amount of progress has been made as per the timeline in the Proposal and assigns a grade of 'RP' for the 500 series. If students fail to make adequate progress according to their Proposal timeline, a grade of 'no credit' is given, and the student must re-enroll in the appropriate 500 series Culminating Experience.

Program Requirements

Code	Title	Units
Required Courses (27 Units)		
EDTE 250I	Educational Research for IMET [1]	3
EDTE 251I	Education in Democratic, Pluralistic Society for Educational Technology [1]	3
EDTE 280A	Fundamentals of Online Pedagogy & Instructional Design [1]	3
EDTE 280B	Instructional Design [1]	3
EDTE 283	Staff Development and Presentation Applications [1]	3
EDTE 284	Problem Solving and Project Development [1]	3
EDTE 286	Special Topics in Educational Technology [1]	3
EDGR 287A	Seminar in Culminating Experience Exploration and Design	1
EDGR 287B	Seminar in Culminating Experience Development and Proposal	2
EDTE 298	Capstone [1]	3
Culminating Requirement (3 Units)		
EDTE 507	Culminating Experience: Educational Technology [2]	3
Total Units		30

[1] These courses must be taken as part of the Educational Technology cohort. The Educational Technology coursework is integrated into these courses. Requires acceptance into Master of Arts (Educational Technology); **not** open to students who have not been admitted to the program.

[2] Credit is given upon completion of a thesis, project or other approved culminating experience for the Master of Arts in Education (Educational Technology). Open only to the graduate student who has been advanced to candidacy for the master's degree and has secured the permission of the Educational Technology Program Coordinator.

MA in Education (Higher Education Leadership)

Total units required for MA: 30

Program Description

What makes an effective educational leader? What characteristics and traits are predictive of successful careers in leadership? Does a leader have to be employed in a management position to provide leadership? How do leaders 'do more with less' in lean times? What management and leadership skills are necessary to effectively operate today's schools, colleges and universities?

Education in California continues to face uncertainties; resources continue to dwindle while the task of educating today's generations for tomorrow grows ever more important and complex every day. The challenges have likely never been greater. Effective -- not just 'good' -- leadership at all levels of education - public, private and higher education -- has probably never been more important.

The programs in Educational Leadership are designed to meet a variety of needs in the field. The programs are oriented toward an interdisciplinary approach to the study of school leadership, offering students opportunities to apply theory to the practice of educational leadership.

The mission of Educational Leadership and Policy Studies is to develop educational leaders from diverse backgrounds who will positively impact the improvement of educational institutions and environments - from pre-K through university and professional levels. These leaders will:

- be visionary change agents;
- create collaborative learning communities;
- engage in reflective practice;
- ensure diversity and equity;
- implement research-based practices and site-based best practices; and
- build capacity through leadership development.

EDLP program graduates serve in a broad variety of leadership and management positions throughout the region and the country. Some have chosen to pursue doctoral studies in Educational Leadership after completing their Master's level studies and have gained critical experience in leadership. All Educational Leadership programs are organized to be cohort-based. Groups of students admitted each application cycle will take all of their courses together. Enrollments are predictable, and a course of study can be planned in advance in relation to the availability of highly qualified faculty. Cohorts provide students a foundation from which to build important professional support networks with their classmates/colleagues, while facilitating collaborative and cooperative learning experiences throughout the program and into their careers.

A significant dimension of all of the programs in Educational Leadership is an interest in, and commitment to, the full development of student potential and capability. Coursework, advising, and field experiences are carefully orchestrated to ensure a full range of faculty support for student achievement. The student, as a responsible autonomous agent, is expected to assume the role of partner in this effort.

EDLP course offerings in all cohorts are hybrid, meaning that some portion of course instruction is delivered online, to maximize access and opportunity.

Courses in the MA in Education: Higher Education Leadership are delivered using both hybrid instructional delivery, and executive scheduling wherein students attend face-to-face class session on Friday nights and Saturdays throughout each semester.

Admission Requirements

Admission as a classified graduate student in Higher Education Leadership requires:

- Completion, and successful review, of CSU Mentor and program Supplemental application
- Successful interview with faculty, demonstrating
  - Preparation for graduate level study
  - Professional experience at any level in higher education
  - Some leadership experience
  - Familiarity with current issues in education
  - Knowledge of conflict resolution and negotiation skills
  - Knowledge of higher education as a field
  - Entry level understanding of ethical leadership
  - Vision for P-16 education

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Specific Additional Admission Procedures

Each applicant must forward the following to the Educational Leadership and Policy Studies Department in the College of Education:

- the Educational Leadership and Policy Studies application for admission (available in Eureka Hall 437);
- two letters of reference (forms attached to application packet); and
- one set of transcripts, *including Sacramento State* (these need not be official).

Approximately two weeks after the deadline for submission of application materials to the Department, each applicant will be scheduled for an interview. Approximately two weeks after all applicants have been interviewed, a decision regarding admission will be mailed to each applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0. Only units with a grade "C" or better may be counted.

Notes:

- This graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the "Graduate Studies" and the "Educational Leadership and Policy Studies Department" sections of this catalog.
- All work must be completed within a 7-year period
- 30 units required for the MA, including at least 21 units in approved Educational Leadership courses. Up to six units, including extension credit, can be transferred from another university (if current and not used toward another degree); a minimum of 21 units must be taken in residence

Advancement to Candidacy

Each student working toward a Master's degree must file an application for Advancement to Candidacy for the degree; the application is a form on which the student indicates a proposed program of graduate study. The student must be advanced to candidacy the semester prior to enrolling in EDLP 500A. The procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the Educational Leadership and Policy Studies graduate program with a minimum 3.0 GPA;
- obtained advisor's preliminary approval of thesis or project proposal; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to candidacy forms are available on the Office of Graduate Studies website or the Educational Leadership and Policy Studies Department Office. The student fills out the form after planning a degree program in consultation with his/her Educational Leadership faculty advisor. The completed form is returned to the Office of Graduate Studies for approval.

Notes:

- Thesis/Projects: Students must file a petition in the Department office one semester in advance and must have advanced to candidacy before they enroll in thesis/project. First semester students are to register for EDLP 500A and EDLP 500B during the second semester if they obtained a satisfactory grade in EDLP 500A. Students needing additional time may enroll in subsequent semesters in EDLP 299T with approval of their advisor and Department Chair.
- The Master of Arts in Education, Higher Education Leadership Option consists of the following tracks: Student Affairs Leadership and Community College Leadership.

Program Requirements

Code	Title	Units
Graduate Core Requirements (24 Units)		
EDLP 221	Foundations in Higher Education Leadership [1,2]	3
EDLP 222	Diversity in Higher Education [1,2]	3
EDLP 250	Education Research [3]	3
EDLP 224	Advanced Seminar: Dynamics of Organizational Change [1,3]	3
EDLP 225	Advanced Seminar: Ethical Decision Making [1,4]	3
EDLP 226	Workforce Development Professional Competencies [4]	3
EDLP 227	Leading the Way for Student Success: Student and Instructional Services [2]	3
EDLP 228	Innovative Leadership: Strengthening Organizational Capacity [3]	3
Culminating Requirement (6 Units)		
EDLP 296A	Capstone Research Project [5]	3
EDLP 500A	Master of Arts Thesis/Project [5]	3
Total Units		30

1. Prerequisite: Admission to the Master of Education: Higher Education Leadership Option.
2. To be taken in the first semester of the program.
3. To be taken in the second semester of the program.
4. To be taken in the third semester of the program.
5. To be taken in the fourth semester of the program.

MA in Education (Language and Literacy)

Total units required for MA: 30

Program Description

The Master of Arts in Education with a Concentration in Language and Literacy is designed for the administrator, the classroom teacher, and the specialist teacher of language and literacy for all types of children, youth, and adults. The program includes required courses in Professional Education and selected courses in language and literacy.

Admission Requirements

Admission as a classified graduate student requires:

- a baccalaureate degree;
- two years of teaching experience or its functional equivalent;
- a minimum 2.5 GPA in the last 60 units;
- proficiency in written English composition as demonstrated by either passing the Sacramento State Writing Placement for Juniors exam or equivalent, or enrolling in ENGL 109W passing with a grade of C or better; and
- an interview with a student/practicing administrator/faculty team; interviews will be scheduled at the close of the application period, (the Graduate Record Exam (GRE) or Miller Analogies Test scores are NOT required; however, these test scores may be included with the admission application).

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Admission Procedures

Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, *other than Sacramento State.*

For more admissions information and application deadlines, please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*)*.

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 79) section of the University Catalog.

Specific Additional Admission Requirements

Admission as a classified graduate student in Education, Language and Literacy, requires:

- a valid Teaching Credential or advisor or Department approval for waiving this requirement;
- a minimum 3.0 GPA in the last 60 units attempted; and
- successful completion of a basic course in the Teaching of Reading from an accredited university; if reading methods course is older than seven years, the applicant must show evidence of either a) current staff development in Language and Literacy by participation in workshops, institutes, etc., (candidates must show documentation); or b) passing the RICA test within the past seven years.

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

The Department of Teacher Education requires each student download the *Department of Teacher Education Graduate Student Handbook*, available on the Department website (http://www.csus.edu/coe/academics/credentials/handbooks/).

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum cumulative GPA: 3.0; no units with a grade lower than 'C' may apply toward the degree.

General Advancement to Candidacy Procedures

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission;
- completed at least 12 units of courses in the graduate program (see Degree Requirements) with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available online through the Office of Graduate Studies website (http://www.csus.edu/gradstudies/forms/). The student fills out the form after planning a degree program in consultation with the appropriate M.A. Program Coordinator. The form must be submitted to the Teacher Education Department Office and the Office of Graduate Studies for approval.

Approved Master's Thesis/Project Format: *American Psychological Association* **(APA) - Latest edition.** Before beginning a 500-level course to complete a Project, Action Research, or Thesis, students are required to have an approved Culminating Experience Proposal on file in the Department office. The reservation form for a Culminating Experience Chair for fall semester is due March 10; for spring the form is due October 15. **Note:** A completed Proposal requires the approval of the Culminating Experience Chair as well as Human Subjects approval. The proposal and accompanying Protection of Human Subject forms must be reviewed by the EDTE Graduate Coordinator and the Department or University Human Subjects Review Committee.

Enrollment in the 500 series Culminating Experience is for one semester. The expectation is that students will complete the thesis/project during the 500-level course. One semester of continuous enrollment is allowed if the Culminating Experience Chair deems a reasonable amount of progress has been made as per the timeline in the Proposal and assigns a grade of 'RP' for the 500 series. If students fail to make adequate progress according to their Proposal timeline and there are no mitigating circumstances (e.g., illness), a grade of 'no credit' is given, and the student must re-enroll in the appropriate 500 series Culminating Experience.

Note: The Department of Teacher Education requires each student download the *Department of Teacher Education Graduate Student Handbook*, available on the Department website (http://www.csus.edu/coe/academics/credentials/handbooks/).

Program Requirements

Reading/Language Arts Specialist Credential Emphasis

Code	Title	Units
Required Courses (24 Units)		
Tier I (Take these courses first)		
EDTE 200		3
EDTE 201		3
EDTE 203		3
EDTE 205		3
Tier II (Take these courses ONLY after you have completed Tier I)		
EDTE 202		3
EDTE 206		3
EDTE 207		3
EDTE 209		3
Other Required Course (3 Units)		
EDTE 250		3
Culminating Requirement (3 Units)		
EDTE 503		3
Total Units		30

Adult Reading Certificate Emphasis

Code	Title	Units
Required Courses (24 Units)		
Tier I (Take these courses first)		
ENGL 215A	Reading/Vocabulary Acquisition	3
EDTE 201		3
EDTE 203		3
EDTE 205		3
Tier II (Take these courses ONLY after you have completed Tier I)		

EDTE 202		3
EDTE 207		3
EDTE 225C	Theoretical Issues in Adult Literacies	3
ENGL 410L	Internship in Teaching Adult Reading	3
Other Required Course (3 Units)		
EDTE 250		3
Culminating Requirement (3 Units)		
EDTE 503	[1]	3
Total Units		30

[1] Credit is given upon completion of a thesis, project, or other approved culminating experience for the Master of Arts in Education (Language and Literacy). Open only to the graduate student who has been advanced to candidacy for the master's degree and has secured the permission of his/her Culminating Experience Chair and the Language and Literacy Program Coordinator. All forms may be obtained on the College of Education's website (http://csus.edu/coe/).

MA in Education (Multicultural Education)

Total units required for MA: 30-33

Program Description

The MA in Education with a Concentration in Multicultural Education graduate program explores theoretical and pedagogical issues of bilingualism, multiculturalism, educational equity, and social justice, offering courses and experiences to assist educators to work successfully in classrooms, schools, and educational agencies within our diverse State. The curriculum develops student's pedagogical, analytical, and planning skills in order to prepare them to operate effectively in the development, implementation and analysis of educational policies and programs affecting the academic lives of low income, and culturally and linguistically diverse K-12 student.

Admission Requirements

Admission as a classified graduate student requires:

- a baccalaureate degree;
- two years of teaching experience or its functional equivalent;
- a minimum 2.5 GPA in the last 60 units;
- proficiency in written English composition as demonstrated by either passing the Sacramento State Writing Placement for Juniors exam or equivalent, or enrolling in ENGL 109W passing with a grade of C or better; and
- an interview with a student/practicing administrator/faculty team; interviews will be scheduled at the close of the application period, (the Graduate Record Exam (GRE) or Miller Analogies Test scores are NOT required; however, these test scores may be included with the admission application).

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Admission Procedures

Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, *other than Sacramento State.*

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 79) section of the University Catalog.

Specific Additional Admission Requirements

Admission as a classified graduate student in Bilingual/Multicultural Education graduate program requires:

- a baccalaureate degree;
- a minimum 2.5 GPA in the last 60 units;
- proficiency in written English composition as demonstrated either by passing the Sacramento State Writing Proficiency for Juniors exam or equivalent, or enrolling in ENGL 109W until the WPJ is passed;
- completion and successful review of Department application;
- successful interview with a faculty team. Interviews are scheduled within one month of the due date for submitting completed department applications.

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Students will be notified of any deficiencies through written communication.

The Department does not accept units earned through Open University and they will not be credited towards either option of the Master's degree.

Specific Additional Admission Procedures

All MA cohorts begin in fall semester. Applicants must complete a university application by the posted application deadline date for the term applying:

Each applicant must also complete the following procedures with the Graduate and Professional Studies in Education by the same due dates noted above:

- complete and submit a Program application (available at Eureka Hall 401) and
- participate in an oral interview (applicants schedule interview upon submitting their Program application). Interviews are scheduled within one month after the Program and Office of Graduate Studies applications are due.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy indicating a proposed program of study for the MA. The student must be advanced to candidacy prior to enrolling in EDBM 565. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of courses in the graduate program (see Degree Requirements) with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student will complete the form after planning a degree program in consultation with the Department Graduate Coordinator. The form must be submitted to the Bilingual/Multicultural Graduate Coordinator and the Office of Graduate Studies for approval.

Thesis/Project Registration

Check with the Bilingual/Multicultural Graduate Coordinator for the policies regarding Report in Progress ('RP') grades and continuous enrollment. The culminating experience for the MA may be a thesis, project, or exam.

A 3-unit course is required when doing the thesis/project. Enrollment in the culminating experience may occur only after Advancement to Candidacy.

The Thesis/Project course requires the student to file and have an approved Thesis/Project Petition form and Advisor Reservation form on record with the BMED Graduate Coordinator at least one full semester in advance of registration. Both forms are due by April 1st for fall enrollment and by November 1st for spring enrollment. Failure to meet these deadlines will result in the inability to enroll in the Thesis/Project course for the desired semester.

The Thesis/Project Petition and reservation forms must be submitted to the Graduate Coordinator at least one month prior to the submission due date (i.e., March or October); the forms will then be forwarded to the Graduate Committee for review and recommendations.

Students may enroll in the Thesis/Project course a maximum of two semesters for credit. Students must submit the Reservation Form only to continue in the Thesis/Project course for the second semester. Failure to do so will result in inability to work with the Thesis/Project advisor for the desired semester.

Approved Master's Thesis/Project Format: *American Psychological Association* (APA) - Latest Edition.

Program Requirements [1]

Code	Title	Units
Required Core Courses (12 Units)		**12**
EDBM 205	Education for a Democratic, Pluralistic Society	3
EDBM 220	Multicultural Curriculum, Advocacy, and Community	3
EDGR 260	Writing and Research Across the Disciplines ✎	3
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
Additional Course Requirements (9 Units)		
EDBM 235	Research Seminar on Bilingualism and Language Varieties in Education	3
EDBM 245	Advocacy, Change and Community	3
EDBM 250	Education Research ✎	3
Electives (3-6 Units)		
Select 3-6 units of the following: [1]		3 - 6
EDUC 168	Foundational Issues for a Multicultural, Pluralistic Society, B	
EDBM 128	Foundations for Multicultural Secondary Education, B	
EDMS 272	Methods for Teaching Second Language Learners, Multiple Subject (ELD and SDAIE)	
EDLP 299	Special Problems Educational Leadership	
Culminating Experience or Comprehensive Exam MA Exam (3-6 Units) [2]		
Select 3-6 units of the following:		3 - 6
EDBM 265	Thesis/Project Writing	
EDBM 565	MA Thesis/Project	
Total Units		30-33

[1] The program requires completion of 30 units of approved coursework with a minimum 3.0 GPA. A minimum of 18 units of approved 200 series offerings must be earned, not including EDBM 299. A minimum of 24 units in 100, 200, and 500 series offerings must be earned in residence at Sacramento State. The Department does not accept units earned through Open University, and they will not be credited towards the MA. **All work must be completed within a 7-year period.**

[2] Additional electives are selected by the candidate and his/her MA advisor.

[3] Comprehensive exam students = 24 total units (will need 6 units of electives) Thesis/project students = 27 total units (will need 3 units of electives)

MA in Education (School Psychology)

Total units required for MA: 42-45

Program Description

The Master of Arts in School Psychology offers the opportunity to gain skills in working with preschool through grade 12 students, teachers, and parents in the school setting. Graduates of this degree who also complete practicum and fieldwork requirements (described in Pupil Personnel Services School Psychology Endorsement Credential) are eligible for the Pupil Personnel Services School Psychology Endorsement Credential, offered by the California Commission on Teacher Credentialing (CCTC). Possession of the MA in Education (School Psychology) and the Pupil Personnel Services School Psychology Endorsement Credential also prepares an individual to meet the academic requirements for the Licensed Educational Psychologist (LEP) license administered by the California Board of Behavioral Science Examiners, Department of Consumer Affairs.

The program includes training in counseling techniques, the use of individual academic and psychological assessment tools, behavioral interventions in the school and the home, consultation skills, techniques

of program development and evaluation, special education law, and instructional strategies.

Note: If students are to graduate under the provisions of this catalog, they must maintain continuous enrollment from the date of classification to the date of graduation. Students who are planning to be absent for more than one semester must file a Leave of Absence request and have it approved prior to the absence.

Admission Requirements

Admission as a classified graduate student requires:

- a baccalaureate degree;
- a minimum 2.5 GPA in the last 60 units;
- proficiency in written English composition as demonstrated by either passing the Sacramento State Writing Placement for Juniors exam or equivalent, or passing ENGL 109W (or its equivalent) with a grade of C or better.

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Admission Procedures

Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application, via Cal State Apply, for admission; and
- one set of official transcripts from all colleges and universities attended, *other than Sacramento State.*

For more admissions information and application deadlines, please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*).*

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 79) section of the University Catalog.

Specific Additional Admission Requirements

In addition to the requirements specified above, admission as a classified graduate student in the Master of Arts in Education, School Psychology option, requires:

- a minimum 3.0 overall grade point average (if GPA is below 3.0, but at or above 2.5, the student may be accepted conditionally);
- Graduate Record Exam (GRE) scores;
- evidence of registration for, or CBEST passing score;
- Completion of the following prerequisite courses or their equivalents (contact a school psychology advisor for more information on equivalent experiences):

Code	Title	Units
Select an Introductory Statistics course		3
EDUC 155	Introduction to Counseling	3
EDUC 156	Power, Privilege and Self Identity in Counseling	3
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab [1]	3
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum [2]	3
PSYC 117	Drugs and Behavior	3
PSYC 168	Abnormal Psychology	3

[1] EDUC 100A and EDUC 100B must be taken concurrently.

[2] One (1) year of experience as a teacher in preschool through grade 12 settings, or two (2) years experience as a teacher's aide or substitute teacher in preschool through grade 12 settings may be used as an equivalency (contact a school psychology advisor for more information on equivalent experiences).

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Specific Additional Admission Procedures

In addition to the procedures specified above, each applicant must complete a separate application for admission to the School Psychology Program (this application is typically available by October of each year, which is the start of the application cycle):

- the program's application is available online (http://www.csus.edu/coe/apply/graduate.html);
- two letters of reference (references will submit letters online);
- one set of transcripts;
- evidence of experience working or volunteering in schools and/or working with youth;
- evidence of strong written communication skills (obtained via writing samples);
- evidence of strong oral communication skills (obtained via an interview with a current school psychology graduate student, practicing school psychologist, and school psychology faculty member).

Department applications are due by February for admission the following Fall Semester. Applications are only accepted and processed once per year, during spring semester for admission the following fall.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 42-45

Minimum Cumulative GPA: 3.0. No single course in which a student receives a grade below 'B-' will be counted as credit toward the degree unless the student has petitioned for acceptance of the course, and the petition has been accepted and approved by the School Psychology faculty.

Note: A minimum of 21 of these units must be taken in residence at Sacramento State. Use of extension courses must be approved by the advisor. Enrollment in Special Problems will only be granted under exceptional circumstances.

Advancement to Candidacy

Students working toward a Master's degree must file an application for Advancement to Candidacy, indicating a proposed program of study. This procedure should begin as soon as the classified graduate student has:

- been assigned an advisor;
- removed any deficiencies in admission requirements;
- completed 24 units of content knowledge elective units with a minimum 3.0 GPA; and
- satisfied the Writing Placement for Graduate Students (WPG) requirement within the first two semesters of coursework at California State University, Sacramento. Students may satisfy this requirement via a WPG waiver (see Office of Graduate Studies website for waiver requirements). If students do not satisfy this requirement via a WPG waiver, students must do the following:
  - Take the WPG Exam
    - If WPG Exam is passed, WPG requirement is satisfied;
    - If WPG Exam not passed, WPG requirement not satisfied, and student must:
      - Take ENGL 220W (offered through the College of Continuing Education) and pass with a grade of "B" or better; or
      - Take GRE/GMAT and score 4.5 or higher on the Analytical Writing portion and submit a waiver to the Office of Graduate Studies.

Advancement to Candidacy forms are available in the Department office and on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a faculty advisor and approved by the Graduate Coordinator. The completed form is then returned to the Office of Graduate Studies for approval. Please note deadline dates posted by the Office of Graduate Studies for submission of this form.

The MA Seminar EDS 249 and EDS 541 courses require students to file and have approved a Reservation Form for the courses the semester before intended registration. Registration for Special Problems (EDS 299) requires a Special Problems petition be filed the semester before intended registration. Enrollment in the culminating experience (Project/MA Seminar) may occur only after advancement to candidacy.

Please be aware that this Department requires the guidelines in the *American Psychological Association* (APA), most current edition, for formatting of projects. The Office of Graduate Studies, River Front Center 215, (916) 278-6470, also publishes a two-sided form, Project Format Requirements, to refer to for the preparation and submission of the Master's Thesis or Project. You can find this form and other Graduate Studies forms on the web on the Office of Graduate Studies website (http://csus.edu/gradstudies/forms/).

Prior to graduation, an application for graduation must be filed in the Office of Graduate Studies by the deadline and all coursework leading to this Master's degree (as well as to special education credentials) must be completed within a seven year period. Please note deadline dates posted by the Office of Graduate Studies for submission of this form.

Program Requirements

First Semester		Units
EDC 210	Multicultural/Ethnic Counseling	3
EDS 201	Legal Aspects of Special Education	3
EDS 231	Group Process in School Psychology	3
EDS 245	Psychology In The Schools	3
EDS 248	Human Development and Learning	3
	Units	15
Second Semester		
EDC 250	Education Research	3
EDS 241	Counseling and Psychotherapy for School Psychologists	3
EDS 242A	Cognitive Assessment	3
	Units	9
Third Semester		
EDS 240	Functional Assessment of Behavior	3
EDS 244	Social, Emotional and Behavioral Assessment	3
EDS 246A	Preventive Academic Interventions	3
	Units	9
Fourth Semester		
EDS 246B	Preventive Mental Health Interventions	3
EDS 247	Assessment of Special Needs	3
EDS 249 or EDS 541	Special Seminar: School Psychology [1] or Master's Project: Education/School Psychology (Plan B)	3 - 6
	Units	9-12
	Total Units	42-45

[1] EDS 249 credit received upon passage of the Culminating Exam.

MA in Education (Workforce Development Advocacy)

Total units required for MA: 30

Program Description

This program is designed to provide training for adults who wish to train/teach in a career technical/business program in public institutions or private business settings. The Bachelor's degree includes the Designated Subjects Teaching Credential in Career Technical Education or Adult Education and the Supervision and Coordination Credential. The program is offered on weekends and uses instructional techniques suited to adult learners.

The MA in Education with a Concentration in Workforce Development Advocacy is designed to complement the existing Bachelor of Science in Career and Technical Studies (CTS) degree. The new option would be offered as a component of the Master of Arts degree program in the Department of Special Education, Rehabilitation, School Psychology, and Deaf Studies but delivered through the College of Continuing Education using a similar scheduling format as the CTS program (an intensive weekend schedule to which employers as well as CTS graduates have adapted).

This program is offered through the College of Continuing Education while its academic home is in the Department of Graduate and Professional Studies in the College of Education. It is approved by the California Commission on Teacher Credentialing (CTC), the California

State University Chancellor's Office, and the Western Association of Schools and Colleges (WASC).

Career Possibilities
Teacher in regional occupation programs, private post-secondary institutions, community colleges, correctional facilities and adult schools · Trainers and facilitators in public or private industry · School and career counselors · Human resource recruiters and placement personnel · Mediators and labor relations specialists · Educational administrators · School-to-work coordinators · Learning specialists · Administrators, managers and supervisors in public or private industry · Small business owners and entrepreneurs · Consultants in business, industry, and education

Admission Requirements

Admission as a classified graduate student requires:

- a baccalaureate degree;
- two years of teaching experience or its functional equivalent;
- a minimum 2.5 GPA in the last 60 units;
- proficiency in written English composition as demonstrated by either passing the Sacramento State Writing Placement for Juniors exam or equivalent, or enrolling in ENGL 109W passing with a grade of C or better; and
- an interview with a student/practicing administrator/faculty team; interviews will be scheduled at the close of the application period, (the Graduate Record Exam (GRE) or Miller Analogies Test scores are NOT required; however, these test scores may be included with the admission application).

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Admission Procedures

Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, *other than Sacramento State.*

For more admissions information and application deadlines, please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*).*

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 79) section of the University Catalog.

Specific Additional Admission Requirements

The CTS degree program requires that students have five to seven years of career technical/business experience in a designated field prior to graduation. Degree candidates receive up to 30 elective units for prior job experience, teaching/training experience, supervisory experience, and current professional development and education. In addition, candidates complete general education and graduation requirements for Sacramento State and the Career and Technical Studies Major.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Students must advance to candidacy prior to enrollment in EDS 530 and EDS 531. Advancement to Candidacy forms are available in the Department office and the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a faculty advisor and approved by the Graduate Coordinator. The completed form is then returned to the Office of Graduate Studies for approval. Please note deadline dates posted by the Office of Graduate Studies for submission of this form.

Program Requirements

Code	Title	Units
Core Requirements (9 Units)		
EDS 228	Sem:Future Workforce Dev	3
EDSP 250	Education Research	3
EDSP 251	Education in a Democratic, Pluralistic Society	3
Culminating Requirement (6 Units)		
EDS 530	Project In WDA I	2
EDS 531	Project In WDA II	4
Concentration Requirements (15 Units)		
EDS 222	Perspectives Workforce Dev	3
EDS 223	Organization Learning Comm	3
EDS 224	WF Assess+Accountability	3
EDS 226	Resource Enhance For WDA	3
EDS 227	Issues Impacting WDA	3
Total Units		30

MA in Language and Literacy

Total units required for MA: 30

Program Description

The Master of Arts in Education in Language and Literacy is designed for the administrator, the classroom teacher, and the specialist teacher of language and literacy for all types of children, youth, and adults. The program includes required courses in the field of language and literacy. Students will do practical work with struggling readers, examine literacy in educational contexts, and read and do research in the field of literacy.

Admission Requirements

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Admission Procedures

Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, *other than Sacramento State.*

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 79) section of the University Catalog.

Specific Additional Admission Requirements

Admission as a classified graduate student in Education, Language and Literacy, requires:

- a minimum 3.0 GPA in the last 60 units attempted; and
- an essay for acceptance into the Masters program is required. The Graduate Record Exam (GRE) or Miller Analogies Test scores are NOT required,;however, these test scores may be included with the admission application).
- a valid California Teaching Credential is not required, but may be included in the application.
- **completion and successful review of Department application**

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Program Requirements

Reading/Language Arts Masters Degree

Code	Title	Units
Required Courses (24 Units)		
MASTERS DEGREE		
EDLL 200	Practicum in Decoding and Fluency: Assessment and Instruction	3
EDLL 201	Practicum in Comprehension: Assessment and Instruction	3
EDLL 203	Teaching and Assessing Writing in the Pre-K through 12 Classroom	3
EDLL 205	Psychology and Sociology of Literacy Instruction	3
EDLL 202	Language and Literacy Development in Multicultural Settings	3
EDLL 206	Leadership In Literacy	3
EDLL 207	Advanced Practicum in Reading Difficulties: Assessment and Intervention	3
EDLL 209	Literature for the Diverse Pre- K through 12 Classroom: Issues, Models and Strategies	3
Other Required Course (3 Units)		
EDLL 205	Psychology and Sociology of Literacy Instruction	3
Culminating Requirement (3 Units)		
EDLL 503	Culminating Experience: Language and Literacy	3
Total Units		30

Adult Reading Certificate Emphasis

Code	Title	Units
Required Courses (24 Units) [2]		
Tier I (Take these courses first)		
ENGL 215A	Reading/Vocabulary Acquisition	3
EDLL 201	Practicum in Comprehension: Assessment and Instruction	3
EDLL 203	Teaching and Assessing Writing in the Pre-K through 12 Classroom	3
EDLL 205	Psychology and Sociology of Literacy Instruction	3
Tier II (Take these courses ONLY after you have completed Tier I)		
EDLL 202	Language and Literacy Development in Multicultural Settings	3
EDLL 207	Advanced Practicum in Reading Difficulties: Assessment and Intervention	3
EDTE 225C	Theoretical Issues in Adult Literacies	3
ENGL 410L	Internship in Teaching Adult Reading	3
Other Required Course (3 Units)		
EDLL 250	Education Research	3
Culminating Requirement (3 Units)		
EDLL 503	Culminating Experience: Language and Literacy	3
Total Units		30

[1] Credit is given upon completion of a thesis, project, or other approved culminating experience for the Master of Arts in Education (Language and Literacy). Open only to the graduate student who has been advanced to candidacy for the master's degree and has secured the permission of his/her Culminating Experience Chair and the Language and Literacy Program Coordinator. All forms may be obtained on the College of Education's website (http://csus.edu/coe/).

[2] The Adult Reading Certificate in not currently being offered. Please check with the department for information about future plans to offer it.

MA in Multicultural Education

Total units required for MA: 30

Program Description

The Multicultural Education graduate program explores theoretical and pedagogical issues related to working with diverse culturally, linguistically, ethnically, and low-income populations across educational and community settings. The program includes history, research and pedagogy on bilingualism, multiculturalism, educational equity, social justice, and ethnic studies, offering courses and experiences to assist educators to work successfully in classrooms, schools, and educational agencies within our diverse state. The curriculum develops students' historical, pedagogical, analytical, and planning skills in order to prepare them to operate effectively in the development, implementation and analysis of educational policies and programs, as well as in social justice projects and advocacy to serve historically underserved and underrepresented groups in K-12 education.

Admission Requirements

Admission as a classified graduate student requires:

- a baccalaureate degree;
- a minimum 2.5 GPA in the last 60 units;
- completion and successful review of Department application;
- successful interview with a faculty team. Interviews are scheduled within one month of the due date for submitting completed department applications.

Admission Procedures

Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, *other than Sacramento State.*

For more admissions information and application deadlines, please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*)*.

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 79) section of the University Catalog.

The Department does not accept units earned through Open University and they will not be credited towards the Multicultural Education degree.

Specific Additional Admission Procedures

All MA cohorts begin in fall semester. Applicants must complete a university application and department application by the posted application deadline date for the term applying:

Each applicant must also complete the following procedures with the Graduate and Professional Studies in Education by the same due dates noted above:

- complete and submit a Program application and
- participate in an oral interview (applicants schedule interview upon submitting their Program application). Interviews are scheduled within one month after the Program and Office of Graduate Studies applications are due.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy indicating a proposed program of study for the MA. The student must be advanced to candidacy prior to enrolling in EDBM 565. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of courses in the graduate program (see Degree Requirements) with a minimum 3.0 GPA; and
- taken a Graduate Writing Intensive (GWI) course in their discipline within the first three semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student will complete the form after planning a degree program in consultation with the Department Graduate Coordinator. The form must be submitted to the Multicultural Education Graduate Coordinator and the Office of Graduate Studies for approval.

Thesis/Project Registration

Check with the Multicultural Education Graduate Coordinator for the policies regarding Report in Progress ('RP') grades and continuous enrollment. The culminating experience for the MA may be a thesis or project.

A 3-unit course is required when doing the thesis/project. Enrollment in the culminating experience may occur only after Advancement to Candidacy.

The Thesis/Project course requires the student to file and have an approved Thesis/Project Petition form and Advisor Reservation form on record with the Multicultural Education Graduate Coordinator at least one full semester in advance of registration. Both forms are due by April 1st for fall enrollment and by November 1st for spring enrollment. Failure to meet these deadlines will result in the inability to enroll in the Thesis/Project course for the desired semester.

The Thesis/Project Petition and reservation forms must be submitted to the Graduate Coordinator at least one month prior to the submission due date (i.e., March or October); the forms will then be forwarded to the Graduate Committee for review and recommendations.

Students may enroll in the Thesis/Project course a maximum of two semesters for credit. Students must submit the Reservation Form only to continue in the Thesis/Project course for the second semester. Failure to do so will result in inability to work with the Thesis/Project advisor for the desired semester.

Approved Master's Thesis/Project Format: *American Psychological Association* (APA) - Latest Edition.

Program Requirements [1]

Code	Title	Units
Required Core Courses (15 Units)		
EDTE 251	Education for a Democratic, Pluralistic Society	3
EDBM 250	Education Research	3
EDBM 235	Research Seminar on Bilingualism and Language Varieties in Education	3
EDTE 227	Seminar in Curriculum and Instruction, K-12	3
EDBM 220	Multicultural Curriculum, Advocacy, and Community	3
Additional Course Requirements (12 Units)		
EDBM 228	The Academic and Social Value of Ethnic Studies	3
EDGR 210	Contemporary Issues in Education: Curriculum and Social Emotional Well Being of Students	3
ETHN 203	Contemporary Ethnic Studies Issues	3
ETHN 204	Foundations & Theories	3
Culminating Experience or Comprehensive Exam MA Exam (3 Units) [2]		
EDBM 565	MA Thesis/Project	3
Total Units		30

[1] The program requires completion of 30 units of approved coursework with a minimum 3.0 GPA. A minimum of 18 units of approved 200 series offerings must be earned, not including EDBM 299. A minimum of 24 units in 200, and 500 series offerings must be earned in residence at Sacramento State. The Department does not accept units earned through Open University, and they will not be credited towards the MA. **All work must be completed within a 7-year period.**

[2] According to university policy, 'A minimum cumulative grade point average of 3.0. No grade below a "B" may be counted toward the degree requirement unless expressly permitted by a campus-approved graduate programs' written policies'. See http://catalog.csus.edu/graduate-degree-requirements/

[3] EDBM 599 (Continuous Enrollment) will only be offered to students (a) after two consecutive semesters of EDBM 565, and (b) with advisor approval.

MA in School Psychology

Total units required for MA: 45-46

Program Description

The Master of Arts in School Psychology offers the opportunity to gain skills in working with preschool through grade 12 students, teachers, and parents in the school setting. Graduates of this degree who also complete practicum and fieldwork requirements (described in Pupil Personnel Services School Psychology Endorsement Credential) are eligible for the Pupil Personnel Services School Psychology Endorsement Credential, offered by the California Commission on Teacher Credentialing (CCTC). Possession of the MA in School Psychology and the Pupil Personnel Services School Psychology Endorsement Credential also prepares an individual to meet the academic requirements for the Licensed Educational Psychologist (LEP) license administered by the California Board of Behavioral Science Examiners, Department of Consumer Affairs.

The program includes training in counseling techniques, the use of individual academic and psychological assessment tools, behavioral interventions in the school and the home, consultation skills, techniques of program development and evaluation, special education law, and instructional strategies.

Note: If students are to graduate under the provisions of this catalog, they must maintain continuous enrollment from the date of classification to the date of graduation. Students who are planning to be absent for more than one semester must file a Leave of Absence request and have it approved prior to the absence.

Admission Requirements

Admission as a classified graduate student requires:

- a baccalaureate degree;
- a minimum 2.5 GPA in the last 60 units;
- proficiency in written English composition as demonstrated by either passing the Sacramento State Writing Placement for Juniors exam or equivalent, or passing ENGL 109W (or its equivalent) with a grade of C or better.

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Admission Procedures

Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application, via Cal State Apply, for admission; and
- one set of official transcripts from all colleges and universities attended, *other than Sacramento State.*

For more admissions information and application deadlines, please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*)*.

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 79) section of the University Catalog.

Specific Additional Admission Requirements

In addition to the requirements specified above, admission as a classified graduate student in the Master of Arts in School Psychology, requires:

- a minimum 3.0 overall grade point average (if GPA is below 3.0, but at or above 2.5, the student may be accepted conditionally);
- Graduate Record Exam (GRE) scores;
- evidence of registration for, or CBEST passing score;
- Completion of the following prerequisite courses or their equivalents (contact a school psychology advisor for more information on equivalent experiences):

Code	Title	Units
An Introductory Statistics course		3
EDUC 155	Introduction to Counseling	3
EDUC 156	Power, Privilege and Self Identity in Counseling	3
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab [1]	3
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum [2]	3
PSYC 117	Drugs and Behavior	3
PSYC 168	Abnormal Psychology	3

[1] EDUC 100A and EDUC 100B must be taken concurrently.

[2] One (1) year of experience as a teacher in preschool through grade 12 settings, or two (2) years experience as a teacher's aide or substitute teacher in preschool through grade 12 settings may be used as an equivalency (contact a school psychology advisor for more information on equivalent experiences).

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the student's admission application.

Specific Additional Admission Procedures

In addition to the procedures specified above, each applicant must complete a separate application for admission to the School Psychology

Program (this application is typically available by October of each year, which is the start of the application cycle):

- the program's application is available online (http://www.csus.edu/coe/apply/graduate.html);
- two letters of reference (references will submit letters online);
- one set of transcripts;
- evidence of experience working or volunteering in schools and/or working with youth;
- evidence of strong written communication skills (obtained via writing samples);
- evidence of strong oral communication skills (obtained via an interview with a current school psychology graduate student, practicing school psychologist, and school psychology faculty member).

Department applications are due by February for admission the following Fall Semester. Applications are only accepted and processed once per year, during spring semester for admission the following fall.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 42-45

Minimum Cumulative GPA: 3.0. No single course in which a student receives a grade below 'B-' will be counted as credit toward the degree unless the student has petitioned for acceptance of the course, and the petition has been accepted and approved by the School Psychology faculty.

Note: A minimum of 21 of these units must be taken in residence at Sacramento State. Use of extension courses must be approved by the advisor. Enrollment in Special Problems will only be granted under exceptional circumstances.

Advancement to Candidacy

Students working toward a Master's degree must file an application for Advancement to Candidacy, indicating a proposed program of study. This procedure should begin as soon as the classified graduate student has:

- been assigned an advisor;
- removed any deficiencies in admission requirements;
- completed 24 units of content knowledge elective units with a minimum 3.0 GPA; and
- satisfied the Writing Placement for Graduate Students (WPG) requirement within the first two semesters of coursework at California State University, Sacramento. Students may satisfy this requirement via a WPG waiver (see Office of Graduate Studies website for waiver requirements). If students do not satisfy this requirement via a WPG waiver, students must do the following:
  - Take the WPG Exam
    - If WPG Exam is passed, WPG requirement is satisfied;
    - If WPG Exam not passed, WPG requirement not satisfied, and student must:
      - Take ENGL 220W (offered through the College of Continuing Education) and pass with a grade of "B" or better; or
      - Take GRE/GMAT and score 4.5 or higher on the Analytical Writing portion and submit a waiver to the Office of Graduate Studies.

Advancement to Candidacy forms are available in the Department office and on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a faculty advisor and approved by the Graduate Coordinator. The completed form is then returned to the Office of Graduate Studies for approval. Please note deadline dates posted by the Office of Graduate Studies for submission of this form.

The MA Seminar EDS 249 and Master's Project EDS 541 courses require students to file and have approved a Reservation Form for the courses the semester before intended registration. Registration for Special Problems (EDS 299) requires a Special Problems petition be filed the semester before intended registration. Enrollment in the culminating experience (Project/MA Seminar) may occur only after advancement to candidacy.

Please be aware that this program follows the guidelines provided by the *American Psychological Association's* (APA), most current edition, for formatting of projects. The Office of Graduate Studies, River Front Center 215, (916) 278-6470, also publishes a two-sided form, Project Format Requirements, to refer to for the preparation and submission of the Master's Project. You can find this form and other Graduate Studies forms on the web on the Office of Graduate Studies website (http://csus.edu/gradstudies/forms/).

Prior to graduation, an application for graduation must be filed in the Office of Graduate Studies by the deadline and all coursework leading to this Master's degree (as well as to special education credentials) must be completed within a seven year period. Please note deadline dates posted by the Office of Graduate Studies for submission of this form.

Program Requirements

First Semester		Units
EDC 210	Multicultural/Ethnic Counseling	3
EDS 231	Group Process in School Psychology	3
EDS 245	Psychology In The Schools	3
EDS 248	Human Development and Learning	3
EDS 201	Legal Aspects of Special Education	3
	Units	15
Second Semester		
EDS 241	Counseling and Psychotherapy for School Psychologists	3
EDS 242A	Cognitive Assessment	3
EDC 250	Education Research	3
	Units	9
Third Semester		
EDS 240	Functional Assessment of Behavior	3
EDS 244	Social, Emotional and Behavioral Assessment	3
EDS 246A	Preventive Academic Interventions	3
	Units	9
Fourth Semester		
EDS 246B	Preventive Mental Health Interventions	3
EDS 247	Assessment of Special Needs	3

EDS 249 or EDS 541	Special Seminar: School Psychology or Master's Project: Education/School Psychology (Plan B)	3 - 6
	Units	9-12
	Total Units	42-45

MS in Counseling

Total units required for MS: 60

Program Description

The 60-unit Master of Science in Counseling prepares professional counselors for employment in a variety of settings such as public and private agencies, universities and colleges, schools and private practice. This degree meets the educational requirements for becoming a Licensed Marriage and Family Therapist (LMFT) and/or a Licensed Professional Clinical Counselor (LPCC) in the State of California. The 59-unit Pupil Personnel Services, School Counseling Credential prepares professional counselors to work within the K-12 educational system. The programs are clinically oriented, with didactic and experiential courses, a 100-hour clinical practicum, and 600 hours of field experience.

Specializations

Students earning the Master of Science in Counseling are required to specialize in one or more of the following areas:

- **Career Counseling.** The Career Counseling Specialization provides students with the knowledge, theory, and skills to work as effective counselors/career development specialists, and consultants in a variety of settings: community-based agencies, schools (K-12), colleges and universities, private practice, business, industry, and government. Students are trained to facilitate a holistic career development/career decision-making/planning process with groups and individuals that integrates personal, social, and career needs. Students develop the skills to address current issues in the 21st century, such as career self-reliance, work/family/life balance, multiculturalism, diversity, and lifelong learning.
- **Marriage, Family, and Child Counseling.** The Marriage, Family and Child Counseling Specialization is designed to provide students with all the educational competencies required by the California State Board of Behavioral Sciences (BBS) for licensure as a Marriage and Family Therapist (LMFT). The program trains professionals to work in a variety of settings, including community agencies, county and state agencies, hospitals and private practice, and prepares students to provide consulting to businesses and agencies. Emphasis is placed on developmental and preventative concerns, especially those of children.
- **School Counseling.** The School Counseling Specialization is designed for individuals who seek to become elementary, middle, or secondary school counselors. This program meets the requirements for the K-12 California Pupil Personnel Services Credential, School Counseling (PPS-SC). Students in this program are prepared to function as key members of an educational team seeking to optimize children's academic, socio-emotional, and career development. Students obtain the expertise necessary to lead the educational team in working collaboratively with a broad range of education and human service professionals, paraprofessionals, and community representatives to identify, develop, implement, and evaluate programs that provide key services to both the individual child as well as the systems and subsystems in which the child interacts.
- **Rehabilitation Counseling.** The Rehabilitation Counseling Specialization offers students the opportunity to gain several specialized skills for working with persons with disabilities. Rehabilitation Counselors work in a wide variety of settings including community agencies, private agencies, enabling centers on college campuses, and state agencies. The program includes training in counseling techniques; the use of medical, psychological, and occupational information; and the impact of disabilities on human behavior. In addition, the skills involved in finding and intake, vocational evaluation, restoration, training, job placement, and follow-up are taught. Independent living, assistive technology and disability rights are topic areas emphasized in the program.

Students who are specializing in School Counseling and intend to be employed in California will need to obtain the Pupil Personnel Services School Counseling Credential (p. 446).

Note: Only students who are already enrolled in the School Counseling specialization at California State University, Sacramento may apply to the Pupil Personnel Services School Counseling Internship Credential Program (p. 447).

The Career Counseling; Marriage, Family, and Child Counseling; and School Counseling specializations at Sacramento State are applying for national accreditation by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The Rehabilitation Counseling specialization is nationally accredited by CACREP through October 31, 2020.

Note: For additional information on credentials, see the "College of Education" section of this catalog. Program requirements are subject to change in order to maintain compliance with relevant state and national certification, licensure, and/or accreditation requirements. Interested parties should refer to the current student handbook for up to date program information.

Special Features

- An on-campus Center for Counseling and Diagnostic Services brings clients from off campus to be counseled by students in the program and provides opportunity for video and audio feedback.
- Trainees provide off-campus counseling in local agencies, school districts, hospitals, and non-profit organizations.
- The Masters in Counseling Program and participating school districts collaborate with the Migrant Education Advisor Program (MEAP), which is a collaborative partnership with the Office of Migrant Education.
- Faculty actively support diversity and focus on multicultural counseling skills throughout the curriculum.
- Classes are offered during the day, late afternoon, and evening.

Admission Requirements

Admission as a classified graduate student in the Master of Science in Counseling program requires:

- A baccalaureate degree;
- Good academic standing at the last college attended;
- A grade point average of at least 3.0 (on a 4.0 scale) in the last 60 semester (or 90 quarter units);
- Submission of the Graduate Record Exam (GRE);

- Completion of the University application materials;
- Completion and submission of all Departmental application materials which include:
  - Application form;
  - Written statement(s) delineated in application;
  - Copies of transcripts (from all universities and colleges attended);
  - Professional letters of recommendation (2 total);
  - Relevant work experience.
- Participation in an In-Person Admission Evaluation, which may include (but is not limited to) interviews, experiential activities, and writing samples.

Selected applicants, based on paper screening of completed applications, will be invited for an In-Person Admission Evaluation. Decisions for admission into the Master of Science in Counseling program are made based on a comprehensive assessment of **all application materials** and performance in the In-Person Admission Evaluation.

The Graduate Record Exam (GRE) is required for admission. There is no minimum GRE score required for admission. GRE scores that are not at or above the average range will only be used to increase an applicant's ranking. GRE scores will not be used to decrease an applicant's ranking.

California Basic Educational Skills Test (CBEST): Although evidence of passing the CBEST is not required for admission into the Pupil Personnel Services Credential programs, the CBEST must be successfully passed prior to receiving the Pupil Personnel Services Credentials.

Admission Procedure

The M.S. in Counseling accepts applications each fall for admission the following year. **The program does not offer spring admissions.** Applicants must complete a university application and program supplemental application by the posted application deadline date for the term applying.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*).*

Prospective applicants, including Sacramento State graduates, must submit the following to the Office of Graduate Studies**,** River Front Center 215, (916) 278-6470:

- an online application for admission;
- official transcripts from all colleges and universities attended, *other than Sacramento State*;
- an online program supplemental application for admission, please see the department website (https://www.csus.edu/coe/academics/graduate/) for more information.

Admission is competitive with a limited number of students admitted each year. At the end of the application and screening period, a program recommendation will be submitted to the Office of Graduate Studies for further review. Decisions regarding admission are then mailed to each applicant. Following admission, students are assigned to a faculty advisor who assists with academic advising.

The Master of Science in Counseling and the Pupil Personnel Services credentials are subject to general University and requirements. These requirements are explained in the "Graduate Studies" and the "Counselor Education" sections of this catalog. Students may be disqualified when not meeting program standards (see Counselor Education Student Handbook).

Students are strongly advised to remain in communication with the Counselor Education Program (by attending group advising sessions and meeting with their assigned faculty advisor each semester) as well as with any licensing or credentialing boards related to their area(s) of specialization (i.e., Board of Behavioral Sciences, California Commission on Teacher Credentialing) since licensing and credentialing requirements may change. Catalog rights hold only degree requirements; they do not protect students from changes such as prerequisites required for a given course, field study hours, individual course requirements, or additional requirements imposed by licensing or credentialing agents. Students should note that the Counselor Education course listings are subject to modification.

Minimum Units and Grade Requirement for the Degree

Units required for the MS: 60

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student working toward a Master's degree must file an application for Advancement to Candidacy for the Master's degree. The purpose of this application is to provide certification to the Office of Graduate Studies that the student will complete or has completed the necessary requirements and acceptable electives for the Master's degree with a minimum 3.0 GPA. The Advancement to Candidacy application should be filed upon completion of 30 units in the program.

Note: Students must take the Writing Placement for Graduate Students (WPG) or take a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver before advancing to candidacy.

The Advancement to Candidacy forms, by specialization, are obtained from the Department of Counselor Education Website (http://csus.edu/coe/) within the "Forms and Handbooks" link. Students should complete the relevant form in consultation with their assigned academic advisor. Once the form is endorsed by the student and the advisor, it will be verified by the Department's Graduate Coordinator and then forwarded to the Office of Graduate Studies for final approval. (The form is also available from the Office of Graduate Studies; however, it does not include the Departmental instructions.) The completed form is submitted to the Department's Graduate Coordinator for signature, then forwarded to the Office of Graduate Studies for final approval.

Program Requirements [1,2]

Code	Title	Units
Required Courses for All Specializations (44 Units)		
EDC 210	Multicultural/Ethnic Counseling	3
EDC 214	Dynamics of Human Development	3
EDC 216	Counseling Theory	3
EDC 218	Assessment In Counseling	3
EDC 219	Group Processes in Counseling	3
EDC 231	Diagnosis and Treatment Planning	3
or PSYC 268	Advanced Psychopathology	
EDC 233	Substance Abuse and Addiction	3
EDC 244	Trauma and Crisis Counseling	3
EDC 250	Education Research	3

EDC 252	Legal and Ethical Issues in Professional Counseling	3
EDC 260	Career Development	3
EDC 280	Practicum in Communication	2
EDC 475	Practicum In Counseling	3
EDC 480	Field Study In Counseling	6
Total Units		44

[1] Minimum GPA: 3.0

[2] *Academic Residence*: A minimum of 42 approved semester units in 100-, 200-, and 500-series offerings must be earned in residence at California State University, Sacramento.

Specialization Requirements

Career Counseling (15 units)

Code	Title	Units
EDC 254	Counseling and Psychotropic Medicine	3
EDC 262	Career Counseling Process	3
EDC 264	Seminar in Counseling: Career Systems Development	3
EDC 266	Seminar in Counseling: Career Program Development	3
EDC 268	Career and Job Search	3
Total Units		15

Marriage, Family, and Child Counseling (15 units)

Code	Title	Units
EDC 212	Gender Roles in Counseling	3
EDC 234	Seminar: Marriage and Family Counseling	3
EDC 254	Counseling and Psychotropic Medicine	3
EDC 272	Counseling Children and Youth	3
EDC 476	Practicum in Marriage, Family and Child Counseling	1
Select 2 units of electives		2
Total Units		15

School Counseling (15 units)

Code	Title	Units
EDC 234	Seminar: Marriage and Family Counseling	3
EDC 242	Play and Art in Therapy with Children	3
EDC 270	Organization and Administration of School Counseling Programs	3
EDC 272	Counseling Children and Youth	3
EDC 274	Guidance and Consultation in School Counseling	3
Total Units		15

Rehabilitation Counseling (15 Units)

Code	Title	Units
EDC 239	Foundations in Rehabilitation Counseling	3
EDC 240A	Psychological, Social and Medical Aspects of Disability, A	3
EDC 240B	Psychological, Social and Medical Aspects of Disability, B	3
EDC 254	Counseling and Psychotropic Medicine	3
EDC 263	Case Practices in Rehabilitation Counseling	3

Culminating Requirement (1 Unit)

Written Examination. All students in the M.S. in Counseling program must enroll in EDC 500[1] during their first semester in the program and complete the Counselor Preparation Comprehensive Examination (CPCE). In addition, all students must prepare a final case study paper on a selected client from their current fieldwork experience.

In order to pass this multiple choice examination, a student must meet the minimum criterion score set by the Counselor Education Program. Categories covered include:

- Human Growth and Development
- Social and Cultural Foundations
- Helping Relationships
- Group Work
- Career and Lifestyle Development
- Appraisal
- Research and Program Evaluation
- Professional Orientation and Ethics

In order to pass the final case study paper, a student must obtain a score of “Meet Standard” on all elements of the case study rubric for the student’s specialization.

[1] Department petition required the semester prior to enrollment.

Preliminary Administrative Services Credential

Total units required for Credential: 24

Program Description

Educational Leadership and Policy Studies' Preliminary Administrative Services Credential program aims to develop P-12 educational leaders from diverse backgrounds who will positively impact P-12 educational settings. The program specifically focuses on cultivating leaders who promote learning, equity, social justice and achievement for all students.

Educational Leadership and Policy Studies seeks to prepare transformational leaders with the capacity to effectively facilitate and manage change.

Admission Requirements

1. Completion of a baccalaureate degree at the time of application;
2. GPA in the last 60 units of 2.5 or better;
3. Completion, and successful review, of CSU Mentor and program Supplemental application;
4. A minimum of 4 years teaching experience in a P-12 educational setting; and
5. Successful interview with faculty, demonstrating:

- Preparation for graduate level study
- Leadership experience
- Familiarity with current issues in education
- Knowledge of conflict resolution and negotiation skills
- Knowledge of P-12 education as a field
- Entry level understanding of ethical leadership
- Vision for P-12 education

Admission Procedures

Prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, Riverfront Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all colleges and universities attended, *other than Sacramento State.*

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

The graduate degree program is subject to general University and Departmental requirements. These requirements are explained in the Graduate Degree Requirements (p. 79) section of the University Catalog.

Program Requirements

Code	Title	Units
Required Courses (18 Units)		
EDLP 200	Diversity and Equity in Educational Leadership [1]	3
EDLP 201	Foundations of Educational Leadership [1]	3
EDLP 202	School Law and Ethics of Educational Leadership,Education Law and Ethics of Educational Leadership [3]	3
EDLP 203	Foundations of Educational Leadership,School Finance [2]	3
EDLP 205 Instructional Leadership (New Course Approved)		3
EDLP 209 Organizational Systems and Human Resources (New Course Approved)		3
Required Direct Field Experience (6 Units)		
EDLP 495A	Field Study in Educational Leadership [1]	3
EDLP 495B Field Study in Educational Leadership (New Course Proposed)		3
Total Units		24

1. To be taken fall semester.
2. To be taken spring semester.
3. To be taken in summer session.

Preliminary Administrative Services Internship Credential

Total units required for Credential: 68

Program Description

Students who are specializing in School Counseling and intend to be employed in California will need to obtain one of the following two school counseling service credentials:

- Pupil Personnel Services School Counseling Credential
- Pupil Personnel Services School Counseling Internship Credential

Admission Requirements

All applicants must meet all Preliminary Administrative Services Credential admission requirements AND must have been appointed to an administrative position by student's employing school district.

Note: Detailed requirements and procedures for admission to the Administrative Internship program may be obtained at the Department.

Program Requirements

Code	Title	Units
Required Courses (39 Units)		
EDLP 200A	Diversity and Equity in Educational Leadership [1]	3
EDLP 201A	Foundations of Educational Leadership [1]	3
EDLP 255	Field Experience Seminar	3
EDLP 401	Internship On-the-Job Experience [1]	8
EDLP 402	Internship On-the-Job Experience [2]	8
EDLP 403	Internship On-the-Job Experience [3]	8
EDLP 413	Supplemental Internship Experience [3]	6
Interns that require an additional semester may take the following classes (14 Units)		
EDLP 404	Internship On-the-Job Experience [4]	8
EDLP 414	Supplemental Internship Experience [4]	6
Other Required coursework (15 Units)		
EDLP 202A	Legal Basis of Education [3]	3
EDLP 203A	Financial Resources Planning and Allocation [3]	3
EDLP 205A	Curriculum and Instructional Leadership in K-12 Schools [2]	3
EDLP 209A	Human Resources and Supervision [2]	3
EDLP 250	Education Research [1]	3
Total Units		68

1. Courses taken first semester
2. Courses taken second semester
3. Courses taken third semester
4. Courses taken fourth semester.
   This is a three semester program but students will have the option of taking an additional (fourth) semester if needed.

Pupil Personnel Services School Counseling Credential

Total units required for Credential: 15

Program Description

California schools, kindergarten through high school, require their school counselors to have the PPS-SC. Students pursuing the 57-unit PPS-SC Credential follow the exact same course requirements as students with the 60-unit Master's in Counseling Degree objective who are specializing in school counseling, with the exception of a 3-unit Culminating Requirement. The 60-unit master's degree is not required, although most students elect to complete the degree. In addition to the PPS-SC course requirements, individuals who obtain the credential must pass the California Basic Educational Skills Test (CBEST), required for all K-12 credentials in California. The program meets all standards

established by the California Commission for Teacher Credentialing (CCTC).

Students pursuing the Pupil Personnel Services School Counseling Credential follow the same course requirements, with the exception of the Culminating Requirement, as do master's degree students with the School Counseling specialization objective.

Note: This program is not open to applicants who have completed master's in counseling degrees from other institutions.

Program Requirements

Code	Title	Units
EDC 234	Seminar: Marriage and Family Counseling	3
EDC 242	Play and Art in Therapy with Children	3
EDC 270	Organization and Administration of School Counseling Programs	3
EDC 272	Counseling Children and Youth	3
EDC 274	Guidance and Consultation in School Counseling	3
Total Units		15

Pupil Personnel Services School Counseling Internship Credential

Total units required for Credential: 59

Program Description

The PPS-SCI enables school districts and other educational agencies to place candidates in school counseling positions prior to the completion of credential requirements, provided that the CBEST and practicum coursework have been passed. Requests must originate in writing from the district superintendent or other appropriate officers. The program meets all standards established by the California Commission for Teacher Credentialing (CCTC).

The Pupil Personnel Services Internship Credential Program is limited only to students who are already classified students in the Department of Counselor Education in the School Counseling Specialization. This program is not open to applicants from other institutions.

Admission Requirements

Requests to enter the Pupil Personnel Services School Counseling Internship Credential program must originate in writing from the district superintendent or other appropriate officer stating that the individual is in a position or being offered a position (for the duration of at least one year) which requires the authorization of a Pupil Personnel Services Credential in School Counseling. Issuance of the Internship Credential requires passage of the CBEST, along with all admission requirements for the Counselor Education Department.

Program Requirements

Code	Title	Units
Required Courses (59 Units)		
EDC 210	Multicultural/Ethnic Counseling	3
EDC 214	Dynamics of Human Development	3
EDC 216	Counseling Theory	3
EDC 218	Assessment In Counseling	3
EDC 219	Group Processes in Counseling	3
EDC 231	Diagnosis and Treatment Planning	3
EDC 233	Substance Abuse and Addiction	3
EDC 234	Seminar: Marriage and Family Counseling	3
EDC 242	Play and Art in Therapy with Children	3
EDC 244	Trauma and Crisis Counseling	3
EDC 250	Education Research	3
EDC 252	Legal and Ethical Issues in Professional Counseling	3
EDC 260	Career Development	3
EDC 270	Organization and Administration of School Counseling Programs	3
EDC 272	Counseling Children and Youth	3
EDC 274	Guidance and Consultation in School Counseling	3
EDC 280	Practicum in Communication	2
EDC 475	Practicum In Counseling	3
EDC 480	Field Study In Counseling	6

Pupil Personnel Services School Psychology Endorsement Credential

Total units required for Credential: 89-98

Program Description

The Pupil Personnel Services School Psychology Endorsement Credential is administered by the California Commission on Teacher Credentialing (CCTC). California State University, Sacramento is accredited by the CCTC to award this credential to students meeting program requirements. The credential is required to practice as a school psychologist in the state of California. Possession of the MA in Education (School Psychology) or its equivalent, and the Pupil Personnel Services School Psychology Endorsement Credential also prepares an individual to meet the academic requirements for the California's Licensed Educational Psychologist license administered by the Board of Behavioral Science Examiners, Department of Consumer Affairs.

Unique strengths of the program include supervised training in a clinic setting, early field experience in schools that includes a minimum 200-hour field placement in public school settings, and instruction by faculty who hold school psychology credentials.

The program also offers a CCTC approved internship in school psychology. The internship is typically paid and interns are selected by employing districts. Students are not eligible for the CCTC internship option until they are ready to register for EDS 441A, usually in the fifth semester of the program. A minimum 1200-hour internship, completed in not more than four semesters, is required and must be approved by the Internship Coordinator.

Program Requirements

The Pupil Personnel Services School Psychology Endorsement Credential requires the program outlined for the MA in Education (School Psychology) (p. 435) plus additional coursework. The requirements listed below include both MA in Education (School Psychology) courses AND the practicum and fieldwork requirements that are unique to the credential.

Note. Students who were awarded an appropriate graduate degree prior to beginning the Pupil Personnel Services School Psychology Endorsement Credential may (with the approval of relevant faculty) substitute prior course work for selected courses listed in this Plan of Study Grid.

First Semester		Units
EDC 210	Multicultural/Ethnic Counseling	3
EDS 201	Legal Aspects of Special Education	3
EDS 231	Group Process in School Psychology	3
EDS 245	Psychology In The Schools	3
EDS 248	Human Development and Learning	3
	Units	15
Second Semester		
EDC 250	Education Research	3
EDS 241	Counseling and Psychotherapy for School Psychologists	3
EDS 242A	Cognitive Assessment	3
EDS 242B	Cognitive Assessment Lab [1]	4
EDS 440	Practicum in Individual Counseling/School Psychology [1]	3
	Units	16
Third Semester		
EDS 240	Functional Assessment of Behavior	3
EDS 243A	Assessment Practicum A [1]	3
EDS 246A	Preventive Academic Interventions	3
EDS 244	Social, Emotional and Behavioral Assessment	3
EDS 439A	Early Fieldwork in School Psychology [1]	2 - 5
	Units	14-17
Fourth Semester		
EDS 243B	Assessment Practicum [1]	3
EDS 246B	Preventive Mental Health Interventions	3
EDS 247	Assessment of Special Needs	3
EDS 439B	Early Fieldwork in School Psychology [1]	2 - 5
EDS 249 or EDS 541	Special Seminar: School Psychology or Master's Project: Education/School Psychology (Plan B)	3 - 6
	Units	14-20
Fifth Semester		
EDS 441A	Internship in School Psychology [1]	15
	Units	15
Sixth Semester		
EDS 441B	Internship in School Psychology [1]	15
	Units	15
	Total Units	89-98

[1] This practicum/fieldwork course is a unique requirement for the Pupil Personnel Services School Psychology Endorsement Credential.

Reading/Language Arts Specialist Credential

Total units required for Credential: 24

Program Description

A graduate student may earn a Reading/Language Arts Specialist Credential (issued by CCTC) by completing the courses listed below. This credential prepares teachers for literacy related teaching positions pre K-12 as well as for leadership roles at school and district levels. Enrollment in the Master's program is not required provided that the following admission requirements are met.

Note: Teachers must have three years of teaching experience before the Reading/Language Arts Specialist Credential can be awarded.

Admission Requirements

Admission to the Reading/Language Arts Specialist Credential requires:

- a valid California Basic Teaching Credential (e.g., Multiple Subject or Single Subject Credential);
- a minimum 3.0 GPA in the last 60 units;
- successful completion of a basic course in the Teaching of Reading from an accredited university; if reading methods course is older than seven years, must show evidence of: a) current staff development in Language and Literacy by participation in workshops, institutes, etc., (candidates must show documentation); or b) passing the RICA test within the past seven years; and
- completion of the Reading/Language Arts Specialist Credential Application (available in Eureka Hall 203 and on the College of Education's website (http://csus.edu/coe/).

Program Requirements

Code	Title	Units
Required Courses (24 Units)		
Tier I (Take these courses first)		
EDTE 200		3
EDTE 201		3
EDTE 203		3
EDTE 205		3
Tier II (Take these courses ONLY after completion of Tier I)		
EDTE 202		3
EDTE 206		3
EDTE 207		3
EDTE 209		3
Total Units		24

Teaching Credentials

College of Education - Teaching Credentials ***(***https://www.csus.edu/college/education/teaching-credentials/***)***

Preliminary Teaching Credentials Programs

1. Education Specialist: Early Childhood Special Education (ECSE) (p. 509)

2. Education Specialist: Mild/Moderate(M/M) Disabilities Specialist (p. 466)
3. Education Specialist: Mild/Moderate(M/M) Disabilities Specialist with Multiple Subject (p. 471)
4. Education Specialist: Moderate/Severe(M/S) Disabilities Specialist (p. 475)
5. Education Specialist: Moderate/Severe(M/S) Disabilities Specialist with Multiple Subject (p. 480)
6. Multiple Subject, with English Learner Authorization (ELA) (p. 504)
7. Single Subject, with English Learner Authorization (ELA) (p. 513)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, our teacher education programs are accredited by the California Commission on Teacher Credentialing.

Bilingual Authorization

All credential candidates with oral and written fluency as well as cultural/historical knowledge of the target group (Spanish or Hmong) can complete additional requirements to add the Bilingual Authorization (https://www.csus.edu/college/education/teaching-credentials/authorizations.html) in Spanish or Hmong.

Supplementary Authorizations

All credential candidates are eligible to add a variety of supplementary authorizations (https://www.csus.edu/college/education/teaching-credentials/authorizations.html) to the basic teaching credential.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Contact Information

Dr. Deidre Sessoms, Chair
Linda Lugea, Administrative Analyst/Specialist
Eureka Hall 401
(916) 278-6639
Teaching Credentials Website (https://www.csus.edu/college/education/teaching-credentials/)

ALLENDER, DALE

ARELLANO, ADELE

BAKER, SUSAN

BEDDOW, MARGARET

BERTA-AVILA, MARGARITA

BIAGETTI, STEPHANIE

CHAPLIN, MAE

CHO, EUN MI

CHUNG, CHIA-JUNG

CINTRON, JOSE

CLARAVALL, ERIC

COLLADO, CINDY

COUGHLIN, MIMI

DALEY, STEVEN E.

DALY, LANA

DURAN, ELVA

GARDNER, PAULA

GEE, KATHLEEN

GONSIER-GERDIN, JEAN

GONZALES, RACHAEL

HUANG, HUI-JU

IVES, SARAH

LARDY, CORINNE

LIM, BRIAN S.

LOEZA, PORFIRIO

MERRILL, MARCY

MICHALS, ELISA

NORRIS, AAMINAH

NOWELL, LINDA S.

OWENS, WILLIAM THOMAS

PAN, RAVIN

PELLA, SHANNON

PORTER, JENNA

SOLARI, LYNN J

EDMS 213. Strategies for Inclusive Classrooms: Multiple Subject. 3 Units

Prerequisite(s): Admission into a teacher preparation program.
Term Typically Offered: Fall, Spring

This course provides multiple subject and special education candidates with dispositions, knowledge, and skills needed to serve students with disabilities in general education classrooms. Strategies specific to students in their least restrictive environment will be covered emphasizing Universal Design for Learning, Multi-Tiered Systems of Support, social-emotional learning, co-teaching, differentiated instruction, roles and responsibilities of special/general education teachers, peer mediated learning strategies, modifications of standards and learning outcomes for students with disabilities, and assistive technology (low and high tech adaptations).
Cross listed: EDSS 282/EDSP 293/EDMS 213

EDMS 232. Assessment Center Laboratory for Multiple Subject Candidates. 2 Units

Corequisite(s): EDMS 430B or EDMS 434B or EDSP 420B.
Term Typically Offered: Fall, Spring

Individualized support to guide multiple subject candidates through the process of completing and submitting the culminating Teaching Performance Assessment (TPA) mandated by the program's accrediting body and completion of their electronic program portfolio. The signature assignments, formative TPA assessments and summative TPA Teaching Event represent an electronic portfolio embedded throughout the program. In addition, the candidates will complete an annotated bibliography for readings across the credential program.
Credit/No Credit

EDMS 234A. Foundations of Teaching in a Diverse K-8 Classroom - A. 1 Unit

Prerequisite(s): Admission to the Multiple Subject Teacher Credential Program or the Master of Arts in Teaching with Multiple Subject Teaching Credential Program.
Corequisite(s): EDMS 234B
Term Typically Offered: Fall, Spring

Introduction to critical analysis of purpose and process of elementary level public schooling in the U.S. Examination of sociopolitical contexts of public schools and society; educational theories, philosophies, notions of culture and social justice, community and educational practice. Engagement with sociocultural, historical, and philosophical foundations of education, multicultural education, learning theories, and theories of cognitive and social development. Candidates examine own biases and work to mitigate negative impact on student learning. This lecture course paired with breakout discussion (EDMS 234B).

EDMS 234B. Foundations of Teaching in a Diverse K-8 classroom - B. 2 Units

Prerequisite(s): Admission to the Multiple Subject Teacher Credential Program or the MA in Teaching with Multiple Subject Credential Program.
Corequisite(s): EDMS 234A
Term Typically Offered: Fall, Spring

Introduction to critical analysis of purpose and process of elementary level public schooling in the U.S. Examination of sociopolitical contexts of public schools and society; educational theories, philosophies, notions of culture and social justice, community and educational practice. Engagement with sociocultural, historical, and philosophical foundations of education, multicultural education, learning theories, and theories of cognitive and social development. Candidates examine own biases and work to mitigate negative impact on student learning. This discussion course paired with lecture (EDMS 234A).

EDMS 235A. Advanced Principles of Teaching in a Diverse K-8 Classroom - A. 1 Unit

Corequisite(s): EDMS 235B
Term Typically Offered: Fall, Spring

This course is the lecture portion of a two-course series. It deepens candidates' knowledge of theories and practices necessary to execute the Plan-Instruct-Assess-Reflect cycle of mindful teaching for diverse students. Candidates will expand their understandings of how theoretical frameworks for teaching (learning theory, human development theory, multicultural education, inclusive and differentiated education, assessment frameworks, and models of teaching and curriculum planning) are applied in varied public school classrooms and contexts.

EDMS 235B. Advanced Principles of Teaching in a Diverse K-8 Classroom - B. 1 Unit

Corequisite(s): EDMS 235A
Term Typically Offered: Fall, Spring

This course is the discussion portion in a two-course series. In this course, candidates translate theories, concepts and frameworks presented in Advanced Principles of Teaching A into strategies and practices for instruction, assessment, and curriculum development in the K-8 classroom. Candidates will create activities, develop lesson and unit plans that integrate and apply various theories and frameworks for instruction. Candidates will design, lead and engage in simulations, peer teaching, and workshops.

EDMS 241. Action Research in Multicultural Settings. 5 Units

Prerequisite(s): Admission to the Master of Arts in Teaching with Multiple/Single Subject Teaching Credential program; Completion of EDMS 434B or EDMS 474B.
Term Typically Offered: Summer only

This course focuses on an introduction to Action Research in multicultural educational settings. It includes an overview of various research paradigms, with emphasis on Action Research and Teacher Action Research. Additional topics covered in this course include: critical pedagogy, forms of multicultural education, and issues related to educational equity and providing access of opportunity to students from underserved populations.
Cross listed: EDSS 241

EDMS 242. Critical Perspectives in Classroom Inquiry. 3 Units
Prerequisite(s): EDMS 241 or EDSS 241.
Term Typically Offered: Fall only

This course is part of the Master of Arts in Teaching with Multiple Subject Teaching Credential Program and builds on the knowledge that students gain in EDMS/EDSS 241. During this course students will complete a literature review of research related to their critical inquiry question. Students will additionally explore the historical and current trends in critical classroom inquiry and consider the implications for schools in diverse settings. Further course activities include developing a Classroom Inquiry Project and submitting the IRB.
Cross listed: EDSS 242.

EDMS 243. Data Collection for Action Research in Multicultural Settings. 3 Units
Prerequisite(s): EDMS 241 or EDSS 241.
Term Typically Offered: Fall only

This course builds students understanding of appropriate types and uses of data in Action Research in multicultural education settings. During this course students will be presented with the sociopolitical contexts for data collection and its subsequent use in educational policy. Students will apply theoretical knowledge by practicing to collect and initially interpreting multiple types of data. These experiences will lay the groundwork for students¿ development and implementation of the data collection plan for their own Classroom Inquiry Projects.
Cross listed: EDSS 243.

EDMS 244. Sociocultural & Sociopolitical Contexts of Data Analysis. 3 Units
Prerequisite(s): EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243
Term Typically Offered: Spring only

This course builds students¿ understanding of appropriate methods of data analysis in Teacher Action Research in multicultural education settings. Students will learn how data analysis has been used to interpret research in diverse school settings. Students will apply theoretical knowledge by analyzing multiple types of data sets form both qualitative and quantitative sources. These experiences will lay the groundwork for students¿ implementation of analysis of their own data for their Action Research inquiry projects.
Cross listed: EDSS 244

EDMS 272. Methods for Teaching Second Language Learners, Multiple Subject (ELD and SDAIE). 3 Units
Prerequisite(s): EDUC 170
Term Typically Offered: Fall, Spring

Focus on teaching candidates the methods, techniques and strategies needed to make content accessible for second language learners. Candidates will learn to use the state ELD standards to create ELD lessons and SDAIE lessons within multicultural framework. Candidates will also learn how to interpret and implement formative and summative assessments. Lecture, demonstration, modeling, group work, discussions, field experience.

EDMS 299. Special Problems: Multiple Subject. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects for Multiple Subject credential candidates at graduate/credential level especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and the Department Chair.
Note: This course may be repeated for up to 9 units of credit.

Credit/No Credit

EDMS 300. Teaching Performance Assessment-Multiple Subjects-Mathematics. 1 Unit
Corequisite(s): EDMS 434B or EDMS 430B or EDSP 420B
Term Typically Offered: Fall, Spring

Candidates in the Teacher Preparation Program must complete the Teaching Event for the Performance Assessment for California Teachers. The Teaching Event requires candidates to plan and teach an instructional sequence in their student teaching placement. They must also assess student learning during this lesson sequence and submit a videotape with material recorded during the lesson sequence. The Teaching Event is a summative assessment and one of several requirements that must be completed in order to receive a recommendation for a teaching credential.
Credit/No Credit

EDMS 310C. Pedagogy C: Classroom Instruction and Positive Management for Diverse Classrooms. 1 Unit
Prerequisite(s): Admission to Multiple Subject Credential Program. Successful completion of EDMS 310B.
Term Typically Offered: Fall, Spring

Reinforces the cycle of teaching: lesson planning, implementing, reflection and application at a deeper developmental level. Intensive support for classroom management and discipline; disruptive behaviors; problem-solving communication with district administrators, parents at community level as child advocates. Emphasis on differentiating instruction to individual needs of diverse learners. Scaffolding to support growth and developmental stages of the learning-to-teach process and professional responsibilities. Infusion of e-portfolio development and the integration of technology.
Credit/No Credit

EDMS 314. Mathematics Curriculum and Instruction for the Diverse K-8 Classroom. 3 Units
Term Typically Offered: Fall, Spring

Focusing on a 'meaning approach' to mathematics which prepares candidates to teach mathematics content standards for California public schools to all students, including English Learners and special needs; to use analytical and critical thinking skills in mathematics; and to infuse mathematics topics, themes, and concepts into other subject areas. Discussion, field visits, microteaching, demonstrations, presentations, and technological applications for mathematics will be included.

EDMS 315. History-Social Science Curriculum and Instruction for the Diverse K-8 Classroom. 3 Units
Term Typically Offered: Fall, Spring

Prepares teacher candidates in multiple subjects to teach the history-social science content standards for California public schools to all students, including English Learners and special needs; to use analytical and critical thinking skills in history and social science; and to integrate history-social science topics, themes, and concepts with other subject areas. Pedagogical topics include the use of timelines, maps, artifacts, case studies, simulations, literature, art, multiple perspectives, SDAIE, cooperative projects, and research activities.

EDMS 316. Science Curriculum and Instruction for the Diverse K-8 Classroom. 3 Units
Term Typically Offered: Fall, Spring

Knowledge of basic principles and strategies related to science education, incorporating an expanded treatment of science pedagogy, manipulatives, technological supports, accommodations, adaptive instructional techniques, and other strategies specially suited to the instruction of diverse student populations.

EDMS 317. Visual and Performing Arts Methods for the Diverse K-8 Classroom. 1 Unit
Prerequisite(s): Admission to Multiple Subject Teacher Credential Program.
Term Typically Offered: Fall, Spring

Prepares candidates in multiple subjects to teach the visual and performing arts content standards for California public schools to all students, including English Learners, and special needs students, through interrelated activities with involvement in specific teaching strategies which are effective in achieving the goals of developing artistic perception and creative expression, understanding the cultural and historical origins of the arts, making informed judgments about the arts, and understanding the arts connections and relationships across curriculum.

EDMS 319A. Language and Literacy I for the Diverse K-8 Classroom. 3 Units
Term Typically Offered: Fall, Spring

Develops understandings, attitudes, and competencies needed for effective instruction of language and literacy for mainstream populations, English Learners, and students with special needs. Instructional strategies for teaching concepts about print, phonemic awareness, phonics, fluency, vocabulary, and comprehension of narrative/expository texts. Instructional planning aligned with current content standards, and other content and preparation standards as appropriate. Assessment strategies that inform planning and instruction. Special emphasis on literacy instruction in bilingual and multilingual settings. Lecture and discussion, includes a field experience component.

EDMS 319B. Language and Literacy II for the Diverse K-8 Classroom. 2 Units
Prerequisite(s): EDMS 319A
Term Typically Offered: Fall, Spring

Extends understandings, attitudes, and competencies needed for effective instruction of language and literacy for mainstream populations, English Learners, and students with special needs. Instructional strategies for teaching narrative/expository text and spelling. Instructional planning aligned with current content standards, and other content and preparation standards as appropriate. Assessment strategies that inform planning and instruction. Special emphasis on literacy instruction in bilingual and multilingual settings. Lecture and discussion, includes a field experience component.

EDMS 330A. Educational Technology Lab I. 1 Unit
Prerequisite(s): Admission to Multiple Subject Credential Program.
Term Typically Offered: Fall only

Educational technology lab course will prepare the candidates use technology for three areas: coursework in the teaching credential program, enhancing teaching and learning and eportfolio development. Students are introduced to an array of digital technologies for teaching relevant for K-12 student learning. Among the topics include digital literacy, copyright, fair use, Internet safety, Creative Commons, presentation tools, ISTE standards, technology and Teaching Performance Expectations, presentation tools, interactive whiteboards, and many others. The focus is on students learning about technology use in teaching and learning in K-12 schools. Candidates are prepared to use technology in the Teaching Credential Program and for the development of an electronic portfolio.
Credit/No Credit

EDMS 330B. Educational Technology Lab II. 1 Unit
Prerequisite(s): EDMS 330A
Term Typically Offered: Spring only

In this course, candidates will learn to create, use, and manage appropriate and relevant educational technological processes and resources. The candidates will deepen their knowledge of technology in the K-12 public school environment and apply their understanding to improve student engagement and student learning outcomes. The candidates will also learn to use technology associated with the Teaching Credential Program and finalize their electronic portfolio for the program.
Credit/No Credit

EDMS 334C. Fundamentals of Teaching in a Diverse K-8 Classroom. 2 Units
Prerequisite(s): Admission into the Multiple Subject Credential Program or the MA in Teaching with Multiple Subject Teaching Credential program.
Term Typically Offered: Fall, Spring

This course introduces the relationship between elements of teaching and instructional organization to effectively teach in culturally and linguistically diverse and inclusive elementary classrooms through the use of backwards design, Universal Design for Learning, and differentiated instruction. The focus will be grounded in a Social Justice/Multicultural paradigm. Emphasis will include students' development as a teacher, curriculum development, long and short-term planning, and specific theories for instructional practice.

EDMS 401. Observation and Participation in Elementary Schools. 2 Units
Prerequisite(s): Admission to Teacher Preparation Program
Term Typically Offered: Fall, Spring

Observations in classes in several situations and grade levels; service as an assistant in at least one classroom. Visits to community agencies which serve the school population.
Credit/No Credit

EDMS 420A. Field Experience: Multiple Subject. 4 Units
Prerequisite(s): Admission to Teacher Preparation Program.
Term Typically Offered: Fall, Spring

Two semesters of student teaching multiple subjects in public school classrooms providing experiences at two grade levels and with different cultural groups. Intensive, realistic experiences with continuous and varied responsibilities. This first semester student teaching with integrated methods course work requires half-day participation. Experiences in classroom teaching and participation in many of the out-of-class duties of a teacher.
Credit/No Credit

EDMS 420B. Student Teaching: Multiple Subject. 10 Units
Prerequisite(s): Admission to Teacher Preparation Program.
Term Typically Offered: Fall, Spring

Second semester student teaching with integrated methods course work requires full-day participation of the student. Emphasis on classroom teaching and further experience with community services.
Credit/No Credit

EDMS 430A. Student Teaching I Basic. 5 Units
Prerequisite(s): Admission to Teacher Preparation Program
Term Typically Offered: Fall, Spring

One semester of teaching multiple subjects in a public school setting with diverse learners. This first semester of student teaching is completed concurrently with integrated coursework.
Credit/No Credit

EDMS 430B. Student Teaching II: Basic. 7 Units
Prerequisite(s): Admission to Teacher Preparation Program
Term Typically Offered: Fall, Spring

One semester of teaching multiple subjects in a public school setting with diverse learners. This second semester of student teaching is completed concurrently with integrated coursework and focuses primarily on planning, implementing, and assessing instruction for whole classes of students.
Credit/No Credit

EDMS 434A. Field Experience for Elementary Teachers. 6 Units
Prerequisite(s): Admission to the Multiple Subject Credential program
Term Typically Offered: Fall, Spring

Candidates complete field experience in public school classrooms concurrently with integrated coursework. Field experiences focus primarily on observing model lessons and activities and on collaborative planning, implementing and assessing instruction for small groups of students.
Credit/No Credit

EDMS 434B. Student Teaching for Elementary Teachers. 8 Units
Prerequisite(s): EDMS 434A
Term Typically Offered: Fall, Spring

One semester of teaching multiple subjects in a public school setting with diverse learners. This final semester of student teaching is completed concurrently with integrated coursework and focuses primarily on planning, implementing and assessing instruction for whole classes of students.
Credit/No Credit

EDMS 500. Classroom Inquiry Project: Culminating Experience. 3 Units
Prerequisite(s): EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243.
Term Typically Offered: Spring only

Course establishes that master candidates have acquired the essential knowledge and skills covered in each of the courses leading to the Master of Arts in Teaching with Multiple Subject Teaching Credential. Proficiency is demonstrated through a comprehensive examination of essential content of each course in the master's degree program. Candidates will produce a written portfolio, accompanying executive summary, and oral presentation of the body of work completed during the Master of Arts in Teaching with Multiple Subject Teaching Credential Program.
Cross listed: EDSS 500

Credit/No Credit

EDSP 119. Legal and Social Foundations of Special Education. 3 Units
Term Typically Offered: Fall, Spring

Course provides analysis and practical application of social, legal, and ethical practices in the field of special education. Provides candidates with an overview of state and federal laws and regulations, current case law, and up-to-date mandates from No Child Left Behind. Competencies needed to develop individualized programming for children with disabilities (IEP and IFSP), verification criteria, parent's rights, IEP development and implementation, goal and objective development, placement procedures and IEP monitoring will be emphasized.

EDSP 201. Developing Collaborative Partnerships with Families, Professionals, and Communities in ECSE. 3 Units
Prerequisite(s): Admission into the MA in Teaching with Education Specialist Early Childhood Special Education Teaching Credential.
Term Typically Offered: Fall only

Overview of ECSE historical, philosophical, theoretical/empirical, and legal bases for family centered, relationship based special education services. Emphasis is on developing cross-cultural competence and a strengths-based, student centered approach to empowering families and advocating for students with disabilities. Students will develop skills required to build and maintain collaborative relationships through effective communication and teaming with families, students, professional colleagues, and community members. These skills include person-centered planning, coaching, curriculum planning, and IFSP/IEP development.

EDSP 205. Methods in Access and Inclusion in the Core Curriculum: Mod/Severe Disabilities. 2 Units
Prerequisite(s): EDSP 119
Corequisite(s): EDSP 413 or EDSP 414
Term Typically Offered: Fall, Spring

Focus will be on the following three areas 1) unit design, varied and modified outcomes, and evaluation of student skills; 2) instructional implementation strategies, including modeling, demonstration, direct and indirect, discovery, and cognitive/meta-cognitive strategies; 3) adaptations and accommodations which will enhance success for the full range of students with disabilities within the general education curriculum.

EDSP 206. Collaborative Program Planning with Families, Professionals, and Communities. 3 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or advisor approval
Term Typically Offered: Fall, Spring

Students will develop skills in the areas of: family collaboration; school and community collaboration in the context of IEP development and school partnerships; cross-cultural competence; communication; person-centered planning/future planning, partnering with families; transdisciplinary teaming to develop the IEP and the ITP; and facilitating social relationships and friendships as part of the school experience.

EDSP 207. Secondary/Post-Secondary Methods and Transition Planning: Moderate/Severe Disabilities. 2 Units
Prerequisite(s): EDSP 119
Corequisite(s): EDSP 413 or EDSP 414
Term Typically Offered: Fall, Spring

Students will develop knowledge and skills related to strategies for including students with in the middle and high school environment. Students will develop skills in community-based instruction transition planning, in addition to designing outcomes and supports within the general education curriculum. Students will also gain knowledge and skills related to vocational and supported employment, and preparation for work after high school, and how to facilitate a successful transition to post-secondary education, supported living, and supported employment.

EDSP 208. Evidenced-based Assessment and Instruction: Mod/Severe Disabilities. 2 Units
Prerequisite(s): EDSP 119
Corequisite(s): EDSP 414 or EDSP 415
Term Typically Offered: Fall, Spring

Students will be provided with a strong basis in ecological and functional assessment in inclusive school and community environments. Students will develop the ability to: a) set up performance analyses within natural environments; b) map out cognitive initiation vs. performance, and the communication requirements of various settings; c) conduct baselines within general education classrooms, the school, and the community, and develop resulting IEP goals and objectives; and, d) write effective and systematic instructional programs.

EDSP 209. Developing Augmentative & Alternative Communication Systems: Assessment and Intervention. 3 Units
Prerequisite(s): EDSP 119, EDSP 206, EDSP 235 or advisor approval.
Term Typically Offered: Fall, Spring

Participants will learn: a) how to assess communicating behavior from nonsymobolic to symbolic and unintentional to sophisticated in students with disabilities; b) to work with audiologists and ophthalmologists to assess sensory functioning related to communication; c) to develop communication system intervention plans, both low and high tech; and d) how to implement instruction across multiple environments and with multiple partners. In addition, students will learn strategies for facilitating interactions between students with and without disabilities, teaching others to utilize adapted communication systems, and collaboration with varied professionals.

EDSP 210. Assessment and Evaluation in Early Childhood Special Education. 3 Units
Prerequisite(s): Admittance to the Education Specialist Credential Program: Early Childhood Special Education
Term Typically Offered: Fall only

Quality practices in early childhood assessment using a range of culturally appropriate tools and techniques, parent-professional-collaboration, transdisciplinary team assessment, assessment reporting and translating results into intervention planning. Participants will demonstrate skills in planning, carrying out and reporting results of assessments/evaluations for eligibility determination, program planning, and monitoring ongoing progress for infants, young children and their families.

EDSP 211. Curriculum, Intervention Strategies, and Environments in ECSE I: Infants & Toddlers. 3 Units
Prerequisite(s): Admittance to the Education Specialist Credential Program: Early Childhood Special Education
Term Typically Offered: Spring only

Designed to develop the skills necessary to design and implement developmentally appropriate curriculum and intervention strategies for infants and toddlers with disabilities in a range of learning environments including home, center-based and community programs.

EDSP 212. Curriculum, Intervention Strategies, and Environments in ECSE II: Preschool. 3 Units
Prerequisite(s): Admittance to the Education Specialist Credential Program: Early Childhood Special Education
Term Typically Offered: Fall only

Designed to develop the skills necessary to design and implementation developmentally appropriate curriculum and intervention strategies for young children with disabilities in a range of learning environments including home, center-based and community programs. Lecture.

EDSP 216. Understanding the Implications of Developmental Diversity in Children and Youth. 3 Units
Corequisite(s): EDSP 413 or EDSP 478, or program advisor/coordinator approval.
Term Typically Offered: Fall, Spring

Using a critical disability theory perspective, examines early development of young children and youth across developmental areas. Explores: 1) atypical development due to prenatal, perinatal, and early childhood developmental risk factors; 2) childhood development theories and how they support educators' understanding of children, youth, families and developmentally and age appropriate practices; 3) service delivery models and key transitions; and 4) implications of developmental disabilities across the lifespan.

EDSP 217. Positive Behavioral Support: Effective Individual, Class-wide and School-wide Applications. 3 Units
Prerequisite(s): Admission to the MA in Teaching with Education Specialist Moderate/Severe or ECSE Teaching Credential Programs.
Corequisite(s): EDSP 413, EDSP 478, EDSP 476, EDSP 477, or advisor approval.
Students will learn to use functional assessment and positive behavioral supports to enhance the quality of life for children and youth who have mild to serious behavioral challenges. This also includes methods for class-wide and school-wide positive behavioral support. Students will gain an understanding of behavior as communication, supports and instruction to enable the learner to replace challenging behavior with more effective communication skills, and preventative changes to the environment and instruction.

EDSP 218. Instructional Strategies: Low Incidence Disabilities. 3 Units
Prerequisite(s): EDSP 205, EDSP 208, EDSP 414 or advisor approval
Corequisite(s): EDSP 236, EDSP 415 or EDSP 421 or advisor approval
Term Typically Offered: Fall, Spring

Students will learn advanced methods of assessment and instruction for students with moderate to severe and profound disabilities, and multiple disabilities. Students will learn to design assessments and work with transdisciplinary team members to write an integrated assessment report, and present the report. Students will develop IEPs/ITPs based on the transdisciplinary information, write instructional programs using research-based methods, and design methods for monitoring progress using ongoing instructional data.

EDSP 220. Language and Literacy in Inclusive Classrooms I. 3 Units
Term Typically Offered: Fall, Spring

This course provides candidates with the evidence based principles and systematic and explicit techniques to develop phonological awareness, phonics, concepts about print, oral and written language, and word recognition strategies. Candidates will learn techniques specific to assessing a student in reading and applying the information to assist the student with reading difficulties. Accommodations and modifications for students with mild, moderate, and severe disabilities will be emphasized.

EDSP 221. Language and Literacy in Inclusive Classrooms II. 3 Units
Prerequisite(s): EDSP 220
Term Typically Offered: Fall, Spring

Course provides candidates with evidence based principles, systematic and explicit techniques, procedures in reading fluency, comprehension, and vocabulary development. Candidates will learn literal and higher level comprehension strategies that assist students in understanding narrative and expository text. Candidates will receive instruction on the principles, techniques, and procedures for teaching spelling, handwriting, and critical study skills. Accommodations and modifications for students with mild, moderate and severe disabilities will be emphasized.

EDSP 225A. Assessment and Evaluation for Students with Mild/Moderate Disabilities. 2 Units
Prerequisite(s): Admittance to Mild/Moderate/Severe Credential program or permission of respective special education coordinator.
Corequisite(s): EDSP 225B
Term Typically Offered: Fall, Spring

Candidates examine relationships between assessment, curriculum, and instruction through application of a variety of formal and informal assessments and curricula. Candidates administer and interpret norm-referenced, criterion-referenced, and curriculum-based instruments that assess academic achievement, social behavior, and emotional functioning. Candidates learn basic principles and strategies related to using and communicating results of a variety of assessment and evaluation approaches. Authentic assessment strategies, specifically designed to support and inform instruction, will be emphasized.

EDSP 225B. Assessment and Evaluation for Students with Mild/Moderate Disabilities Lab. 1 Unit
Corequisite(s): EDSP 225A
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 225A) in a setting serving students with mild/moderate disabilities.
Credit/No Credit

EDSP 229. Curriculum and Instruction Strategies for Students with Mild/Moderate Disabilities. 3 Units
Prerequisite(s): Admittance to Mild/Moderate, Moderate/Severe, Multiple Subjects, and Single Subject Credential programs or permission of respective special education advisors.
Term Typically Offered: Fall, Spring

Methods for designing and implementing instruction for students with mild/moderate disabilities. Topics include typical/atypical human development, resilience and protective factors, evidenced-based instructional strategies, designing and managing environments and materials, differentiated instruction, collaborative teaming to design and evaluate integrated services, technology (including assistive technology) to support access to general education curriculum, implementation of UDL, modifications and adaptations of state standards, components of IDEA and their implication for a multidisciplinary approach developing IEPs for special needs students included in general education classrooms.

EDSP 229B. Curriculum and Instruction Strategies for Students with Mild/Moderate Disabilities Lab. 1 Unit
Corequisite(s): EDSP 229
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 229) in a setting for students with mild/moderate disabilities who receive special education services. Students will verify multiple experiences across the age-span and in inclusive settings, agencies, and other natural environments.
Credit/No Credit

EDSP 230. Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges. 3 Units
Term Typically Offered: Fall, Spring

Comprehensive study and application of intervention strategies that enhance the quality of life for students with mild/moderate disabilities. Students will learn (a) how to design learning environments that prevent and reduce problem behaviors, (b) learn how to identify and assess problem behavior using functional behavioral assessment methods, (c) learn how to design and implement positive behavioral support interventions which are in compliance with federal IDEA law, and (d) apply behavioral procedures on a systemic, school wide basis.

EDSP 230B. Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges Lab. 1 Unit
Prerequisite(s): Admittance into Mild/Moderate or Moderate/Severe Credential program, APE program, or permission of respective special education coordinator.
Corequisite(s): EDSP 230
Term Typically Offered: Fall, Spring

Comprehensive study and application of intervention strategies that enhance the quality of life for students with mild/moderate disabilities. Students will learn (a) how to design learning environments that prevent and reduce problem behaviors, (b) learn how to identify and assess problem behavior using functional behavioral methods, (c) learn how to design and implement positive behavioral support interventions which are in compliance with federal IDEA law, and (d) apply behavioral procedures on a systemic, school wide basis.

EDSP 232. Effective Communication and Collaborative Partnerships. 2 Units
Term Typically Offered: Fall, Spring

The content provided in this course is directed toward the preparation of pre-service and/or intern teachers of students with mild/moderate disabilities. To facilitate positive and inclusive environments, the course provides instruction in effective communication, collaboration, and consultation with individuals with disabilities and their family, primary caregivers, general/special education teachers, related service personnel, administrators, the business community and public/non-public agencies. Candidates will also be supported in the development of a Preliminary Mild/Moderate Education Specialist Portfolio.

EDSP 233. Final Student Teaching Seminar: Mild/Moderate. 1 Unit
Prerequisite(s): EDSP 232
Corequisite(s): EDSP 472 or EDSP 473
Term Typically Offered: Fall, Spring

Designed to allow the special education candidate teacher/intern to focus upon two overall issues pertaining to their specific needs: problems and resolutions particular and general to their teaching assignment and culminating portfolio development.
Credit/No Credit

EDSP 234. Directed Fieldwork Seminar: Early Childhood Special Education. 1 Unit
Prerequisite(s): Admittance to the Education Specialist Credential Program: Early Childhood Special Education
Corequisite(s): EDSP 474 or EDSP 475 or EDSP 476 or EDSP 477
Term Typically Offered: Fall, Spring, Summer

Designed to allow the ECSE teacher candidate to focus on two overall issues: Problems and resolutions particular and general to their teaching assignment, and the development and/or refining of a preliminary Level I Performance Portfolio.
Note: May be repeated for up to 2 units of credit.

Credit/No Credit

EDSP 235. Field Seminar in Program and Instruction: Mod/Severe Disabilities. 2 Units
Prerequisite(s): Admittance into Mild/Moderate or Moderate/Severe Credential program or advisor approval
Term Typically Offered: Fall, Spring

This field seminar will provide group discussion as well as direct instructional guidance in classrooms and schools in which students in the Moderate/Severe Specialist Credential or Autism Spectrum Disorders Added Authorization (ASDAA) are conducting their assignments.

EDSP 236. Student Teaching Seminar: Moderate/Severe Disabilities. 1 Unit
Prerequisite(s): EDSP 208 and EDSP 414
Corequisite(s): EDSP 218, EDSP 415 or EDSP 421 or advisor approval
Term Typically Offered: Fall, Spring

This seminar accompanies the final Student Teaching II experience. Students will meet for two hours, eight times, during the semester to discuss their experiences and problem solve any questions or challenges related to their Student Teaching II requirements. Since this is the advanced experience, it is expected that the seminar will be primarily focused on professional issues related to the collaborative implementation of effective programs for students with moderate/severe disabilities. At each meeting there will be topics for discussion generated by the professor, but also time for collaborative problem solving around specific students and program issues in the student teaching settings.
Credit/No Credit

EDSP 237. Transition Strategies for Students with Mild/Moderate Disabilities. 3 Units
Term Typically Offered: Fall, Spring

Candidates will examine legal mandates specific to transition planning and implementation, and evaluate transitional life experiences for students with mild/moderate disabilities across the lifespan. Candidates will explore and implement social skills, and career and vocational program planning for secondary students with Mild/Moderate disabilities. Planning will include the student, community services, and other community resources such as parents and various professionals that will lead to increased student learning with career goals and objectives to support their transition to post-school settings.

EDSP 237B. Transition Strategies for Students with Mild/Moderate Disabilities Lab. 1 Unit
Corequisite(s): EDSP 237.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 237) in inclusive setting for students with mild/moderate disabilities.
Credit/No Credit

EDSP 250. Education Research. 3 Units
Prerequisite(s): Advancement to Candidacy for Special Education concentration; passing WPG exam for all other concentrations.
Term Typically Offered: Fall, Spring

Studies qualitative and quantitative methods in the development of reliable knowledge in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies. Classified students are encouraged to take this course early in their graduation programs.

EDSP 251. Education in a Democratic, Pluralistic Society. 3 Units
Prerequisite(s): Passing WPG exam
Term Typically Offered: Fall, Spring

Advanced study of social and psychological issues which need to be considered in education relating to the client, the educator, the community and society. Addresses implications of theories of learning, assessment, individual differences and social/political influences.

EDSP 276A. Education of Students with Emotional and Behavioral Disorders. 2 Units
Prerequisite(s): Admittance into Mild/Moderate or Moderate/Severe Credential or M.A. in Education programs and EDSP 230 or equivalent
Corequisite(s): EDSP 276B
Term Typically Offered: Fall, Spring

Concentrate on the assessment, characteristics, interventions and classroom strategies, which uniquely address the educational needs of students with emotional and behavioral disorders. Students will review current laws, policies and selected literature specific to students identified as EBD and their families. Strategies to create and promote collaborative partnerships with parents, mental health representatives and/or other service providers will be presented.

EDSP 276B. Education of Students with Emotional and Behavioral Disorders - Lab. 1 Unit
Prerequisite(s): Admittance into Mild/Moderate or Moderate/Severe Credential or M.A. in Education programs and EDSP 230 or equivalent
Corequisite(s): EDSP 276A
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 276A) in serving students with emotional and behavioral disorders. Students are required to participate in class visitations, agency visitations, and interviews.

EDSP 281. Critical Issues in Special Education Research and Practice. 6 Units
Prerequisite(s): Successful completion of Education Specialist Credential coursework and student teaching--Mild/Moderate Disabilities Credential, Moderate/Severe Disabilities Credential or Early Childhood Special Education Credential program
Term Typically Offered: Summer only

This course provides an introduction to Action Research in the field of special education. The overall goal is to improve teacher effectiveness in the classroom through research and develop teacher-researchers, producers and consumers of empirical knowledge. Students will develop research writing skills to understand problems of practice, critical issues, and policy in special education. The course is designed to facilitate connections between methodological paradigm and teaching practices related to doing action research and covers quantitative, qualitative, and mixed-methods research approaches.

EDSP 282. Methods in Research Design and Practice with Diverse Children, Youth, and Families. 3 Units
Prerequisite(s): EDSP 281
Term Typically Offered: Fall only

This course is the second course in the final research sequence taken by the candidates in the Masters of Arts in Teaching for all three special education fields. The focus of this course is four-fold: 1) deepening candidates' knowledge of methods in both qualitative and quantitative research design intended for action research; 2) development of each candidate¿s action research proposal; 3) preparing for Institutional Review Board (IRB); and 4) completing a draft of chapters 1, 2, and 3.

EDSP 283. Critical Analysis and Interpretation of Data within Diverse School and Community Contexts. 3 Units
Prerequisite(s): EDSP 281, EDSP 282
Corequisite(s): EDSP 500
Term Typically Offered: Spring only

This course focuses on students¿ understanding and use of appropriate data analysis methods for teacher action research in diverse schools/communities. Students will learn to critically analyze and interpret data from qualitative, quantitative and mixed-methods sources by using theoretical knowledge or conceptual frameworks, and to present findings to inform teacher practices and support systems change/reform efforts to improve the lives of individuals with disabilities. Students also will analyze, write and present findings from their thesis research in written and oral/visual formats.

EDSP 290. Seminar for Culminating Experiences. 3 Units
Prerequisite(s): Approval of Culminating Experience Proposal or instructor permission.
Seminar to focus on topics/elements/expectations to be included in the culminating experiences (thesis, project, or comprehensive exam). Successful completion of the course requires completion of Chapters 1 and 2 of the thesis/project and the beginning of Chapter 3 for the MA thesis/project option or an exam petition to be approved by the departmental exam committee, including annotated bibliographies and position papers on the focal topics for the MA comprehensive exam option.

EDSP 292. Teaching English Learners with Disabilities. 3 Units
Term Typically Offered: Fall, Spring

Candidates will learn basic principles, strategies and procedures for teaching English Learners with disabilities. Compliance and legal issues related to English Learners identified with disabilities, including writing linguistically appropriate goals and objectives, and implementing culturally responsive strategies will be addressed. Systematic and explicit strategies for accommodating and modifying curricular materials for English Learners with disabilities in inclusive classrooms will be emphasized.

EDSP 292B. Teaching English Learners with Disabilities Lab. 1 Unit
Corequisite(s): EDSP 292
Term Typically Offered: Fall, Spring

Field-based practice lab will be a synthesis and application of course content (EDSP 292) in the implementation of culturally responsive, systematic and explicit strategies, and curricular material involved in teaching English Learners with disabilities in inclusive classrooms.
Credit/No Credit

EDSP 293. Strategies for Inclusive Classrooms: Education Specialist. 3 Units
Prerequisite(s): Admission into a teacher preparation program.
Term Typically Offered: Fall, Spring

This course provides multiple subject and special education candidates with dispositions, knowledge, and skills needed to serve students with disabilities in general education classrooms. Strategies specific to students in their least restrictive environment will be covered emphasizing Universal Design for Learning, Multi-Tiered Systems of Support, social-emotional learning, co-teaching, differentiated instruction, roles and responsibilities of special/general education teachers, peer mediated learning strategies, modifications of standards and learning outcomes for students with disabilities, and assistive technology (low and high tech adaptations).
Cross listed: EDSS 282/EDSP 293/EDMS 213

EDSP 297. Current Issues in Special Education. 3 Units
Prerequisite(s): Passing WPG exam
Term Typically Offered: Fall, Spring

Examines current issues in special education through review of selected journal articles, presentations by guest lecturers and class discussion. Students will be required to write a series of brief position papers in professional style on selected topics.

EDSP 298. Master's Seminar in Special Education. 3 Units
Prerequisite(s): EDSP 297
Corequisite(s): EDSP 297
Term Typically Offered: Fall, Spring

Students choosing Program A for the M.A. in Education, Special Education option must register for the seminar during their final semester of study, prior to attempting the written comprehensive examination. In the seminar, students will study problems and issues associated with specialty areas as well as with the field of special education as a whole.

EDSP 299. Special Problems: Special Education. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects for Special Education credential candidates at graduate/credential level especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and the Department Chair.
Note: This course may be repeated for up to 9 units of credit.

Credit/No Credit

EDSP 413. Field Experience I: Moderate/Severe Disabilities. 3 Units
Prerequisite(s): EDSP 235 or advisor approval
Term Typically Offered: Fall, Spring

Students will spend two days per week in a school where students with moderate/severe disabilities are included in general education classes and other school activities. They will be assigned both a general and special education cooperating teacher. These teachers will work with the University supervisor to make sure that the student is able to complete the assignments and required competencies. The University supervisor will observe and evaluate the practicum student at least four times during the semester. An evaluation will be completed at the end of the semester.
Credit/No Credit

EDSP 414. Field Experience II: Moderate/Severe. 3 Units
Prerequisite(s): EDSP 413 or equivalent
Term Typically Offered: Fall, Spring

The second phase of supervised field experience for specialist candidates in the Level I moderate/severe program or ASDAA program. Candidates spend 160-hours in a school setting with students who have moderate/severe disabilities. They will work directly with a qualified cooperating teacher and a University supervisor throughout a semester to complete assignments and required competencies. Assignment evaluation will be based on written and observational criteria. An evaluation will be completed at the midterm and at the end of the semester.
Credit/No Credit

EDSP 415. Student Teaching: Moderate/Severe. 5 Units
Prerequisite(s): EDSP 414
Corequisite(s): EDSP 236
Term Typically Offered: Fall, Spring

The culminating phase of field experience for specialist candidates in the Level I moderate/severe credential program. Candidates will spend 320-hours in a public school setting with students who have moderate/severe disabilities. They will work directly with a qualified mentor/cooperating teacher and a University supervisor throughout a semester to complete assignments and required competencies. Assignment evaluation will be based on written and observational criteria. An evaluation will be completed at the midterm and at the end of the semester.
Credit/No Credit

EDSP 420A. Multiple Subject Field Experience. 6 Units
Term Typically Offered: Fall, Spring

Initial Multiple Subject credential field experience, with integrated methods coursework, is a M-Th, half-day fieldwork requirement. Effective Instruction and classroom management are the focus of the Initial Multiple Subject field experience. Candidates complete field experience in public school classrooms concurrently with integrated coursework. Field experiences focus primarily on observing model lessons and activities and on collaborative planning, implementing and assessing instruction for small groups of students.
Note: This is a full semester field experience in general ed. classrooms.

Credit/No Credit

EDSP 420B. Multiple Subject Student Teaching. 8 Units
Term Typically Offered: Fall, Spring

Final semester of a Multiple Subject credential student teaching with integrated methods coursework requires M-Th, full-day participation of the student. Emphasis on classroom teaching and further experience with community services. Candidates must meet the criteria for student teaching to be accepted to this course.
Credit/No Credit

EDSP 421. Intern Teaching: Moderate/Severe Disabilities. 5 Units
Prerequisite(s): EDSP 414 and instructor approval
Corequisite(s): EDSP 236
Term Typically Offered: Fall, Spring

Intern teaching full day, M-F, for the semester in a host LEA/District providing services for students receiving moderate/severe special education services. Interns must meet CTC-mandated criteria and district must have an active Memorandum of Understanding with the university. Intern serves as a teacher of record and is employed by the district. Is supported by a university supervisor and an on-site mentor to make progress towards the program competencies and standards. An evaluation will be completed at the midpoint and end of the semester.
Credit/No Credit

EDSP 471. Mild/Moderate: Field Experience. 6 Units
Term Typically Offered: Fall, Spring

Phase I Field Experience (EDSP471) - The first phase of fieldwork typically occurs in the second semester (M-Th, 15 weeks, a half day) in the credential program. This semester is designed for candidates who are prepared, educationally and emotionally, for a rigorous schedule of classes and student teaching in coming semesters.
Credit/No Credit

EDSP 472. Mild/Moderate: Student Teaching. 8 Units
Prerequisite(s): EDSP 471 or equivalent.
Term Typically Offered: Fall, Spring

Student teaching full day, M-Th, for the semester in a cooperating LEA District providing services for students receiving mild/moderate special education. Cooperating teachers work with the University supervisor to support the candidate in completing the required assignments and competencies. An evaluation will be completed at the mid point and end of the semester. Variable units depending on instructor recommendation and individualized student and program considerations.
Note: Signature of credential candidates' special education advisor is required on application for student teaching

Credit/No Credit

EDSP 473. Mild/Moderate: Intern Teaching. 8 Units
Prerequisite(s): All criteria related to recommendation for the intern credential and instructor approval.
Corequisite(s): EDSP 233
Term Typically Offered: Fall, Spring

A credit/no credit directed internship in a district, county office of education or program serving students with mild/moderate disabilities. Candidates must meet the criteria for an internship to be accepted to this course. A University supervisor will support the candidate in completing all required competencies. An evaluation will be completed at mid point and end of the semester.
Note: Signatures of credential candidates' special education advisor, faculty, chair are required on application.

Credit/No Credit

EDSP 474. Directed Field Experience in ESCE: Infants & Toddlers. 6 Units
Prerequisite(s): Admission to the MA in Teaching with Early Childhood Special Education Teaching Credential.
Corequisite(s): EDSP 211
Term Typically Offered: Fall, Spring, Summer

Working closely with an assigned field mentor and university supervisor, candidates complete 180 hours of directed field experience in a cooperating school district, county office of education or appropriate privately operated program providing early intervention services for infants and toddlers with disabilities and their families. Candidates must secure faculty approval by prior application for directed field experience.
Credit/No Credit

EDSP 475. Directed Field Experience in ECSE: Preschool. 6 Units
Prerequisite(s): Admission to the MA in Teaching with Education Specialist Early Childhood Special Education Teaching Credential program.
Corequisite(s): EDSP 234
Term Typically Offered: Fall, Spring

Working closely with an assigned field mentor and university supervisor, candidates complete 180 hours experience in a cooperating school district or county office of education program providing special educational services for preschoolers and their families. Candidates must secure faculty approval by prior application for directed field experience and may choose to take EDSP 477 (Internship in ECSE: Preschoolers) as a course equivalent.
Credit/No Credit

EDSP 476. Internship in ECSE: Infants & Toddlers. 10 Units
Prerequisite(s): Admission to the MA in Teaching with Education Specialist Early Childhood Special Education Teaching Credential program and Education Specialist Intern application process.
Term Typically Offered: Fall, Spring, Summer

Internship in a cooperating District or County Office of Education providing special educational services for infants and toddlers and their families. Candidates must meet the criteria for an internship in order to register. Students may enroll in EDSP 474, Directed Field Experience in ECSE I: Infants & Toddlers, as an alternative to EDSP 476. Ten units, approximately 320 field hours, are required to meet competencies. May be repeated for credit.
Credit/No Credit

EDSP 477. Internship in ECSE: Preschool. 10 Units
Prerequisite(s): Admission to the MA Teaching Education Specialist Early Childhood Special Education Teaching Credential program
Term Typically Offered: Fall, Spring

Internship in a cooperating District or County Office of Education providing special educational services for preschoolers and their families. Candidates must meet the criteria for an internship in order to register. Students may enroll in EDSP 475, Directed Field Experience in ECSE II: Preschool, as an alternative to EDSP 477. Ten units, approximately 320 field hours, are required to meet competencies.
Credit/No Credit

EDSP 478. Field Experience I: Early Childhood Special Education. 3 Units
Prerequisite(s): Admission to the MA in Teaching with Education Specialist Early Childhood Special Education Teaching Credential program.
Corequisite(s): EDSP 209, EDSP 216, EDSP 217, or approval of ECSE program advisor.
Term Typically Offered: Fall, Spring

Students will spend two days per week with an agency, community-based program, or school where families with infants and toddlers with disabilities or preschoolers with disabilities are being served. They will be assigned a cooperating education specialist who they will work with to make sure the student is able to complete the assignments. Students will engage in the site through observing best practices and participating in activities with children and families as directed.
Credit/No Credit

EDSP 479. Field Experience II: Early Childhood Special Education. 3 Units
Corequisite(s): EDSP 210, EDSP 212, and EDSP 293 or approval of ECSE program coordinator
Term Typically Offered: Fall, Spring

The second phase of field-based experience for ECSE candidates is a supervised practicum. Candidates will spend a minimum of two days per week with a community-based program or school where preschoolers with disabilities are being served. They will be assigned a cooperating education specialist and University supervisor who they will work with to complete assignments. An evaluation of program competencies will be completed at the end of the semester. Perquisite: Admission to MA in Teaching with Education Specialist Early Childhood Special Education Teaching Credential program
Credit/No Credit

EDSP 500. Master of Arts Thesis: Special Education. 3 Units
Prerequisite(s): Approval of Culminating Experience Proposal or instructor permission
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree.

EDSP 501. Master of Arts Project: Special Education. 3 Units
Prerequisite(s): Approval of Culminating Experience Proposal or instructor permission
Term Typically Offered: Fall, Spring

Completion of a project that integrates research with development of a product related to instruction of persons with disabilities.

EDSS 241. Action Research in Multicultural Settings. 5 Units
Prerequisite(s): Admission to the Master of Arts in Teaching with Multiple/Single Subject Teaching Credential program; Completion of EDMS 434B or EDMS 474B.
Term Typically Offered: Summer only

This course focuses on an introduction to Action Research in multicultural educational settings. It includes an overview of various research paradigms, with emphasis on Action Research and Teacher Action Research. Additional topics covered in this course include: critical pedagogy, forms of multicultural education, and issues related to educational equity and providing access of opportunity to students from underserved populations.
Cross listed: EDMS 241

EDSS 242. Critical Perspectives in Classroom Inquiry. 3 Units
Prerequisite(s): EDMS 241 or EDSS 241
Term Typically Offered: Fall only

This course is part of the Master of Arts in Teaching with Single Subject Teaching Credential Program and builds on the knowledge that students gain in EDMS/EDSS 241. During this course students will complete a literature review of research related to their critical inquiry question. Students will additionally explore the historical and current trends in critical classroom inquiry and consider the implications for schools in diverse settings. Further course activities include developing a Classroom Inquiry Project and submitting the IRB.
Cross listed: EDMS 242

EDSS 243. Data Collection for Action Research in Multicultural Settings. 3 Units
Prerequisite(s): EDMS 241 or EDSS 241.
Term Typically Offered: Fall only

This course builds students understanding of appropriate types and uses of data in Action Research in multicultural education settings. During this course students will be presented with the sociopolitical contexts for data collection and its subsequent use in educational policy. Students will apply theoretical knowledge by practicing to collect and initially interpreting multiple types of data. These experiences will lay the groundwork for students development and implementation of the data collection plan for their own Classroom Inquiry Projects.
Cross listed: EDMS 243.

EDSS 244. Sociocultural & Sociopolitical Contexts of Data Analysis. 3 Units
Prerequisite(s): EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243
Term Typically Offered: Spring only

This course builds students understanding of appropriate methods of data analysis in Teacher Action Research in multicultural education settings. Students will learn how data analysis has been used to interpret research in diverse school settings. Students will apply theoretical knowledge by analyzing multiple types of data sets form both qualitative and quantitative sources. These experiences will lay the groundwork for students implementation of analysis of their own data for their Action Research inquiry projects.
Cross listed: EDMS 244

EDSS 264A. Theoretical Foundations of Teaching in a Multicultural Democratic Society. 3 Units
Prerequisite(s): Admission to the Single Subject Credential program or MA in Teaching with Single Subject Teaching Credential Program.
Term Typically Offered: Fall, Spring

An introduction to critical analysis of the purpose and process of public schooling. Examination of the sociopolitical contexts of public schools and society; educational theories, philosophies, notions of culture, community and educational practice. Engagement with sociocultural, historical and philosophical foundations of education, learning theories, theories of adolescent cognitive and social development. Modalities include lecture and discussions.

EDSS 264E. Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop-Linked Learning. 3 Units
Prerequisite(s): Admission to the Single Subject Credential program or MA in Teaching with Single Subject Teaching Credential program.
Term Typically Offered: Fall, Spring

Candidates explore sociocultural, historical and philosophical foundations of education with focus on context of Linked Learning and critical examination of traditional tracking and vocational education. Students will evaluate the extent to which programs aimed at Career Pathways and College Readiness depart from or replicate previous patterns and analyze historical/economic drivers that shape schooling. Initial application of strategies and approaches associated with Linked Learning theories, theories of adolescent cognitive and social development. Integration of Discussions, simulation, activities.

EDSS 265C. Advanced Fundamentals of Teaching, Lecture. 1 Unit
Prerequisite(s): EDSS 365A and EDSS 365B
Corequisite(s): EDSS 265D
Term Typically Offered: Fall, Spring

Extends learning in EDSS 365A or EDSS 365B with deeper examination of the relationship between elements of teaching and instructional organization needed to effectively teach in culturally and linguistically diverse and inclusive secondary classrooms through the use of backward design, Universal Design for Learning, differentiated instruction and assessment. The focus will be grounded in a Social Justice/Multicultural paradigm. Emphasis will include students' development as teacher through exploration of curriculum development frameworks, long-and short-term planning approaches, specific theories for instructional practice.

EDSS 265D. Advanced Fundamentals of Teaching, Workshop. 1 Unit
Prerequisite(s): EDSS 365A and EDSS 365B
Corequisite(s): EDSS 265C
Term Typically Offered: Fall, Spring

Extends learning in EDSS 365A, B and EDSS 265C by deepening knowledge about the relationship between elements of teaching and instructional organization. Focus on effective teaching for culturally and linguistically diverse and inclusive secondary classrooms through the use of backward design, Universal Design for Learning, differentiated instruction and assessment. Instructional framework will be grounded in a Social Justice/Multicultural paradigm. Emphasis will include students' development as a teacher including application of curriculum development theories, long-and short-term planning frameworks and specific theories.

EDSS 265F. Advanced Fundamentals of Teaching, Workshop - Linked Learning. 1 Unit
Prerequisite(s): EDSS 365A and EDSS 365E
Corequisite(s): EDSS 265C
Term Typically Offered: Fall, Spring

The second course in a two-course series. Deepens candidates' ability to apply frameworks for effective teaching of culturally and linguistically diverse students (e.g., inclusion strategies, backwards design, Universal Design for Learning, differentiated instruction and assessment). Continued emphasis on a Social Justice/Multicultural Education paradigm, and focus on candidates' development as a teacher. Application of Linked Learning curriculum development, long- and short-term planning frameworks, and specific theories for instructional practice and assessment. Discussion, small group work, simulations.

EDSS 266B. Single Subject Seminar, B. 2 Units
Prerequisite(s): EDSS 366A
Corequisite(s): EDSS 474b or EDSS 417A/EDSS 471B
Term Typically Offered: Fall, Spring

Second part of a two-part sequence that provides opportunities for student teachers to discuss, analyze, reflect upon data gathered from field placements and to support completion of TPA teaching event. Attention given to policies, school law, resources, strategies, routines and activities that contribute to productive environments in school and classrooms as locations for student engagement and learning. Special emphasis will be on English Language Development and students with special needs. Course assignments and activities are integrated with other core courses.
Credit/No Credit

EDSS 266D. Single Subject Seminar, D. 2 Units
Prerequisite(s): EDSS 366C
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second of two-course series. Provide structured opportunities for candidates to discuss, analyze, reflect upon data gathered from field; support completion of TPA. Further study of policies, school law, resources, strategies, routines, and activities needed for productive environments in classrooms as locations for student engagement/learning. Special emphasis on English Language Development, students with special needs, and specific management/implementation of Linked Learning activities (e.g. multidisciplinary integrated units of study). Course assignments/activities integrated with other core courses.
Credit/No Credit

EDSS 279A. Method and Materials for Teaching Secondary English Learners, A. 1.5 Units
Prerequisite(s): EDUC 170; Admission to the Single Subject Credential program
Term Typically Offered: Fall, Spring

This course is the first of a two-course series. Introduces candidates to a repertoire of theory-based methods needed to facilitate and measure their own students' growth in English language development (ELD) as well as create learning environments which promote content area learning through the use of Specially Designed Academic Instruction in English (SDAIE). Candidates acquire knowledge and skills in methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 279B. Methods and Materials for Teaching Secondary English Learners, B. 1.5 Units
Prerequisite(s): EDSS 279A
Term Typically Offered: Fall, Spring

Second course in a two-course series. Candidates expand their repertoire of theory-based methods to facilitate and measure their own students' growth in English language development (ELD} as well as create learning environments which promote content area learning through the use of Specially Designed Academic Instruction in English (SDAIE). Candidates deepen knowledge and skills related to methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 279C. Method and Materials for Teaching Secondary English Learners, C. 1.5 Units
Prerequisite(s): EDUC 170; Admission to the Single Subject Credential Program.
The first of two-course series. Introduces candidates to theory-based methods to facilitate/measure their own students' growth in English language development and create learning environments which promote content area learning through Specially Designed Academic Instruction in English (SDAIE). Specific instruction given to develop skills in Linked Learning settings and learning activities therein. Candidates acquire knowledge/skills in methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 279D. Method and Materials for Teaching Secondary English Learners, D. 1.5 Units
Prerequisite(s): EDSS 279C
Second in two-course series. Candidates expand repertoire of theory-based methods to facilitate/measure students' growth in English language development and create learning environments which promote content area learning through Specially Designed Academic Instruction in English (SDAIE). Specific instruction given to develop skills in Linked Learning settings and learning activities therein. Candidates deepen knowledge and skills related to methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 282. Strategies for Inclusive Classrooms: Single Subject. 3 Units
Prerequisite(s): Admission into a teacher preparation program or an MA in Teaching with Multiple/Single Subject Teaching Credential program.
Term Typically Offered: Fall, Spring

This course provides single subject and special education candidates with dispositions, knowledge, and skills needed to serve students with disabilities in general education classrooms. Strategies specific to students in their least restrictive environment will be covered emphasizing Universal Design for Learning, Multi-Tiered Systems of Support, social-emotional learning, co-teaching, differentiated instruction, roles and responsibilities of special/general education teachers, peer mediated learning strategies, modifications of standards and learning outcomes for students with disabilities, and assistive technology (low and high tech adaptations).
Cross listed: EDSP 293

EDSS 299. Special Problems: Single Subject. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects for Single Subject credential candidates at graduate/credential level especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and the Department Chair.
Note: This course may be repeated for up to 9 units of credit.

Credit/No Credit

EDSS 300. Teaching Performance Assessment-Single Subjects. 1 Unit
Corequisite(s): EDTE 470B or EDSS 474B or EDTE 471A
Term Typically Offered: Fall, Spring

Candidates in the Teacher Preparation Program must complete the Teaching Event for the Performance Assessment for California Teachers. The Teaching Event requires candidates to plan and teach an instructional sequence in their student teaching placement. They must also assess student learning during this lesson sequence and submit a videotape with material recorded during the lesson sequence. The Teaching Event is a summative assessment and one of several requirements that must be completed in order to receive a recommendation for a teaching credential.
Note: Corequisite can be waived if candidate is retaking EDSS 300

Credit/No Credit

EDSS 364B. Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop. 1.5 Units
Prerequisite(s): Admission to the Single Subject Credential program
Corequisite(s): EDSS 364A
Term Typically Offered: Fall, Spring

An introduction to critical analysis of the purpose and process of public schooling. Examination of the sociopolitical contexts of public schools and society; educational theories, philosophies, notions of culture, community and educational practice. Exploration of sociocultural, historical and philosophical foundations of education. Initial application of strategies and approaches associated with learning theories, theories of adolescent cognitive and social development. Modalities include discussion, simulation and activities.

EDSS 364C. Advanced Theoretical Foundations of Teaching in a Multicultural Democratic Society, Lecture. 1 Unit
Prerequisite(s): Admission into the Single Subject Credential Program; EDSS 264A.
Corequisite(s): EDSS 364D
Term Typically Offered: Fall, Spring

Further study of the purposes and processes of public schooling. Candidates develop a philosophy of education for teaching in a multicultural, multilingual, and democratic society through self-examination of dispositions related to gender, sexuality, race, social class, language, religion/spirituality and ability. Modalities include lecture and discussions.

EDSS 364D. Advanced Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop. 1 Unit
Prerequisite(s): Admission into the Single Subject Credential Program; EDSS 264A
Corequisite(s): EDSS 364C
Term Typically Offered: Fall, Spring

Further study of the purposes and processes of public schooling. Candidates develop a philosophy of education for teaching in a multicultural, multilingual, and democratic society through self-examination of dispositions related to gender, sexuality, race, social class, language, religion/spirituality and ability. Modalities include discussions, small group tasks, group projects and simulations.

EDSS 364F. Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop-Linked Learning. 1 Unit
Prerequisite(s): EDSS 264A
Corequisite(s): EDSS 364C
Term Typically Offered: Fall, Spring

Further study of purposes and processes of public schooling with a special focus on educational theory and practice in Linked Learning contexts. Candidates develop a philosophy of education for teaching in a multicultural, multilingual, and democratic society through self-examination of dispositions related to gender, sexuality, race, social class, language, religion/spirituality and ability. Modalities include discussions, small group tasks, group projects, simulations.

EDSS 365A. Fundamentals of Teaching, Lecture. 1.5 Units
Prerequisite(s): Admisson into Single Subject Teacher Preparation Program
Corequisite(s): EDSS 365B
Term Typically Offered: Fall, Spring

This course introduces the relationship between elements of teaching and instructional organization to effectively teach in culturally and linguistically diverse and inclusive secondary classrooms through the use of backwards design, Universal Design for Learning, and differentiated instruction. The focus will be grounded in a Social Justice/Multicultural paradigm. Emphasis will include students' development as a teacher, curriculum development, long and short-term planning, and specific theories for instructional practice. Lecture and Discussion.

EDSS 365B. Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop. 1.5 Units
Prerequisite(s): Admission into Single Subject Teacher Preparation Program
Corequisite(s): EDSS 365A
Term Typically Offered: Fall, Spring

This course introduces the relationship between elements of teaching and instructional organization to effectively teach in culturally and linguistically diverse and inclusive secondary classrooms through the use of backwards design, Universal Design for Learning, and differentiated instruction. The focus will be grounded in a Social Justice/Multicultural paradigm. Emphasis will be on application of theories and frameworks learned in EDSS 365A, with a focus on students' development as a teacher, curriculum development, long and short-term planning, and assessing student learning. Discussion, small group work and simulations.

EDSS 365E. Fundamentals of Teaching, Workshop - Linked Learning. 1.5 Units
Prerequisite(s): Admission to the Single Subject Teacher Preparation program
Corequisite(s): EDTE 365A
This is the first course in a two course series; practice using instructional planning frameworks (e.g., backwards design, Universal Design for Learning, and differentiated instruction) and a Social Justice/ Multicultural Education paradigm to design learning segments for culturally and linguistically diverse students. Emphasis on application of theories and frameworks learned in EDTE 365A, with a focus on Linked Learning curriculum development and integration, long- and short-term planning, and assessing student learning. Discussion, small group work, simulations.

EDSS 366A. Single Subject Seminar, A. 3 Units
Prerequisite(s): Acceptance into Single Subject Teacher Credential program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

First part of a 2-course sequence that provides structured opportunities for student teachers to discuss, analyze, and reflect upon data gathered from their field placements. Attention given to policies, school law, resources, strategies, routines, and activities that contribute to the productive management of the school and classroom as locations for student engagement and learning. Special emphasis will be on English Language Development and students with special needs. Course assignments and activities are integrated with other core courses. Credit/No Credit

EDSS 366C. Single Subject Seminar, C. 3 Units
Prerequisite(s): Admission to the Single Subject Credential program
Corequisite(s): EDSS 474A
First of two-course sequence. Provides structured opportunities for candidates to discuss, analyze, and reflect upon data gathered from field. Attention given to policies, school law, resources, strategies, routines, and activities that contribute to productive management of school and classroom as locations for student engagement/learning. Special emphasis on English Language Development, students with special needs, and specific management and implementation of Linked Learning activities (e.g. multidisciplinary integrated units of study). Course assignments/activities integrated with other core courses. Credit/No Credit

EDSS 368. Inclusive Education in Secondary Schools. 1 Unit
Prerequisite(s): Admission to the Single Subject Credential Program
Term Typically Offered: Fall, Spring

Candidates learn historical, theoretical, and practical information related to key issues facing secondary public schooling currently, including how to educate learners with special needs, differentiate instruction in the content areas, develop assessments that fairly and accurately measure student learning, and use universal design to structure classroom and school practices, processes and policies to maximize access to core content for all students, regardless of language or ability. Lecture and discussion.

EDSS 373A. Educational Technology Lab I. 1 Unit
Prerequisite(s): Admission to the Single Subject Credential Program.
Term Typically Offered: Fall, Spring

Educational technology lab course will prepare the candidates use technology for three areas: coursework in the teaching credential program, enhancing teaching and learning and eportfolio development. The candidates are introduced to an array of digital technologies for teaching relevant for K-12 student learning. The candidates are also prepared to use technology in the Teaching Credential Program and for the development of an electronic portfolio.
Credit/No Credit

EDSS 373B. Educational Technology Lab II. 1 Unit
Prerequisite(s): EDSS 373A
Term Typically Offered: Fall only

This course will offer support and instructions of facilitating and improving learning of a diverse student population by creating, using, and managing appropriate technological processes and resources. The candidates will learn applying and developing knowledge of technology in K-12 teaching and student learning. The candidates are prepared to use technology in the Teaching Credential Program and for the development of an electronic portfolio.
Credit/No Credit

EDSS 373C. Educational Technology Lab - Linked Learning. 1 Unit
Prerequisite(s): Admission to the Single Subject Credential program
This course encompasses the knowledge, skills and dispositions needed to understand, describe and develop 'technological, pedagogical content knowledge' for effective pedagogical practice in a technology enhanced learning environment. Instruction occurs through labs, online resource center and individualized support. Candidates develop a range of technology skills and knowledge needed for effective instruction in the Linked Learning classroom and provides technology resources associated with project-based learning and integrated curricular units.
Credit/No Credit

EDSS 383A. Methods in English Education, A. 1.5 Units
Prerequisite(s): Admission to the teacher preparation program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

A critical course for English teaching preparation, educational experiences will promote understandings, attitudes and competencies necessary for effective instruction in English Language Arts and literacy in grades 7-12. Candidates acquire skills related to literacy assessment, text selection, and lesson/unit planning designed to meet the needs of all learners, including mainstream populations, English learners and students with special needs. Students are provided with opportunities to acquire skills, knowledge, practice, and experience planning for and teaching secondary English language arts and literacy. Lecture and discussion.

EDSS 383B. Methods in English Education, B. 1.5 Units
Prerequisite(s): EDSS 383A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

A critical course for English teaching preparation, educational experiences will promote understandings, attitudes and competencies necessary for effective instruction in English Language Arts and literacy in grades 7-12. Candidates acquire skills related to literacy assessment, text selection, and lesson/unit planning designed to meet the needs of all learners, including mainstream populations, English learners and students with special needs. Students are provided with opportunities to acquire skills, knowledge, practice, and experience planning for and teaching secondary English language arts and literacy. Lecture and discussion.
Note: This course is the second in a two course series

EDSS 384A. Instruction and Assessment of Academic Literacy, A. 1.5 Units
Prerequisite(s): Admission to the Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

Introduction to foundational understandings, attitudes and competencies necessary for effective instruction of academic language and literacy in 7-12 content area classrooms. Candidates acquire skills related to literacy assessment, text selection, and lesson planning designed to meet the needs of all learners, including mainstream population, English learners and students with special needs. Candidates develop an awareness of what constitutes effective content literacy instruction and a beginning repertoire of strategies to help students meet the demands of content reading, writing and discussion. Lecture and discussion.

EDSS 384B. Instruction and Assessment of Academic Literacy, B. 1.5 Units
Prerequisite(s): EDSS 384A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second course in a two course series on understanding effective instruction of academic language and literacy in 7-12 content area classrooms. Candidates hone skills in literacy assessment, text selection, and lesson planning to meet the needs of all learners, including mainstream populations, English learners and students with special needs. Application of content literacy instruction (pre, during and post reading and writing strategies). Enhanced knowledge of strategies to support students' attainment of the demands of content reading, writing and discussion. Lecture, discussion.

EDSS 385A. Methods in World Language Education, A. 1.5 Units
Prerequisite(s): Admission into the Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

This course is designed for candidates who are preparing to teach world languages in secondary school settings in California public schools. Candidates will learn about current theoretical bases for second-language acquisition and how such theories inform classrooms practice. Candidates have introductory opportunities to practice principles of learning from which teachers can draw as they make decisions about instruction. Lecture, discussion and simulation.
Cross Listed: WLL 385A; only one may be counted for credit.

EDSS 385B. Methods in World Language Education, B. 1.5 Units
Prerequisite(s): EDSS 385A or WLL 385A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

This course continues learning initiated in EDSS 385A and is designed for candidates who are preparing to teach world languages in secondary school settings in California public schools. Candidates will learn additional methodologies for planning and delivering instruction in world languages. Candidates will practice instructional strategies and will design lessons. Candidates will implement assessments that capture student learning of key world language outcomes, including oral language and written language development and reading fluency. Strategies for teaching cultural appreciation are also embedded. Lecture, discussion and simulation.
Cross Listed: WLL 385B; only one may be counted for credit.

EDSS 386A. Methods in Mathematics Education, A. 1.5 Units
Prerequisite(s): Admission to Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

First part of a two-course sequence that provides instruction to organize instructional materials, techniques of presentation and methods of evaluation for secondary school mathematics. Articulated with student teaching and should be taken the same semester. Activities include discussions, presentations and demonstrations.

EDSS 386B. Methods in Mathematics Education, B. 1.5 Units
Prerequisite(s): EDSS 386A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second part of a two-course sequence that provides continuation of organization of instructional materials, techniques of presentation and methods of evaluation for secondary school mathematics. Articulated with student teaching and should be taken the same semester.

EDSS 387A. Methods in History/Social Science Education, A. 1.5 Units
Prerequisite(s): Admission into the Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

First of a two-part field and lecture-based course which will prepare candidates to teach history-social science content and analysis skills to secondary students, particularly those who are culturally and linguistically diverse, have special needs, or are English learners. Focus on identifying and evaluating curricular resources and instructional strategies that emphasize the active use of critical thinking skills and the development of civic values for informed participation in a democratic society.

EDSS 387B. Methods in History/Social Science Education, B. 1.5 Units
Prerequisite(s): EDSS 387A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second of a two-part field and lecture-based course which will prepare candidates to teach history-social science content and analysis skills to secondary students, particularly those who are culturally and linguistically diverse, have special needs, or are English learners. Focus on implementing curriculum and instructional strategies and assessing student mastery of grade-level content and skills that are central to history-social science disciplines.

EDSS 388A. Methods in Science Education, A. 1.5 Units
Prerequisite(s): Admission to Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

First part of a two-course sequence that provides introduction to organization of instructional materials, techniques of presentation, and methods of evaluation for secondary school science. Articulated with student teaching and should be taken the same semester. Activities include discussion, presentations and demonstrations.

EDSS 388B. Methods in Science Education, B. 1.5 Units
Prerequisite(s): EDSS 388A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second part of a two-course sequence that provides introduction to organization of instructional materials, techniques of presentation, and methods of evaluation for secondary school science. Articulated with student teaching and should be taken the same semester. Activities include discussion, presentations and demonstrations.

EDSS 401. Observation and Participation in Secondary Classrooms. 2 Units
Prerequisite(s): Admission to Teacher Preparation Program
Teacher candidates will observe and participate as teaching assistants in public school secondary classrooms.
Credit/No Credit

EDSS 440. Work-Based Learning Field Experience. 2 Units
Prerequisite(s): Admission to the Single Subject Credential program
This fieldwork course focuses on the work-based learning core component of Linked Learning/Career Pathways. After an orientation to work-based learning, its function in Linked Learning/Career pathways, and how it can be integrated into core curriculum, candidates will experience a non-paid, one-week internship at a worksite associated with one of the 15 major CA industries. Candidates develop work-based knowledge and experiences to be applied when they create a subject-specific curricular unit incorporating their work-based learning. Fieldwork, discussion.

EDSS 470A. Field Experience: Secondary. 6 Units
Prerequisite(s): Acceptance into the Sacramento State Single Subject Teaching Credential Program.
Term Typically Offered: Fall, Spring

Provides candidates with field experiences of increasing complexity and responsibility as they engage in cycles of teaching. Public school assignment in a secondary school serving culturally and linguistically diverse community for one university semester with three periods of responsibility: English learner class, single subject content class, and an observation/consultation period. Observations and supervised teaching experiences will be systematic and structured.
Credit/No Credit

EDSS 470B. Student Teaching: Secondary. 12 Units
Term Typically Offered: Fall, Spring

Provides candidates with field experiences of increasing complexity and responsibility as they engage in cycles of teaching. Experiences will be systematic and structured. Student teachers will be placed for the public school's semester at a school serving linguistically and culturally diverse students. Candidates become more independent with primary responsibility for cycle of teaching with equivalent of three periods supervised teaching and one consultation period.
Credit/No Credit

EDSS 471A. Elementary Physical Education Student Teaching. 5 Units
Prerequisite(s): Acceptance into the Sacramento State Single Subject Teaching Credential Program.
Term Typically Offered: Fall, Spring

The elementary physical education teacher will be placed in a setting where he/she is able to plan, implement, promote and assess a developmentally appropriate physical education program that meets the diverse needs, interests and abilities of elementary school children, K-6.
Credit/No Credit

EDSS 471B. Secondary Physical Education Student Teaching. 4 Units
Prerequisite(s): The successful completion of EDTE 471A.
Term Typically Offered: Fall, Spring

The secondary physical education student teacher will be placed in a setting where he/she is able to plan, implement, promote and assess a developmentally appropriate physical education program that meets the diverse needs, interests and abilities of secondary school children, 6-12.
Credit/No Credit

EDSS 474A. Field Experiences in Secondary Schools. 6 Units
Prerequisite(s): Admission into the Single Subject Teaching Credential Program
Term Typically Offered: Fall, Spring

Provides candidates with field experiences of increasing complexity and responsibility as they engage in cycles of teaching. Public school assignment in a secondary school serving culturally and linguistically diverse community for one university semester with three periods of responsibility: English learner class, single subject content class and an observation/consultation period. Observations and supervised teaching experiences will be systematic and structured.
Credit/No Credit

EDSS 474B. Student Teaching in Secondary Schools. 8 Units
Prerequisite(s): EDSS 474A; all subject matter competence and basic skills requirements met, per CTC program standards
Term Typically Offered: Fall, Spring

Candidates engage in student teaching, taking on tasks of increasing complexity and responsibility as they perform cycles of teaching. Student teaching will be systematic and structured. Student teachers will be placed for the public school's semester at a school serving linguistically and culturally diverse students. Candidates become more independent with primary responsibility for cycle of teaching with equivalent of three periods supervised teaching and one consultation period.
Credit/No Credit

EDSS 500. Classroom Inquiry Project: Culminating Experience. 3 Units
Prerequisite(s): EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243.
Term Typically Offered: Spring only

Course establishes that master candidates have acquired the essential knowledge and skills covered in each of the courses leading to the Master of Arts in Teaching with Single Subject Teaching Credential. Proficiency is demonstrated through a comprehensive examination of essential content of each course in the master's degree program. Candidates will produce a written portfolio, accompanying executive summary, and oral presentation of the body of work completed during the Master of Arts in Teaching with Single Subject Teaching Credential program.
Cross listed: EDMS 500.

Credit/No Credit

Education Specialist Credential Program: Mild/Moderate

Total units required for Credential: 39-47

Program Description

The Education Specialist Instruction Credential authorizes the holder to provide instruction and special education support as well as conduct Educational Assessments related to student's access to the academic core curriculum. Support services can be provided according to the credential holder's area of specialization in the following settings:

- Resource rooms or services
- Special education settings
- General education settings
- Special schools
- Home/hospital settings
- State hospitals
- Development centers
- Correctional facilities
- Non-public, non-sectarian schools and agencies
- Alternative and non-traditional instructional
- Public school settings other than classroom

Programs offered lead to Certificates of Eligibility and/or the Preliminary Credential in three specialties:

- **Education Specialist:** Teaching Credential Program: Early Childhood Special Education
- **Education Specialist:** Mild/Moderate Disabilities Specialist (M/M) and
- **Education Specialist:** Moderate/Severe Disabilities Specialist (M/S).

All above specialties comply with regulations and standards as issued by SB2042 and AB1059 (English Language Authorization).

University- and California Commission on Teacher Credentialing- (CTC) approved program options also allow candidates to pursue the M/M or M/S specialty concurrently with the Multiple Subject Credential. Another approved program allows candidates to add an ECSE Certificate to existing Clear M/M, M/S or other California Special Education Specialist credentials. For additional information regarding the ECSE Certificate, please contact the ECSE Coordinator (current the program is on hiatus) or Teaching Credentials Office.

All credential programs undergo continual review and change; current requirements are available on the Teaching Credentials website (http://www.csus.edu/coe/academics/credentials/). All candidates are required to seek advisement regarding credential coursework and must complete a program advisement plan prior to the start of the program. Candidates must take prerequisites prior to the start of the program; candidates who continue without advisement or do not complete prerequisites prior to the start of the program may be disenrolled.

Special Education Internships

All Preliminary Education Specialist programs at Sacramento State have been approved by CCTC as internship programs. In order to be eligible for an Intern Education Specialist Credential, candidates must

- have been admitted and cleared all admission requirements for the credential program;
- have received the recommendation of a faculty member;
- have received an offer of employment from an employer; and
- be pursuing an internship with a district/school that has a written internship agreement (Memorandum of Understanding) with Sacramento State.

Only candidates in their final semester of the program can be considered for internships.

Note: Candidates working under an Education Specialist Internship Credential must concurrently fulfill the requirements of the credential program and the internship appointment.

Preliminary Teaching Credentials

As new regulations become mandated by the California Commission on Teacher Credentialing (CTC) and the California Department of Education, requirements for meeting subject matter competency and/or requirements for all preliminary credential programs will be changed to comply with the new requirements. The preliminary credential program is legislated according to the SB 2042 (Preliminary) Credential requirements. For further information, please contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639.

Preliminary Teaching Credential Requirements

Completion of the Preliminary Teaching Credential requires that the candidate:

- hold a baccalaureate or higher degree in a field other than professional education from a regionally accredited college or university;
- complete an approved program of teacher preparation, including student teaching;
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the elementary school level, complete either an approved subject matter program or pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the secondary school level, complete either an approved subject matter program in one of the core academic subject areas or pass an approved subject-matter examination in a core academic subject area (CSET: California Subject Examination for Teachers);
- for a Multiple Subject credential, pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for Single Subject, complete either an approved subject matter program or pass the approved subject-matter examination (CSET) in the appropriate teaching area;
- for Single Subject, complete an approved course in the teaching of reading;
- for Multiple Subject, complete an approved course in the teaching of reading and pass the Reading Instruction Competence Assessment (RICA) exam;
- pass a college-level course or examination on the U.S. Constitution; and
- demonstrate California Basic Educational Skills (see subsection below on options available).

Teaching Credentials offers a variety of pathways for completing the Preliminary Credential programs depending on the program:

- a one-year (two-semester) program;
- a three-semester program;
- a two-year (four-semester) program – Education Specialist programs only; part-time options are available which will increase time to program completion

Field experience and student teaching are integral parts of the program leading to Preliminary Credentials. In both the Multiple Subject and Single Subject Teacher Preparation programs, candidates move through the program in cohorts. Full-time Education Specialist candidates follow a tightly-sequenced series of courses. In all teacher preparation programs, candidates complete fieldwork in public schools. All candidates will have experience working with children or youth from a broad range of cultural, ethnic, economic and special learning needs backgrounds.

Program Admission Requirements at a Glance

1. Experiences related to working with children or youth
2. References (2)
3. Essay
4. Official Transcripts from every college/university attended
5. Writing Proficiency
6. Basic Skills Competence (i.e., pass the CBEST)
7. Subject Matter Competence (i.e., pass the CSET)
8. Grade Point Average (GPA) of at least 2.67 overall or 2.75 in last 60 semester or 90 quarter units
9. Complete Credential Prerequisite Courses: EDUC 170, EDUC 100A, EDUC 100B, HLSC 136, and KINS 172 (MS only – equivalent workshop can be taken during the program)
10. Complete the Mandatory Interview

Applications Required at a Glance

- Teaching credentials Supplemental Program Application
- CSU Graduate School Application
- Certificate of Clearance Application (and fingerprint clearance through CTC)

Admission Requirements – General Information Only

Experiences Related to Working with Children or Youth (paid and/or volunteer)

A minimum of 45 hours of experience (closer to 100+ hours if you want to be competitive) with diverse populations is required to be considered for program admission. Possible field experiences can include:

classroom instructional aide, tutoring, afterschool program, Peace Corps, camp counseling, child/youth recreation programs, coaching, group-home counseling, church school teaching, etc. Your responses will be evaluated using the following criteria:

- ***Recency:*** Experience needs to be recent – at least within 1-2 years of the application period. You can list all experiences gained on the supplemental application, but regency is key.
- ***Settings:*** Majority of your experiences should be in appropriate settings/schools (**ideally public schools**) with culturally, linguistically, and socioeconomically diverse students of the age group (i.e., elementary school, high school, etc.) or population (i.e., special needs population) you plan to teach. You will list the diversity of your experiences on the supplemental application.
- ***Supervision:*** Has the verifiable experience been gained under supervision? If so, you will need to list names of your supervisors on the supplemental application.

References

Applicants submit two reference forms (included in the supplemental application). Letters of recommendation will not be accepted in lieu of reference forms. ***Only reference forms submitted in sealed envelopes will be accepted.*** It is recommended that one of the references be from a person who has observed the applicant's academic competence (current or former instructor) and the other reference from a person who has observed the applicant working with children or youth. ***NOTE*:** References from family members will not be accepted.

Essay

Discuss a critical, current issue in teaching/education and the relationship of this issue to your motivation to become a teacher in a typed, two-page, double-spaced essay. ***NOTE:*** This prompt is subject to change.

Transcripts

Applicants must provide ***official, sealed transcripts*** from every community college/college/university attended, even if only ONE class was completed. ***Sacramento State students and Sacramento State graduates are exempt, unless coursework was completed at another college after you graduated***.

Writing Proficiency

Satisfying writing proficiency is a program admission requirement. This requirement may be met in one of the following ways:

1. Pass the entire CBEST (must pass the writing portion with a minimum of 37 points); **or**
2. Pass the CSET: Writing Skills Test (*Multiple Subject applicants only*); **or**
3. Meet the graduation writing requirement (GWAR) at any CSU campus; **or**
4. Successfully complete an upper-division advanced English composition course, with a "B" grade or better.

Basic Skills Requirement (BSR)

Satisfying the basic skills requirement is a program admission requirement. Select one of the following options to meet this requirement. For detailed information visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl667.pdf).

1. Pass the California Basic Educational Skills Test (CBEST) – all sections must be taken and passed
2. Pass the CSU Early Assessment Program (EAP)English and Math sections(tests completed in high school)
3. Pass the CSU English Placement Test (EPT) and the Entry Level Math (ELM) Test (For more information, visit the Testing Center website (http://www.csus.edu/testing/))
4. Pass the CSET: Writing Skills Test (available to Multiple Subject applicants only)
5. Pass a basic skills examination from another state

Register online at the CTC Exams website (http://www.ctcexams.nesinc.com). **Take exams no later than February for FALL admission consideration.**

Subject Matter Competence (SMC)

Applicants are required to meet SMC to be considered for admission:

Special Education: Applicants holding one of the following types of credentials, may have met the subject matter competency requirement: five-year preliminary, clear, professional clear, or life credential in the following authorizations: Multiple Subject, Single Subject, Standard Elementary, Standard Secondary, General Elementary, or General Secondary. *Applicants who do not hold one of the types of credentials listed above* can meet SMC through one of the following options:

- CSET for Multiple Subjects option or
- Single Subject option (see requirements below)

Multiple Subject: All applicants must satisfy SMC by passing the California Subject Examinations for Teachers (CSET): Multiple Subjects subtests I, II, and III. ***NOTE*:** CSET passing scores on all three (3) subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration.*** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).

Single Subject: Applicants may satisfy SMC in ONE of two ways, either (1) by examination **or** (2) by completing an approved undergraduate program of subject matter coursework.

1. **Examination(s)** Take and pass the California Subject Examinations for Teachers (CSET) in your subject area. Be sure to take all required subtests in your teaching area. ***NOTE*:** CSET passing scores on all subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration.*** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).
2. **Coursework** Complete a California Commission-approved undergraduate academic subject matter preparation (SMP) program from an accredited California college/university.

SMP Coursework Options

- **The Sacramento State Subject Matter Program (SMP)** is a California approved baccalaureate program that prepares individuals for teaching. Sac State students completing a SMP must meet with an approved advisor as soon as possible in order to complete the Subject Matter Competence Verification Form. For a listing of faculty advisors visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/smp-advisor-20160926.pdf).

- **Non-Sacramento State applicants** who completed an approved SMP on a California campus other than Sacramento State must submit verification of completion of the SMP on letterhead stationery of your school, signed by the approved evaluator, instead of using the Subject Matter Competence Verification Form. Check with your College's Credentials office for the approved evaluator.

Grade Point Average (GPA) Required

In order to be considered for admission to a Teaching Credential Program, applicants must have attained a cumulative GPA of at least 2.67 in all baccalaureate and post-baccalaureate course work (if completed) **OR** a GPA of at least 2.75 in the last 60 semester or 90 quarter units attempted.

Pre-requisite Credential Courses – to be completed PRIOR to starting the credential programs:

Code	Title	Units
EDUC 100A	Educating Students with Disabilities in Inclusive Settings	2
EDUC 100B	Educating Students with Disabilities in Inclusive Settings Lab	1
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
HLSC 136		2
KINS 172	Movement Education [1]	3

[1] For MS only. If admitted, an equivalent PE/Health methods workshop can be completed during the credential program.

List of equivalent courses, visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/cred-equivalencies-prereqs-20160712.pdf).

Interview

All applicants must participate in a one-hour group interview as part of the screening process. After the supplemental program application is received by the Department, applicants are notified by email of the interview process and dates.

Applications Required

CSU Graduate School Application for the University:

Applicants not currently attending Sacramento State, Sacramento State graduating seniors, and Sacramento State students completing a master's degree or second bachelor's degree MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line.

Transcripts: Applicants who did not graduate from Sacramento State must submit ***one (1) set of sealed, official transcripts from ALL community colleges/colleges/universities attended, even if only ONE class was completed.*** If you have questions about the University graduate school application process, please contact the OGS at (916) 278-6470.

Foreign degrees: Transcripts from applicants with degrees from outside of the United States must review the information/instructions on the Office of Graduate Studies website (http://www.csus.edu/gradstudies/FutureStudents/ApplicantsWithForeignDocuments/).

NOTE: Foreign transcripts and other supporting documents are usually due much earlier than University and department application deadlines.

Teaching Credentials Program Supplemental Application:

All applicants must submit a supplemental program application packet that includes: a list of experiences related to teaching/working with children/youth, an essay, two completed & sealed reference forms, writing proficiency verification, subject matter competency verification, and basic skills requirement verification (CBEST or other approved verification). **Beginning in OCTOBER every year, the supplemental program applications with instructions/current requirements are available on the** College of Education website (http://www.csus.edu/coe/apply/credentials.html). Credential programs only begin in FALL semesters. Complete supplemental applications and all supporting documents must be submitted to the Teaching Credentials by February. The exact submission deadline date is posted once applications are available on the website.

Certificate of Clearance (COC/Fingerprint Clearance):

ALL applicants must submit verification of having been issued a clearance by the CA Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

- Applicants who *have already been issued* a clearance/permit/credential must submit a printout from the CTC website (http://www.ctc.ca.gov) showing the issuance date of a valid CA 30-day emergency permit, a valid CA Child Development Associate/Center permit, a valid CA credential, or a valid Certificate of Clearance.
- Applicants who *have NOT been issued* a clearance/permit/credential must apply for the Certificate of Clearance on the CTC website as well as complete the Live Scan fingerprinting process. Tips for completing the online application and Live Scan process can be found on the CTC website (http://www.ctc.ca.gov/credentials/online-services/pdf/web-app-tips.pdf). Proof of applying for the clearance and completing the Live Scan process MUST be submitted with the supplemental credential program application packet. Include as proof the following: a copy of the 'Payment Receipt' page from the on-line COC application AND a copy of your completed and scanned Live Scan form.
- Once your clearance is issued, you will receive an email from the CTC. Print this email and submit it with your supplemental program application packet. Or, if the email is received after you have submitted your application, submit the email directly to the Teaching Credentials Department in Eureka Hall - 401.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential **OR** if you are applying for a Special Education credential program, verify a valid Multiple or Single Subject credential.

***NOTE*:** If you answered "YES" to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (http://www.ctc.ca.gov/educator-discipline/self-reporting.html) for the instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional paperwork/documentation to the CTC, the processing of your clearance application can take six months or longer. This means you may not be eligible to start the credential program if your clearance is not issued before the

program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Additional Information

Verification of Bachelor's Degree

ALL applicants must obtain a bachelor's degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as "Degree(s) Awarded" with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher Credentialing (CTC), visit the CTC website (http://www.ctc.ca.gov/credentials/accreditation-bodies.html).

Foreign Transcript Evaluation

Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees[1], and other relevant documents prior to applying for a teaching credential program. This evaluation is required by the California Commission on Teacher Credentialing (CCTC). It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the **WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation**. For additional information on foreign transcript evaluations please visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl635.pdf).

[1] The bachelor's degree requirement for California credentials refers to the equivalent of a four-year (or more) college-level program.

Verification of completing the United States Constitution Requirement

California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a "C" or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement.

Additional Information for All Admitted Credential Candidates

- Continued Enrollment**: Continued enrollment in a Preliminary Credential Program is contingent upon the candidates maintaining a GPA of 3.0 in all professional education courses**. If incomplete grades or grades of 'D', 'F', and 'NC' (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee.
- Delays**:** Candidates who have to delay progress in a Preliminary Credential Program file a 'Program Delay Petition' in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Any student on academic probation is subject to automatic disqualification as a Credential candidate.

Appeal Process: A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation. Appeals petitions and assistance are available in the Teaching Credentials Office

Bilingual Authorization (BA)

The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all credential candidates with oral and written fluency as well as cultural/historical knowledge of the target group (Spanish or Hmong). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator, Karina Figueroa-Ramirez (figueroaramirez@csus.edu), for an advising appointment to review your transcripts.

Program Requirements

Code	Title	Units
Prerequisites for Admission to Program (6 Units)		
EDUC 100A	Educating Students with Disabilities in Inclusive Settings	2
EDUC 100B	Educating Students with Disabilities in Inclusive Settings Lab	1
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
HLSC 136		

Code	Title	Units
Required Courses (41 Units)		
EDMS 314	Mathematics Curriculum and Instruction for the Diverse K-8 Classroom	3
EDSP 119	Legal and Social Foundations of Special Education	3
EDSP 220	Language and Literacy in Inclusive Classrooms I	3
EDSP 221	Language and Literacy in Inclusive Classrooms II	3
EDSP 225A	Assessment and Evaluation for Students with Mild/Moderate Disabilities	2
EDSP 225B	Assessment and Evaluation for Students with Mild/Moderate Disabilities Lab	1
EDSP 229	Curriculum and Instruction Strategies for Students with Mild/Moderate Disabilities	3
EDSP 230	Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges	3
EDSP 232	Effective Communication and Collaborative Partnerships	2
EDSP 233	Final Student Teaching Seminar: Mild/Moderate	1
EDSP 237	Transition Strategies for Students with Mild/Moderate Disabilities	3
EDSP 292	Teaching English Learners with Disabilities	3
EDSP 471	Mild/Moderate: Field Experience	6
EDSP 472	Mild/Moderate: Student Teaching	5
or EDSP 473	Mild/Moderate: Intern Teaching	
Total Units		41

Education Specialist Credential Program: Mild/Moderate with Multiple Subject

Total units required for Credential: 54-62

Program Description

The Education Specialist Instruction Credential authorizes the holder to provide instruction and special education support as well as conduct Educational Assessments related to student's access to the academic core curriculum. Support services can be provided according to the credential holder's area of specialization in the following settings:

- Resource rooms or services
- Special education settings
- General education settings
- Special schools
- Home/hospital settings
- State hospitals
- Development centers
- Correctional facilities
- Non-public, non-sectarian schools and agencies
- Alternative and non-traditional instructional
- Public school settings other than classroom

Programs offered lead to Certificates of Eligibility and/or the Preliminary Credential in three specialties:

- **Education Specialist:** Teaching Credential Program: Early Childhood Special Education
- **Education Specialist:** Mild/Moderate Disabilities Specialist (M/M) and
- **Education Specialist:** Moderate/Severe Disabilities Specialist (M/S).

All above specialties comply with regulations and standards as issued by SB2042 and AB1059 (English Language Authorization).

University- and California Commission on Teacher Credentialing- (CTC) approved program options also allow candidates to pursue the M/M or M/S specialty concurrently with the Multiple Subject Credential. Another approved program allows candidates to add an ECSE Certificate to existing Clear M/M, M/S or other California Special Education Specialist credentials. For additional information regarding the ECSE Certificate, please contact the ECSE Coordinator (current the program is on hiatus) or Teaching Credentials Office.

All credential programs undergo continual review and change; current requirements are available on the Teaching Credentials website (http://www.csus.edu/coe/academics/credentials/). All candidates are required to seek advisement regarding credential coursework and must complete a program advisement plan prior to the start of the program. Candidates must take prerequisites prior to the start of the program; candidates who continue without advisement or do not complete prerequisites prior to the start of the program may be disenrolled.

Special Education Internships

All Preliminary Education Specialist programs at Sacramento State have been approved by CCTC as internship programs. In order to be eligible for an Intern Education Specialist Credential, candidates must

- have been admitted and cleared all admission requirements for the credential program;
- have received the recommendation of a faculty member;
- have received an offer of employment from an employer; and
- be pursuing an internship with a district/school that has a written internship agreement (Memorandum of Understanding) with Sacramento State.

Only candidates in their final semester of the program can be considered for internships.

Note: Candidates working under an Education Specialist Internship Credential must concurrently fulfill the requirements of the credential program and the internship appointment.

Preliminary Teaching Credentials

As new regulations become mandated by the California Commission on Teacher Credentialing (CTC) and the California Department of Education, requirements for meeting subject matter competency and/or requirements for all preliminary credential programs will be changed to comply with the new requirements. The preliminary credential program is legislated according to the SB 2042 (Preliminary) Credential requirements. For further information, please contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639.

Preliminary Teaching Credential Requirements

Completion of the Preliminary Teaching Credential requires that the candidate:

- hold a baccalaureate or higher degree in a field other than professional education from a regionally accredited college or university;
- complete an approved program of teacher preparation, including student teaching;
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the elementary school level, complete either an approved subject matter program or pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the secondary school level, complete either an approved subject matter program in one of the core academic subject areas or pass an approved subject-matter examination in a core academic subject area (CSET: California Subject Examination for Teachers);
- for a Multiple Subject credential, pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for Single Subject, complete either an approved subject matter program or pass the approved subject-matter examination (CSET) in the appropriate teaching area;

- for Single Subject, complete an approved course in the teaching of reading;
- for Multiple Subject, complete an approved course in the teaching of reading and pass the Reading Instruction Competence Assessment (RICA) exam;
- pass a college-level course or examination on the U.S. Constitution; and
- demonstrate California Basic Educational Skills (see subsection below on options available).

Teaching Credentials offers a variety of pathways for completing the Preliminary Credential programs depending on the program:

- a one-year (two-semester) program;
- a three-semester program;
- a two-year (four-semester) program – Education Specialist programs only; part-time options are available which will increase time to program completion

Field experience and student teaching are integral parts of the program leading to Preliminary Credentials. In both the Multiple Subject and Single Subject Teacher Preparation programs, candidates move through the program in cohorts. Full-time Education Specialist candidates follow a tightly-sequenced series of courses. In all teacher preparation programs, candidates complete fieldwork in public schools. All candidates will have experience working with children or youth from a broad range of cultural, ethnic, economic and special learning needs backgrounds.

Program Admission Requirements at a Glance

1. Experiences related to working with children or youth
2. References (2)
3. Essay
4. Official Transcripts from every college/university attended
5. Writing Proficiency
6. Basic Skills Competence (i.e., pass the CBEST)
7. Subject Matter Competence (i.e., pass the CSET)
8. Grade Point Average (GPA) of at least 2.67 overall or 2.75 in last 60 semester or 90 quarter units
9. Complete Credential Prerequisite Courses: EDUC 170, EDUC 100A, EDUC 100B, HLSC 136, and KINS 172 (MS only – equivalent workshop can be taken during the program)
10. Complete the Mandatory Interview

Applications Required at a Glance

- Teaching credentials Supplemental Program Application
- CSU Graduate School Application
- Certificate of Clearance Application (and fingerprint clearance through CTC)

Admission Requirements – General Information Only

Experiences Related to Working with Children or Youth (paid and/or volunteer)

A minimum of 45 hours of experience (closer to 100+ hours if you want to be competitive) with diverse populations is required to be considered for program admission. Possible field experiences can include: classroom instructional aide, tutoring, afterschool program, Peace Corps, camp counseling, child/youth recreation programs, coaching, group-home counseling, church school teaching, etc. Your responses will be evaluated using the following criteria:

- ***Recency:*** Experience needs to be recent – at least within 1-2 years of the application period. You can list all experiences gained on the supplemental application, but regency is key.
- ***Settings:*** Majority of your experiences should be in appropriate settings/schools (**ideally public schools**) with culturally, linguistically, and socioeconomically diverse students of the age group (i.e., elementary school, high school, etc.) or population (i.e., special needs population) you plan to teach. You will list the diversity of your experiences on the supplemental application.
- ***Supervision:*** Has the verifiable experience been gained under supervision? If so, you will need to list names of your supervisors on the supplemental application.

References

Applicants submit two reference forms (included in the supplemental application). Letters of recommendation will not be accepted in lieu of reference forms. ***Only reference forms submitted in sealed envelopes will be accepted.*** It is recommended that one of the references be from a person who has observed the applicant's academic competence (current or former instructor) and the other reference from a person who has observed the applicant working with children or youth. ***NOTE*:** References from family members will not be accepted.

Essay

Discuss a critical, current issue in teaching/education and the relationship of this issue to your motivation to become a teacher in a typed, two-page, double-spaced essay. ***NOTE:*** This prompt is subject to change.

Transcripts

Applicants must provide ***official, sealed transcripts*** from every community college/college/university attended, even if only ONE class was completed. ***Sacramento State students and Sacramento State graduates are exempt, unless coursework was completed at another college after you graduated***.

Writing Proficiency

Satisfying writing proficiency is a program admission requirement. This requirement may be met in one of the following ways:

1. Pass the entire CBEST (must pass the writing portion with a minimum of 37 points); **or**
2. Pass the CSET: Writing Skills Test (*Multiple Subject applicants only*); **or**
3. Meet the graduation writing requirement (GWAR) at any CSU campus; **or**
4. Successfully complete an upper-division advanced English composition course, with a "B" grade or better.

Basic Skills Requirement (BSR)

Satisfying the basic skills requirement is a program admission requirement. Select one of the following options to meet this requirement. For detailed information visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl667.pdf).

1. Pass the California Basic Educational Skills Test (CBEST) – all sections must be taken and passed
2. Pass the CSU Early Assessment Program (EAP)English and Math sections(tests completed in high school)
3. Pass the CSU English Placement Test (EPT) and the Entry Level Math (ELM) Test (For more information, visit the Testing Center website (http://www.csus.edu/testing/))
4. Pass the CSET: Writing Skills Test (available to Multiple Subject applicants only)
5. Pass a basic skills examination from another state

Register online at the CTC Exams website (http://www.ctcexams.nesinc.com). **Take exams no later than February for FALL admission consideration.**

Subject Matter Competence (SMC)

Applicants are required to meet SMC to be considered for admission:

Special Education: Applicants holding one of the following types of credentials, may have met the subject matter competency requirement: five-year preliminary, clear, professional clear, or life credential in the following authorizations: Multiple Subject, Single Subject, Standard Elementary, Standard Secondary, General Elementary, or General Secondary. *Applicants who do not hold one of the types of credentials listed above* can meet SMC through one of the following options:

- CSET for Multiple Subjects option or
- Single Subject option (see requirements below)

Multiple Subject: All applicants must satisfy SMC by passing the California Subject Examinations for Teachers (CSET): Multiple Subjects subtests I, II, and III. ***NOTE*:** CSET passing scores on all three (3) subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration*.** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).

Single Subject: Applicants may satisfy SMC in ONE of two ways, either (1) by examination **or** (2) by completing an approved undergraduate program of subject matter coursework.

1. **Examination(s)** Take and pass the California Subject Examinations for Teachers (CSET) in your subject area. Be sure to take all required subtests in your teaching area. ***NOTE*:** CSET passing scores on all subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration*.** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).
2. **Coursework** Complete a California Commission-approved undergraduate academic subject matter preparation (SMP) program from an accredited California college/university.

SMP Coursework Options

- **The Sacramento State Subject Matter Program (SMP)** is a California approved baccalaureate program that prepares individuals for teaching. Sac State students completing a SMP must meet with an approved advisor as soon as possible in order to complete the Subject Matter Competence Verification Form.
  For a listing of faculty advisors visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/smp-advisor-20160926.pdf).
- **Non-Sacramento State applicants** who completed an approved SMP on a California campus other than Sacramento State must submit verification of completion of the SMP on letterhead stationery of your school, signed by the approved evaluator, instead of using the Subject Matter Competence Verification Form. Check with your College's Credentials office for the approved evaluator.

Grade Point Average (GPA) Required

In order to be considered for admission to a Teaching Credential Program, applicants must have attained a cumulative GPA of at least 2.67 in all baccalaureate and post-baccalaureate course work (if completed) **OR** a GPA of at least 2.75 in the last 60 semester or 90 quarter units attempted.

Pre-requisite Credential Courses – to be completed PRIOR to starting the credential programs:

Code	Title	Units
EDUC 100A	Educating Students with Disabilities in Inclusive Settings	2
EDUC 100B	Educating Students with Disabilities in Inclusive Settings Lab	1
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
HLSC 136		2
KINS 172	Movement Education [1]	3

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List of equivalent courses, visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/cred-equivalencies-prereqs-20160712.pdf).

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Specific Additional Admission Requirements

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Prerequisites for Admission to Program (6 Units)		
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EDUC 100B	Educating Students with Disabilities in Inclusive Settings Lab	1
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
HLSC 136		

Course/experience equivalencies may be granted by assigned EDS advisor as warranted.

Note: To obtain the Clear Multiple Subject Credential, candidates must successfully complete a CCTC approved induction program, determined by employer.

Program Requirements

Code	Title	Units
Program Coursework (41 Units)		
EDSP 119	Legal and Social Foundations of Special Education	3
EDMS 314	Mathematics Curriculum and Instruction for the Diverse K-8 Classroom	3
EDSP 220	Language and Literacy in Inclusive Classrooms I	3
EDSP 221	Language and Literacy in Inclusive Classrooms II	3
EDSP 225A	Assessment and Evaluation for Students with Mild/Moderate Disabilities	2
EDSP 225B	Assessment and Evaluation for Students with Mild/Moderate Disabilities Lab	1
EDSP 229	Curriculum and Instruction Strategies for Students with Mild/Moderate Disabilities	3
EDSP 230	Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges	3
EDSP 232	Effective Communication and Collaborative Partnerships	2
EDSP 233	Final Student Teaching Seminar: Mild/Moderate	1
EDSP 237	Transition Strategies for Students with Mild/Moderate Disabilities	3
EDSP 292	Teaching English Learners with Disabilities	3
EDSP 471	Mild/Moderate: Field Experience	6
or EDSP 420A	Multiple Subject Field Experience	
EDSP 472	Mild/Moderate: Student Teaching	5
or EDSP 473	Mild/Moderate: Intern Teaching	
Multiple Subject Course Requirement (16 Units)		
EDMS 300	Teaching Performance Assessment-Multiple Subjects-Mathematics	1
EDMS 315	History-Social Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 316	Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 332		
EDSP 420B	Multiple Subject Student Teaching	8
EDMS 317	Visual and Performing Arts Methods for the Diverse K-8 Classroom	1
Total Units		57

Education Specialist Credential Program: Moderate/Severe

Total units required for Credential: 50-56

Program Description

The Education Specialist Instruction Credential authorizes the holder to provide instruction and special education support as well as conduct Educational Assessments related to student's access to the academic core curriculum. Support services can be provided according to the credential holder's area of specialization in the following settings:

- Resource rooms or services
- Special education settings
- General education settings
- Special schools
- Home/hospital settings
- State hospitals
- Development centers
- Correctional facilities
- Non-public, non-sectarian schools and agencies
- Alternative and non-traditional instructional
- Public school settings other than classroom

Programs offered lead to Certificates of Eligibility and/or the Preliminary Credential in three specialties:

- **Education Specialist:** Teaching Credential Program: Early Childhood Special Education

- **Education Specialist:** Mild/Moderate Disabilities Specialist (M/M) and
- **Education Specialist:** Moderate/Severe Disabilities Specialist (M/S).

All above specialties comply with regulations and standards as issued by SB2042 and AB1059 (English Language Authorization).

University- and California Commission on Teacher Credentialing- (CTC) approved program options also allow candidates to pursue the M/M or M/S specialty concurrently with the Multiple Subject Credential. Another approved program allows candidates to add an ECSE Certificate to existing Clear M/M, M/S or other California Special Education Specialist credentials. For additional information regarding the ECSE Certificate, please contact the ECSE Coordinator (current the program is on hiatus) or Teaching Credentials Office.

All credential programs undergo continual review and change; current requirements are available on the Teaching Credentials website (http://www.csus.edu/coe/academics/credentials/). All candidates are required to seek advisement regarding credential coursework and must complete a program advisement plan prior to the start of the program. Candidates must take prerequisites prior to the start of the program; candidates who continue without advisement or do not complete prerequisites prior to the start of the program may be disenrolled.

Special Education Internships

All Preliminary Education Specialist programs at Sacramento State have been approved by CCTC as internship programs. In order to be eligible for an Intern Education Specialist Credential, candidates must

- have been admitted and cleared all admission requirements for the credential program;
- have received the recommendation of a faculty member;
- have received an offer of employment from an employer; and
- be pursuing an internship with a district/school that has a written internship agreement (Memorandum of Understanding) with Sacramento State.

Only candidates in their final semester of the program can be considered for internships.

Note: Candidates working under an Education Specialist Internship Credential must concurrently fulfill the requirements of the credential program and the internship appointment.

Preliminary Teaching Credentials

As new regulations become mandated by the California Commission on Teacher Credentialing (CTC) and the California Department of Education, requirements for meeting subject matter competency and/or requirements for all preliminary credential programs will be changed to comply with the new requirements. The preliminary credential program is legislated according to the SB 2042 (Preliminary) Credential requirements. For further information, please contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639.

Preliminary Teaching Credential Requirements

Completion of the Preliminary Teaching Credential requires that the candidate:

- hold a baccalaureate or higher degree in a field other than professional education from a regionally accredited college or university;
- complete an approved program of teacher preparation, including student teaching;
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the elementary school level, complete either an approved subject matter program or pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the secondary school level, complete either an approved subject matter program in one of the core academic subject areas or pass an approved subject-matter examination in a core academic subject area (CSET: California Subject Examination for Teachers);
- for a Multiple Subject credential, pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for Single Subject, complete either an approved subject matter program or pass the approved subject-matter examination (CSET) in the appropriate teaching area;
- for Single Subject, complete an approved course in the teaching of reading;
- for Multiple Subject, complete an approved course in the teaching of reading and pass the Reading Instruction Competence Assessment (RICA) exam;
- pass a college-level course or examination on the U.S. Constitution; and
- demonstrate California Basic Educational Skills (see subsection below on options available).

Teaching Credentials offers a variety of pathways for completing the Preliminary Credential programs depending on the program:

- a one-year (two-semester) program;
- a three-semester program;
- a two-year (four-semester) program – Education Specialist programs only; part-time options are available which will increase time to program completion

Field experience and student teaching are integral parts of the program leading to Preliminary Credentials. In both the Multiple Subject and Single Subject Teacher Preparation programs, candidates move through the program in cohorts. Full-time Education Specialist candidates follow a tightly-sequenced series of courses. In all teacher preparation programs, candidates complete fieldwork in public schools. All candidates will have experience working with children or youth from a broad range of cultural, ethnic, economic and special learning needs backgrounds.

Program Admission Requirements at a Glance

1. Experiences related to working with children or youth
2. References (2)
3. Essay
4. Official Transcripts from every college/university attended
5. Writing Proficiency
6. Basic Skills Competence (i.e., pass the CBEST)
7. Subject Matter Competence (i.e., pass the CSET)

8. Grade Point Average (GPA) of at least 2.67 overall or 2.75 in last 60 semester or 90 quarter units
9. Complete Credential Prerequisite Courses: EDUC 170, EDUC 100A, EDUC 100B, HLSC 136, and KINS 172 (MS only – equivalent workshop can be taken during the program)
10. Complete the Mandatory Interview

Applications Required at a Glance

- Teaching credentials Supplemental Program Application
- CSU Graduate School Application
- Certificate of Clearance Application (and fingerprint clearance through CTC)

Admission Requirements – General Information Only

Experiences Related to Working with Children or Youth (paid and/or volunteer)

A minimum of 45 hours of experience (closer to 100+ hours if you want to be competitive) with diverse populations is required to be considered for program admission. Possible field experiences can include: classroom instructional aide, tutoring, afterschool program, Peace Corps, camp counseling, child/youth recreation programs, coaching, group-home counseling, church school teaching, etc. Your responses will be evaluated using the following criteria:

- ***Recency:*** Experience needs to be recent – at least within 1-2 years of the application period. You can list all experiences gained on the supplemental application, but regency is key.
- ***Settings:*** Majority of your experiences should be in appropriate settings/schools (**ideally public schools**) with culturally, linguistically, and socioeconomically diverse students of the age group (i.e., elementary school, high school, etc.) or population (i.e., special needs population) you plan to teach. You will list the diversity of your experiences on the supplemental application.
- ***Supervision:*** Has the verifiable experience been gained under supervision? If so, you will need to list names of your supervisors on the supplemental application.

References

Applicants submit two reference forms (included in the supplemental application). Letters of recommendation will not be accepted in lieu of reference forms. ***Only reference forms submitted in sealed envelopes will be accepted.*** It is recommended that one of the references be from a person who has observed the applicant's academic competence (current or former instructor) and the other reference from a person who has observed the applicant working with children or youth. ***NOTE*:** References from family members will not be accepted.

Essay

Discuss a critical, current issue in teaching/education and the relationship of this issue to your motivation to become a teacher in a typed, two-page, double-spaced essay. ***NOTE:*** This prompt is subject to change.

Transcripts

Applicants must provide ***official, sealed transcripts*** from every community college/college/university attended, even if only ONE class was completed. ***Sacramento State students and Sacramento State graduates are exempt, unless coursework was completed at another college after you graduated***.

Writing Proficiency

Satisfying writing proficiency is a program admission requirement. This requirement may be met in one of the following ways:

1. Pass the entire CBEST (must pass the writing portion with a minimum of 37 points); **or**
2. Pass the CSET: Writing Skills Test (*Multiple Subject applicants only*); **or**
3. Meet the graduation writing requirement (GWAR) at any CSU campus; **or**
4. Successfully complete an upper-division advanced English composition course, with a "B" grade or better.

Basic Skills Requirement (BSR)

Satisfying the basic skills requirement is a program admission requirement. Select one of the following options to meet this requirement. For detailed information visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl667.pdf).

1. Pass the California Basic Educational Skills Test (CBEST) – all sections must be taken and passed
2. Pass the CSU Early Assessment Program (EAP)English and Math sections(tests completed in high school)
3. Pass the CSU English Placement Test (EPT) and the Entry Level Math (ELM) Test (For more information, visit the Testing Center website (http://www.csus.edu/testing/))
4. Pass the CSET: Writing Skills Test (available to Multiple Subject applicants only)
5. Pass a basic skills examination from another state

Register online at the CTC Exams website (http://www.ctcexams.nesinc.com). **Take exams no later than February for FALL admission consideration.**

Subject Matter Competence (SMC)

Applicants are required to meet SMC to be considered for admission:

Special Education: Applicants holding one of the following types of credentials, may have met the subject matter competency requirement: five-year preliminary, clear, professional clear, or life credential in the following authorizations: Multiple Subject, Single Subject, Standard Elementary, Standard Secondary, General Elementary, or General Secondary. *Applicants who do not hold one of the types of credentials listed above* can meet SMC through one of the following options:

- CSET for Multiple Subjects option or
- Single Subject option (see requirements below)

Multiple Subject: All applicants must satisfy SMC by passing the California Subject Examinations for Teachers (CSET): Multiple Subjects subtests I, II, and III. ***NOTE*:** CSET passing scores on all three (3) subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration.*** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).

Single Subject: Applicants may satisfy SMC in ONE of two ways, either (1) by examination **or** (2) by completing an approved undergraduate program of subject matter coursework.

1. **Examination(s)** Take and pass the California Subject Examinations for Teachers (CSET) in your subject area. Be sure to take all required subtests in your teaching area. ***NOTE*:** CSET passing scores on all subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration*.** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).
2. **Coursework** Complete a California Commission-approved undergraduate academic subject matter preparation (SMP) program from an accredited California college/university.

SMP Coursework Options

- **The Sacramento State Subject Matter Program (SMP)** is a California approved baccalaureate program that prepares individuals for teaching. Sac State students completing a SMP must meet with an approved advisor as soon as possible in order to complete the Subject Matter Competence Verification Form. For a listing of faculty advisors visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/smp-advisor-20160926.pdf).
- **Non-Sacramento State applicants** who completed an approved SMP on a California campus other than Sacramento State must submit verification of completion of the SMP on letterhead stationery of your school, signed by the approved evaluator, instead of using the Subject Matter Competence Verification Form. Check with your College's Credentials office for the approved evaluator.

Grade Point Average (GPA) Required

In order to be considered for admission to a Teaching Credential Program, applicants must have attained a cumulative GPA of at least 2.67 in all baccalaureate and post-baccalaureate course work (if completed) **OR** a GPA of at least 2.75 in the last 60 semester or 90 quarter units attempted.

Pre-requisite Credential Courses – to be completed PRIOR to starting the credential programs:

Code	Title	Units
EDUC 100A	Educating Students with Disabilities in Inclusive Settings	2
EDUC 100B	Educating Students with Disabilities in Inclusive Settings Lab	1
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
HLSC 136		2
KINS 172	Movement Education [1]	3

[1] For MS only. If admitted, an equivalent PE/Health methods workshop can be completed during the credential program.

List of equivalent courses, visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/cred-equivalencies-prereqs-20160712.pdf).

Interview

All applicants must participate in a one-hour group interview as part of the screening process. After the supplemental program application is received by the Department, applicants are notified by email of the interview process and dates.

Applications Required

CSU Graduate School Application for the University:

Applicants not currently attending Sacramento State, Sacramento State graduating seniors, and Sacramento State students completing a master's degree or second bachelor's degree MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line.

Transcripts*:** Applicants who did not graduate from Sacramento State must submit ***one (1) set of sealed, official transcripts from ALL community colleges/colleges/universities attended, even if only ONE class was completed. If you have questions about the University graduate school application process, please contact the OGS at (916) 278-6470.

***Foreign degrees*:** Transcripts from applicants with degrees from outside of the United States must review the information/instructions on the Office of Graduate Studies website (http://www.csus.edu/gradstudies/FutureStudents/ApplicantsWithForeignDocuments/).

NOTE: Foreign transcripts and other supporting documents are usually due much earlier than University and department application deadlines.

Teaching Credentials Program Supplemental Application:

All applicants must submit a supplemental program application packet that includes: a list of experiences related to teaching/working with children/youth, an essay, two completed & sealed reference forms, writing proficiency verification, subject matter competency verification, and basic skills requirement verification (CBEST or other approved verification). **Beginning in OCTOBER every year, the supplemental program applications with instructions/current requirements are available on the** College of Education website **(**http://www.csus.edu/coe/apply/credentials.html**)**. Credential programs only begin in FALL semesters. Complete supplemental applications and all supporting documents must be submitted to the Teaching Credentials by February. The exact submission deadline date is posted once applications are available on the website.

Certificate of Clearance (COC/Fingerprint Clearance):

ALL applicants must submit verification of having been issued a clearance by the CA Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

- Applicants who *have already been issued* a clearance/permit/credential must submit a printout from the CTC website (http://www.ctc.ca.gov) showing the issuance date of a valid CA 30-day emergency permit, a valid CA Child Development Associate/Center permit, a valid CA credential, or a valid Certificate of Clearance.
- Applicants who *have NOT been issued* a clearance/permit/credential must apply for the Certificate of Clearance on the CTC website as well as complete the Live Scan fingerprinting process. Tips for completing the online application and Live Scan process can be found on the CTC website (http://www.ctc.ca.gov/credentials/online-services/pdf/web-app-tips.pdf). Proof of applying for the clearance and completing the Live Scan process MUST be submitted with the supplemental credential program application packet. Include as proof the following: a copy of the 'Payment Receipt' page from the on-line COC application AND a copy of your completed and scanned Live Scan form.
- Once your clearance is issued, you will receive an email from the CTC. Print this email and submit it with your supplemental program application packet. Or, if the email is received after you have

submitted your application, submit the email directly to the Teaching Credentials Department in Eureka Hall - 401.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential **OR** if you are applying for a Special Education credential program, verify a valid Multiple or Single Subject credential.

***NOTE*:** If you answered "YES" to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (http://www.ctc.ca.gov/educator-discipline/self-reporting.html) for the instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional paperwork/documentation to the CTC, the processing of your clearance application can take six months or longer. This means you may not be eligible to start the credential program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Additional Information

Verification of Bachelor's Degree

ALL applicants must obtain a bachelor's degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as "Degree(s) Awarded" with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher Credentialing (CTC), visit the CTC website (http://www.ctc.ca.gov/credentials/accreditation-bodies.html).

Foreign Transcript Evaluation

Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees[1], and other relevant documents prior to applying for a teaching credential program. This evaluation is required by the California Commission on Teacher Credentialing (CCTC). It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the **WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation**. For additional information on foreign transcript evaluations please visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl635.pdf).

[1] The bachelor's degree requirement for California credentials refers to the equivalent of a four-year (or more) college-level program.

Verification of completing the United States Constitution Requirement

California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a "C" or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement.

Additional Information for All Admitted Credential Candidates

- Continued Enrollment**: Continued enrollment in a Preliminary Credential Program is contingent upon the candidates maintaining a GPA of 3.0 in all professional education courses**. If incomplete grades or grades of 'D', 'F', and 'NC' (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee.
- Delays**:** Candidates who have to delay progress in a Preliminary Credential Program file a 'Program Delay Petition' in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Any student on academic probation is subject to automatic disqualification as a Credential candidate.

Appeal Process: A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation. Appeals petitions and assistance are available in the Teaching Credentials Office

Bilingual Authorization (BA)

The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all credential candidates with oral and written fluency as well as cultural/historical knowledge of the target group (Spanish or Hmong). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator, Karina Figueroa-Ramirez (figueroaramirez@csus.edu), for an advising appointment to review your transcripts.

Prerequisite Requirements

Code	Title	Units
Required Prerequisites (6 Units)		
EDUC 100A	Educating Students with Disabilities in Inclusive Settings	2
EDUC 100B	Educating Students with Disabilities in Inclusive Settings Lab	1
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3

Course/experience equivalencies may be granted by assigned EDS advisor as warranted.

Program Requirements

Code	Title	Units
Required Courses (47 Units)		
EDSP 119	Legal and Social Foundations of Special Education	3
EDSP 205	Methods in Access and Inclusion in the Core Curriculum: Mod/Severe Disabilities	2
EDSP 206	Collaborative Program Planning with Families, Professionals, and Communities	3
EDSP 207	Secondary/Post-Secondary Methods and Transition Planning: Moderate/Severe Disabilities	2

EDSP 208	Evidenced-based Assessment and Instruction: Mod/Severe Disabilities	2
EDSP 209	Developing Augmentative & Alternative Communication Systems: Assessment and Intervention	3
EDSP 216	Understanding the Implications of Developmental Diversity in Children and Youth	3
EDSP 218	Instructional Strategies: Low Incidence Disabilities	3
EDSP 220	Language and Literacy in Inclusive Classrooms I	3
EDSP 221	Language and Literacy in Inclusive Classrooms II	3
EDSP 230	Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges	3
EDSP 235	Field Seminar in Program and Instruction: Mod/Severe Disabilities	2
EDSP 236	Student Teaching Seminar: Moderate/Severe Disabilities	1
EDSP 292	Teaching English Learners with Disabilities	3
EDSP 413	Field Experience I: Moderate/Severe Disabilities	3
EDSP 414	Field Experience II: Moderate/Severe	3
EDSP 415	Student Teaching: Moderate/Severe	5
Total Units		47

Education Specialist Credential Program: Moderate/Severe with Multiple Subject

Total units required for Credential: 70-76

Program Description

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- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the secondary school level, complete either an approved subject matter program in one of the core academic subject areas or pass an approved subject-matter examination in a core academic subject area (CSET: California Subject Examination for Teachers);
- for a Multiple Subject credential, pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for Single Subject, complete either an approved subject matter program or pass the approved subject-matter examination (CSET) in the appropriate teaching area;
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- demonstrate California Basic Educational Skills (see subsection below on options available).

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2. References (2)
3. Essay
4. Official Transcripts from every college/university attended
5. Writing Proficiency
6. Basic Skills Competence (i.e., pass the CBEST)
7. Subject Matter Competence (i.e., pass the CSET)
8. Grade Point Average (GPA) of at least 2.67 overall or 2.75 in last 60 semester or 90 quarter units
9. Complete Credential Prerequisite Courses: EDUC 170, EDUC 100A, EDUC 100B, HLSC 136, and KINS 172 (MS only – equivalent workshop can be taken during the program)
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Essay

Discuss a critical, current issue in teaching/education and the relationship of this issue to your motivation to become a teacher in a typed, two-page, double-spaced essay. ***NOTE:*** This prompt is subject to change.

Transcripts

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3. Meet the graduation writing requirement (GWAR) at any CSU campus; **or**
4. Successfully complete an upper-division advanced English composition course, with a "B" grade or better.

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3. Pass the CSU English Placement Test (EPT) and the Entry Level Math (ELM) Test (For more information, visit the Testing Center website (http://www.csus.edu/testing/))
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Applicants are required to meet SMC to be considered for admission:

Special Education: Applicants holding one of the following types of credentials, may have met the subject matter competency requirement: five-year preliminary, clear, professional clear, or life credential in the following authorizations: Multiple Subject, Single Subject, Standard Elementary, Standard Secondary, General Elementary, or General Secondary. *Applicants who do not hold one of the types of credentials listed above* can meet SMC through one of the following options:

- CSET for Multiple Subjects option or
- Single Subject option (see requirements below)

Multiple Subject: All applicants must satisfy SMC by passing the California Subject Examinations for Teachers (CSET): Multiple Subjects subtests I, II, and III. ***NOTE*:** CSET passing scores on all three (3) subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration*.** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).

Single Subject: Applicants may satisfy SMC in ONE of two ways, either (1) by examination **or** (2) by completing an approved undergraduate program of subject matter coursework.

1. **Examination(s)** Take and pass the California Subject Examinations for Teachers (CSET) in your subject area. Be sure to take all required subtests in your teaching area. ***NOTE*:** CSET passing scores on all subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration*.** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).
2. **Coursework** Complete a California Commission-approved undergraduate academic subject matter preparation (SMP) program from an accredited California college/university.

SMP Coursework Options

- **The Sacramento State Subject Matter Program (SMP)** is a California approved baccalaureate program that prepares individuals for teaching. Sac State students completing a SMP must meet with an approved advisor as soon as possible in order to complete the Subject Matter Competence Verification Form. For a listing of faculty advisors visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/smp-advisor-20160926.pdf).
- **Non-Sacramento State applicants** who completed an approved SMP on a California campus other than Sacramento State must submit verification of completion of the SMP on letterhead stationery of your school, signed by the approved evaluator, instead of using the Subject Matter Competence Verification Form. Check with your College's Credentials office for the approved evaluator.

Grade Point Average (GPA) Required

In order to be considered for admission to a Teaching Credential Program, applicants must have attained a cumulative GPA of at least 2.67 in all baccalaureate and post-baccalaureate course work (if completed) **OR** a GPA of at least 2.75 in the last 60 semester or 90 quarter units attempted.

Pre-requisite Credential Courses – to be completed PRIOR to starting the credential programs:

Code	Title	Units
EDUC 100A	Educating Students with Disabilities in Inclusive Settings	2
EDUC 100B	Educating Students with Disabilities in Inclusive Settings Lab	1
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
HLSC 136		2
KINS 172	Movement Education [1]	3

[1] For MS only. If admitted, an equivalent PE/Health methods workshop can be completed during the credential program.

List of equivalent courses, visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/cred-equivalencies-prereqs-20160712.pdf).

Interview

All applicants must participate in a one-hour group interview as part of the screening process. After the supplemental program application is received by the Department, applicants are notified by email of the interview process and dates.

Applications Required

CSU Graduate School Application for the University:

Applicants not currently attending Sacramento State, Sacramento State graduating seniors, and Sacramento State students completing a master's degree or second bachelor's degree MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line.

Transcripts: Applicants who did not graduate from Sacramento State must submit ***one (1) set of sealed, official transcripts from ALL community colleges/colleges/universities attended, even if only ONE class was completed.*** If you have questions about the University graduate school application process, please contact the OGS at (916) 278-6470.

Foreign degrees: Transcripts from applicants with degrees from outside of the United States must review the information/instructions on the Office of Graduate Studies website (http://www.csus.edu/gradstudies/FutureStudents/ApplicantsWithForeignDocuments/).

NOTE: Foreign transcripts and other supporting documents are usually due much earlier than University and department application deadlines.

Teaching Credentials Program Supplemental Application:

All applicants must submit a supplemental program application packet that includes: a list of experiences related to teaching/working with children/youth, an essay, two completed & sealed reference forms, writing proficiency verification, subject matter competency verification, and basic skills requirement verification (CBEST or other approved verification). **Beginning in OCTOBER every year, the supplemental program applications with instructions/current requirements are available on the** College of Education website **(**http://www.csus.edu/coe/apply/credentials.html**)**. Credential programs only begin in FALL semesters. Complete supplemental applications and all supporting documents must be submitted to the Teaching Credentials by February. The exact submission deadline date is posted once applications are available on the website.

Certificate of Clearance (COC/Fingerprint Clearance):

ALL applicants must submit verification of having been issued a clearance by the CA Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

- Applicants who *have already been issued* a clearance/permit/credential must submit a printout from the CTC website (http://www.ctc.ca.gov) showing the issuance date of a valid CA 30-day emergency permit, a valid CA Child Development Associate/Center permit, a valid CA credential, or a valid Certificate of Clearance.
- Applicants who *have NOT been issued* a clearance/permit/credential must apply for the Certificate of Clearance on the CTC website as well as complete the Live Scan fingerprinting process. Tips for completing the online application and Live Scan process can be found on the CTC website (http://www.ctc.ca.gov/credentials/online-services/pdf/web-app-tips.pdf). Proof of applying for the clearance and completing the Live Scan process MUST be submitted with the supplemental credential program application packet. Include as proof the following: a copy of the 'Payment Receipt' page from the on-line COC application AND a copy of your completed and scanned Live Scan form.
- Once your clearance is issued, you will receive an email from the CTC. Print this email and submit it with your supplemental program application packet. Or, if the email is received after you have submitted your application, submit the email directly to the Teaching Credentials Department in Eureka Hall - 401.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential **OR** if you are applying for a Special Education credential program, verify a valid Multiple or Single Subject credential.

***NOTE*:** If you answered "YES" to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (http://www.ctc.ca.gov/educator-discipline/self-reporting.html) for the instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional paperwork/documentation to the CTC, the processing of your clearance application can take six months or longer. This means you may not be eligible to start the credential program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Additional Information

Verification of Bachelor's Degree

ALL applicants must obtain a bachelor's degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as "Degree(s) Awarded" with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher Credentialing (CTC), visit the CTC website (http://www.ctc.ca.gov/credentials/accreditation-bodies.html).

Foreign Transcript Evaluation

Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees[1], and other relevant documents prior to applying for a teaching credential program. This evaluation is required by the California Commission on Teacher Credentialing (CCTC). It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the **WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation**. For additional information on foreign transcript evaluations please visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl635.pdf).

[1] The bachelor's degree requirement for California credentials refers to the equivalent of a four-year (or more) college-level program.

Verification of completing the United States Constitution Requirement

California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a "C" or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement.

Additional Information for All Admitted Credential Candidates

- Continued Enrollment**: Continued enrollment in a Preliminary Credential Program is contingent upon the candidates maintaining a GPA of 3.0 in all professional education courses**. If incomplete grades or grades of 'D', 'F', and 'NC' (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee.
- Delays**:** Candidates who have to delay progress in a Preliminary Credential Program file a 'Program Delay Petition' in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Any student on academic probation is subject to automatic disqualification as a Credential candidate.

Appeal Process: A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation. Appeals petitions and assistance are available in the Teaching Credentials Office

Bilingual Authorization (BA)

The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all credential candidates with oral and written fluency as well as cultural/historical knowledge of the target group (Spanish or Hmong). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator, Karina Figueroa-Ramirez (figueroaramirez@csus.edu), for an advising appointment to review your transcripts.

Prerequisite Requirements

Code	Title	Units
Required Prerequisite (6 Units)		
EDUC 100A	Educating Students with Disabilities in Inclusive Settings	2
EDUC 100B	Educating Students with Disabilities in Inclusive Settings Lab	1
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3

Course/experience equivalencies may be granted by assigned Special Education advisor as warranted.

Program Requirements

Code	Title	Units
Required Courses (47 Units)		
EDSP 119	Legal and Social Foundations of Special Education	3
EDSP 205	Methods in Access and Inclusion in the Core Curriculum: Mod/Severe Disabilities	2
EDSP 206	Collaborative Program Planning with Families, Professionals, and Communities	3
EDSP 207	Secondary/Post-Secondary Methods and Transition Planning: Moderate/Severe Disabilities	2
EDSP 208	Evidenced-based Assessment and Instruction: Mod/Severe Disabilities	2
EDSP 209	Developing Augmentative & Alternative Communication Systems: Assessment and Intervention	3
EDSP 216	Understanding the Implications of Developmental Diversity in Children and Youth	3
EDSP 218	Instructional Strategies: Low Incidence Disabilities	3
EDSP 220	Language and Literacy in Inclusive Classrooms I	3
EDSP 221	Language and Literacy in Inclusive Classrooms II	3
EDSP 230	Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges	3
EDSP 235	Field Seminar in Program and Instruction: Mod/Severe Disabilities	2
EDSP 236	Student Teaching Seminar: Moderate/Severe Disabilities	1
EDSP 292	Teaching English Learners with Disabilities	3
EDSP 413	Field Experience I: Moderate/Severe Disabilities	3
EDSP 414	Field Experience II: Moderate/Severe	3
EDSP 415	Student Teaching: Moderate/Severe	5
Multiple Subject Course Requirements (21 Units)		
HLSC 136		2
EDMS 300	Teaching Performance Assessment-Multiple Subjects-Mathematics	1
EDMS 314	Mathematics Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 315	History-Social Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 316	Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 317	Visual and Performing Arts Methods for the Diverse K-8 Classroom	1
EDMS 332		
EDSP 420B	Multiple Subject Student Teaching	8
Total Units		68

MA in Teaching with Education Specialist Early Childhood Special Education Teaching Credential

Program Description

The MA in Teaching with Education Specialist Early Childhood Special Education (ECSE) Teaching Credential blends a teacher preparation

program with a Master of Arts in Teaching (MAT). This program is a distance learning program offered fully online to candidates across the state of California. Courses are taken in the evening with both class meetings and supervision of field work and student teaching provided online in mostly a live/synchronous format.

The Education Specialist ECSE Teaching Credential authorizes the holder to provide educational services to infants, toddlers, and preschool age children with disabilities and their families in home-based programs, center-based settings, and school-based settings. This credential embeds the English Learner Authorization (ELA) and Autism Spectrum Disorder (ASD) Authorization, which prepares candidates to work with second language learners and students with autism spectrum disorder, respectively. Additionally, teacher candidates may choose to apply to be an intern during the course of their program.

- The ECSE Teaching Credential provides candidates with applied experiences through coursework connecting theory to practice and supervised work with children with a wide range of disabilities across early field experiences and two student teaching requirements: 1) Infant/Toddler, and 2) Preschool/Kindergarten. The teacher preparation coursework focuses on preparing effective teachers for working with diverse student populations with an emphasis on preparing socially just teachers and leaders for systems change, committed to equity and inclusion in culturally and linguistically diverse schools and communities.
- The MAT coursework focuses on inquiry-based education which includes hands-on instruction with problem-based learning and issues-centered curriculum and a focus on reflection during the teaching and research process. The program foundation rests in social justice and equity in education for all children and youth, including those with disabilities and their families.

Upon completion of the ECSE Teaching Credential coursework, program candidates will complete an additional sequence of four MAT courses for a total of 15 additional units. Throughout the MAT program, candidates will learn how to critically examine evidence-based practices, policy issues, and current research on teaching and learning in the field of special education. Candidates will be expected to apply analytical skills to develop and implement standards-based curriculum in diverse settings using best instructional and inclusive practices that positively impact the learning of all students, including English Learners and children and youth with disabilities. Candidates also will conduct original teacher action research using practice-based methods in diverse educational settings. The materials and associated activities presented in the MAT coursework are highly integrated to support candidates with successful completion of the Master of Arts in Teaching degree at the end of the program.

Preliminary Teaching Credentials

As new regulations become mandated by the California Commission on Teacher Credentialing (CTC) and the California Department of Education, requirements for meeting subject matter competency and/or requirements for all preliminary credential programs will be changed to comply with the new requirements. The preliminary credential program is legislated according to the SB 2042 (Preliminary) Credential requirements. For further information, please contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639.

Program Admission Requirements

1. Submit a table listing a minimum of 45 hours of experiences related to working with children or youth
2. Submit two program reference forms: one from a person who has observed the applicant's academic competence (current or former instructor) and the other from a person who has observed the applicant working with children or youth. ***NOTE*:** References from family members will not be accepted
3. Submit a graduate writing sample in the form of an essay addressing a prompt related to the program's foundation in social justice and equity tied to a current issue in education. The essay prompt will change. Refer to the supplemental application for the current essay prompt
4. Satisfy writing proficiency in one of the following ways:
   a. Pass the entire CBEST (must pass the writing portion with a minimum of 37 points); **or**
   b. Pass the CSET: Writing Skills Test (*Multiple Subject applicants only*); **or**
   c. Meet the graduation writing requirement (GWAR) at any CSU campus; **or**
   d. Successfully complete an upper-division advanced English composition course, with a "B" grade or better
5. Satisfy Basic Skills Competence. For more detailed information, visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl667.pdf). Example of ways to satisfy Basic Skills Competence include:
   a. Pass the California Basic Educational Skills Test (CBEST) – all sections must be taken and passed
   b. Pass the CSU Early Assessment Program (EAP) English and Math sections (tests completed in high school)
   c. Pass a basic skills examination from another state
6. Grade Point Average (GPA) of at least 2.67 overall or 2.75 in last 60 semester or 90 quarter units as evidenced from submitting official transcripts from every college/university attended
7. Complete Credential Prerequisite Courses for the Early Childhood Special Education (ECSE) program: CHDV 30, EDUC 170, EDUC 100A, EDUC 100B. Lists of equivalent coursework is located on the Teaching Credentials website.
8. Participate in the Mandatory Interview

Detailed descriptions of all admissions requirements are contained in the program's supplemental application directions. **NOTE**: Subject Matter Competency (SMC) is NOT required for ECSE applicants.

Applications Required

- **CSU Graduate School Application for the University:** Applicants not currently attending Sacramento State, Sacramento State graduating seniors, and Sacramento State students completing a master's degree or second bachelor's degree MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line: Cal State Apply
- **Teaching Credentials Program Supplemental Application:** All applicants must submit a supplemental program application. **Beginning in OCTOBER every year, the supplemental program applications with instructions/current requirements are available through the Teaching Credentials website.** Complete supplemental applications and all supporting documents must be submitted to Teaching Credentials by February. The exact submission deadline date is posted once applications are available on the website.

- **Certificate of Clearance (COC/Fingerprint Clearance):** ALL applicants must submit verification of having been issued a clearance by the CA Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

  EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential **OR** if you are applying for a Special Education credential program, verify a valid Multiple or Single Subject credential.

  ***NOTE*:** If you answered "YES" to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (http://www.ctc.ca.gov/educator-discipline/self-reporting.html) for the instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional paperwork/documentation to the CTC, the processing of your clearance application can take SIX MONTHS or longer. This means you may not be eligible to start the credential program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Additional Information

Verification of Bachelor's Degree

ALL applicants must obtain a bachelor's degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as "Degree(s) Awarded" with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher Credentialing (CTC), visit the CTC website (http://www.ctc.ca.gov/credentials/accreditation-bodies.html).

Foreign Transcript Evaluation

Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees, and other relevant documents prior to applying for a teaching credential program. This evaluation is required by the California Commission on Teacher Credentialing (CCTC). It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the **WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation**. For additional information on foreign transcript evaluations please visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl635.pdf).

Verification of completing the United States Constitution Requirement

California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a "C" or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement.

Additional Information for All Admitted Program Candidates

· **Continued Enrollment:** Continued enrollment in the MA in Teaching with Education Specialist Early Childhood Special Education (ECSE) Teaching Credential Program is contingent upon the candidates maintaining a GPA of 3.0 in all professional education courses. If incomplete grades or grades of 'D', 'F', and 'NC' (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee.

· **Delays:** Candidates who have to delay progress in the MA in Teaching with Education Specialist Early Childhood Special Education (ECSE) Teaching Credential Program will file a 'Program Delay Petition' in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Any student on academic probation is subject to automatic disqualification. Candidates must return and complete the program within the seven-year limit for graduate programs.

· **Appeal Process:** A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation. Appeals petitions and assistance are available in the Teaching Credentials Office.

Bilingual Authorization (BA)

The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all program candidates with oral and written fluency as well as cultural/historical knowledge of the target group (Spanish or Hmong). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator for an advising appointment to review your transcripts.

Program Requirements

Year 1		
First Semester		**Units**
Fall		
EDSP 119	Legal and Social Foundations of Special Education	3
EDSP 201	Developing Collaborative Partnerships with Families, Professionals, and Communities in ECSE	3
CHDV 150A	Early Literacy Development in First and Second Language	2
CHDV 150B	Early Literacy Development in First and Second Language Practicum	1
	Units	9
Second Semester		
Spring		
EDSP 209	Developing Augmentative & Alternative Communication Systems: Assessment and Intervention	3
EDSP 216	Understanding the Implications of Developmental Diversity in Children and Youth	3

EDS 217		3
Select one of the following options: [1]		3 - 10
EDSP 478	Field Experience I: Early Childhood Special Education	
or		
EDSP 476 & EDSP 477	Internship in ECSE: Infants & Toddlers Internship in ECSE: Preschool	
	Units	12-19
Year 2		
First Semester		
Summer		
EDSP 211	Curriculum, Intervention Strategies, and Environments in ECSE I: Infants & Toddlers	3
Select one of the following options: [1]		6 or 10
EDSP 474	Directed Field Experience in ESCE: Infants & Toddlers	
or		
EDSP 476	Internship in ECSE: Infants & Toddlers	
	Units	9-13
Second Semester		
Fall		
EDSP 210	Assessment and Evaluation in Early Childhood Special Education	3
EDSP 212	Curriculum, Intervention Strategies, and Environments in ECSE II: Preschool	3
EDSP 293	Strategies for Inclusive Classrooms: Education Specialist	3
Select one of the following options: [1]		3 or 10
EDSP 476	Internship in ECSE: Infants & Toddlers	
or		
EDSP 477	Internship in ECSE: Preschool	
or		
EDSP 479	Field Experience II: Early Childhood Special Education	
	Units	12-19
Third Semester		
Spring		
EDSP 218	Instructional Strategies: Low Incidence Disabilities	3
EDSP 234	Directed Fieldwork Seminar: Early Childhood Special Education	1
Select one of the following options: [1]		6 or 10
EDSP 475	Directed Field Experience in ECSE: Preschool	
or		
EDSP 477	Internship in ECSE: Preschool	
	Units	10-14
Year 3		
First Semester		
Summer		
EDSP 281	Critical Issues in Special Education Research and Practice ✎	6
	Units	6
Second Semester		
Fall		
EDSP 282	Methods in Research Design and Practice with Diverse Children, Youth, and Families	3
	Units	3
Third Semester		
Spring		
EDSP 283	Critical Analysis and Interpretation of Data within Diverse School and Community Contexts	3
EDSP 500	Master of Arts Thesis: Special Education	3
	Units	6
	Total Units	67-89

[1] Candidates choose either Field-based experience or Internship option. For those choosing Internship option, intern application procedures must be followed the semester prior (see Education Specialist Intern Guidelines on the Teaching Credentials website (https://www.csus.edu/college/education/teaching-credentials/)).

MA in Teaching with Education Specialist Mild/Moderate Teaching Credential

Program Description

The Education Specialist Instruction Credential authorizes the holder to provide instruction and special education support as well as conduct Educational Assessments related to student's access to the academic core curriculum. Support services can be provided according to the credential holder's area of specialization in the following settings:

- Resource rooms or services
- Special education settings
- General education settings
- Special schools
- Home/hospital settings
- State hospitals
- Development centers
- Correctional facilities
- Non-public, non-sectarian schools and agencies
- Alternative and non-traditional instructional
- Public school settings other than classroom

Programs offered lead to Certificates of Eligibility and/or the Preliminary Credential in three specialties:

- **Education Specialist:** Teaching Credential Program: Early Childhood Special Education
- **Education Specialist:** Mild/Moderate Disabilities Specialist (M/M) and
- **Education Specialist:** Moderate/Severe Disabilities Specialist (M/S).

All above specialties comply with regulations and standards as issued by SB2042 and AB1059 (English Language Authorization).

University- and California Commission on Teacher Credentialing- (CTC) approved program options also allow candidates to pursue the M/M or M/S specialty concurrently with the Multiple Subject Credential. Another approved program allows candidates to add an ECSE Certificate to existing Clear M/M, M/S or other California Special Education Specialist credentials. For additional information regarding the ECSE Certificate, please contact the ECSE Coordinator (current the program is on hiatus) or Teaching Credentials Office.

All credential programs undergo continual review and change; current requirements are available on the Teaching Credentials website (http://www.csus.edu/coe/academics/credentials/). All candidates are required to seek advisement regarding credential coursework and must complete a program advisement plan prior to the start of the program. Candidates must take prerequisites prior to the start of the program; candidates who continue without advisement or do not complete prerequisites prior to the start of the program may be disenrolled.

Special Education Internships

All Preliminary Education Specialist programs at Sacramento State have been approved by CCTC as internship programs. In order to be eligible for an Intern Education Specialist Credential, candidates must

- have been admitted and cleared all admission requirements for the credential program;
- have received the recommendation of a faculty member;
- have received an offer of employment from an employer; and
- be pursuing an internship with a district/school that has a written internship agreement (Memorandum of Understanding) with Sacramento State.

Only candidates in their final semester of the program can be considered for internships.

Note: Candidates working under an Education Specialist Internship Credential must concurrently fulfill the requirements of the credential program and the internship appointment.

Preliminary Teaching Credentials

As new regulations become mandated by the California Commission on Teacher Credentialing (CTC) and the California Department of Education, requirements for meeting subject matter competency and/or requirements for all preliminary credential programs will be changed to comply with the new requirements. The preliminary credential program is legislated according to the SB 2042 (Preliminary) Credential requirements. For further information, please contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639.

Preliminary Teaching Credential Requirements

Completion of the Preliminary Teaching Credential requires that the candidate:

- hold a baccalaureate or higher degree in a field other than professional education from a regionally accredited college or university;
- complete an approved program of teacher preparation, including student teaching;
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the elementary school level, complete either an approved subject matter program or pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the secondary school level, complete either an approved subject matter program in one of the core academic subject areas or pass an approved subject-matter examination in a core academic subject area (CSET: California Subject Examination for Teachers);
- for a Multiple Subject credential, pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for Single Subject, complete either an approved subject matter program or pass the approved subject-matter examination (CSET) in the appropriate teaching area;
- for Single Subject, complete an approved course in the teaching of reading;
- for Multiple Subject, complete an approved course in the teaching of reading and pass the Reading Instruction Competence Assessment (RICA) exam;
- pass a college-level course or examination on the U.S. Constitution; and
- demonstrate California Basic Educational Skills (see subsection below on options available).

Teaching Credentials offers a variety of pathways for completing the Preliminary Credential programs depending on the program:

- a one-year (two-semester) program;
- a three-semester program;
- a two-year (four-semester) program – Education Specialist programs only; part-time options are available which will increase time to program completion

Field experience and student teaching are integral parts of the program leading to Preliminary Credentials. In both the Multiple Subject and Single Subject Teacher Preparation programs, candidates move through the program in cohorts. Full-time Education Specialist candidates follow a tightly-sequenced series of courses. In all teacher preparation programs, candidates complete fieldwork in public schools. All candidates will have experience working with children or youth from a broad range of cultural, ethnic, economic and special learning needs backgrounds.

Program Admission Requirements at a Glance

1. Experiences related to working with children or youth
2. References (2)
3. Essay
4. Official Transcripts from every college/university attended
5. Writing Proficiency
6. Basic Skills Competence (i.e., pass the CBEST)
7. Subject Matter Competence (i.e., pass the CSET)
8. Grade Point Average (GPA) of at least 2.67 overall or 2.75 in last 60 semester or 90 quarter units

9. Complete Credential Prerequisite Courses: EDUC 170, EDUC 100A, EDUC 100B, HLSC 136, and KINS 172 (MS only – equivalent workshop can be taken during the program)
10. Complete the Mandatory Interview

Applications Required at a Glance

- Teaching credentials Supplemental Program Application
- CSU Graduate School Application
- Certificate of Clearance Application (and fingerprint clearance through CTC)

Admission Requirements – General Information Only

Experiences Related to Working with Children or Youth (paid and/or volunteer)

A minimum of 45 hours of experience (closer to 100+ hours if you want to be competitive) with diverse populations is required to be considered for program admission. Possible field experiences can include: classroom instructional aide, tutoring, afterschool program, Peace Corps, camp counseling, child/youth recreation programs, coaching, group-home counseling, church school teaching, etc. Your responses will be evaluated using the following criteria:

- ***Recency:*** Experience needs to be recent – at least within 1-2 years of the application period. You can list all experiences gained on the supplemental application, but regency is key.
- ***Settings:*** Majority of your experiences should be in appropriate settings/schools (**ideally public schools**) with culturally, linguistically, and socioeconomically diverse students of the age group (i.e., elementary school, high school, etc.) or population (i.e., special needs population) you plan to teach. You will list the diversity of your experiences on the supplemental application.
- ***Supervision:*** Has the verifiable experience been gained under supervision? If so, you will need to list names of your supervisors on the supplemental application.

References

Applicants submit two reference forms (included in the supplemental application). Letters of recommendation will not be accepted in lieu of reference forms. ***Only reference forms submitted in sealed envelopes will be accepted.*** It is recommended that one of the references be from a person who has observed the applicant's academic competence (current or former instructor) and the other reference from a person who has observed the applicant working with children or youth. ***NOTE*:** References from family members will not be accepted.

Essay

Discuss a critical, current issue in teaching/education and the relationship of this issue to your motivation to become a teacher in a typed, two-page, double-spaced essay. ***NOTE:*** This prompt is subject to change.

Transcripts

Applicants must provide ***official, sealed transcripts*** from every community college/college/university attended, even if only ONE class was completed. ***Sacramento State students and Sacramento State graduates are exempt, unless coursework was completed at another college after you graduated***.

Writing Proficiency

Satisfying writing proficiency is a program admission requirement. This requirement may be met in one of the following ways:

1. Pass the entire CBEST (must pass the writing portion with a minimum of 37 points); **or**
2. Pass the CSET: Writing Skills Test (*Multiple Subject applicants only*); **or**
3. Meet the graduation writing requirement (GWAR) at any CSU campus; **or**
4. Successfully complete an upper-division advanced English composition course, with a "B" grade or better.

Basic Skills Requirement (BSR)

Satisfying the basic skills requirement is a program admission requirement. Select one of the following options to meet this requirement. For detailed information visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl667.pdf).

1. Pass the California Basic Educational Skills Test (CBEST) – all sections must be taken and passed
2. Pass the CSU Early Assessment Program (EAP)English and Math sections(tests completed in high school)
3. Pass the CSU English Placement Test (EPT) and the Entry Level Math (ELM) Test (For more information, visit the Testing Center website (http://www.csus.edu/testing/))
4. Pass the CSET: Writing Skills Test (available to Multiple Subject applicants only)
5. Pass a basic skills examination from another state

Register online at the CTC Exams website (http://www.ctcexams.nesinc.com). **Take exams no later than February for FALL admission consideration.**

Subject Matter Competence (SMC)

Applicants are required to meet SMC to be considered for admission:

Special Education: Applicants holding one of the following types of credentials, may have met the subject matter competency requirement: five-year preliminary, clear, professional clear, or life credential in the following authorizations: Multiple Subject, Single Subject, Standard Elementary, Standard Secondary, General Elementary, or General Secondary. *Applicants who do not hold one of the types of credentials listed above* can meet SMC through one of the following options:

- CSET for Multiple Subjects option or
- Single Subject option (see requirements below)

Multiple Subject: All applicants must satisfy SMC by passing the California Subject Examinations for Teachers (CSET): Multiple Subjects subtests I, II, and III. ***NOTE*:** CSET passing scores on all three (3) subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration.*** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).

Single Subject: Applicants may satisfy SMC in ONE of two ways, either (1) by examination **or** (2) by completing an approved undergraduate program of subject matter coursework.

1. **Examination(s)** Take and pass the California Subject Examinations for Teachers (CSET) in your subject area. Be sure to take all required subtests in your teaching area. ***NOTE*:** CSET passing scores on all subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration*.** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).
2. **Coursework** Complete a California Commission-approved undergraduate academic subject matter preparation (SMP) program from an accredited California college/university.

SMP Coursework Options

- **The Sacramento State Subject Matter Program (SMP)** is a California approved baccalaureate program that prepares individuals for teaching. Sac State students completing a SMP must meet with an approved advisor as soon as possible in order to complete the Subject Matter Competence Verification Form. For a listing of faculty advisors visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/smp-advisor-20160926.pdf).
- **Non-Sacramento State applicants** who completed an approved SMP on a California campus other than Sacramento State must submit verification of completion of the SMP on letterhead stationery of your school, signed by the approved evaluator, instead of using the Subject Matter Competence Verification Form. Check with your College's Credentials office for the approved evaluator.

Grade Point Average (GPA) Required

In order to be considered for admission to a Teaching Credential Program, applicants must have attained a cumulative GPA of at least 2.67 in all baccalaureate and post-baccalaureate course work (if completed) **OR** a GPA of at least 2.75 in the last 60 semester or 90 quarter units attempted.

Pre-requisite Credential Courses – to be completed PRIOR to starting the credential programs:

Code	Title	Units
EDUC 100A	Educating Students with Disabilities in Inclusive Settings	2
EDUC 100B	Educating Students with Disabilities in Inclusive Settings Lab	1
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
HLSC 136		2
KINS 172	Movement Education [1]	3

[1] For MS only. If admitted, an equivalent PE/Health methods workshop can be completed during the credential program.

List of equivalent courses, visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/cred-equivalencies-prereqs-20160712.pdf).

Interview

All applicants must participate in a one-hour group interview as part of the screening process. After the supplemental program application is received by the Department, applicants are notified by email of the interview process and dates.

Applications Required

CSU Graduate School Application for the University:

Applicants not currently attending Sacramento State, Sacramento State graduating seniors, and Sacramento State students completing a master's degree or second bachelor's degree MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line.

Transcripts*:** Applicants who did not graduate from Sacramento State must submit ***one (1) set of sealed, official transcripts from ALL community colleges/colleges/universities attended, even if only ONE class was completed. If you have questions about the University graduate school application process, please contact the OGS at (916) 278-6470.

***Foreign degrees*:** Transcripts from applicants with degrees from outside of the United States must review the information/instructions on the Office of Graduate Studies website (http://www.csus.edu/gradstudies/FutureStudents/ApplicantsWithForeignDocuments/).

NOTE: Foreign transcripts and other supporting documents are usually due much earlier than University and department application deadlines.

Teaching Credentials Program Supplemental Application:

All applicants must submit a supplemental program application packet that includes: a list of experiences related to teaching/working with children/youth, an essay, two completed & sealed reference forms, writing proficiency verification, subject matter competency verification, and basic skills requirement verification (CBEST or other approved verification). **Beginning in OCTOBER every year, the supplemental program applications with instructions/current requirements are available on the** College of Education website **(**http://www.csus.edu/coe/apply/credentials.html**)**. Credential programs only begin in FALL semesters. Complete supplemental applications and all supporting documents must be submitted to the Teaching Credentials by February. The exact submission deadline date is posted once applications are available on the website.

Certificate of Clearance (COC/Fingerprint Clearance):

ALL applicants must submit verification of having been issued a clearance by the CA Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

- Applicants who *have already been issued* a clearance/permit/credential must submit a printout from the CTC website (http://www.ctc.ca.gov) showing the issuance date of a valid CA 30-day emergency permit, a valid CA Child Development Associate/Center permit, a valid CA credential, or a valid Certificate of Clearance.
- Applicants who *have NOT been issued* a clearance/permit/credential must apply for the Certificate of Clearance on the CTC website as well as complete the Live Scan fingerprinting process. Tips for completing the online application and Live Scan process can be found on the CTC website (http://www.ctc.ca.gov/credentials/online-services/pdf/web-app-tips.pdf). Proof of applying for the clearance and completing the Live Scan process MUST be submitted with the supplemental credential program application packet. Include as proof the following: a copy of the 'Payment Receipt' page from the on-line COC application AND a copy of your completed and scanned Live Scan form.
- Once your clearance is issued, you will receive an email from the CTC. Print this email and submit it with your supplemental program application packet. Or, if the email is received after you have

submitted your application, submit the email directly to the Teaching Credentials Department in Eureka Hall - 401.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential **OR** if you are applying for a Special Education credential program, verify a valid Multiple or Single Subject credential.

***NOTE*:** If you answered "YES" to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (http://www.ctc.ca.gov/educator-discipline/self-reporting.html) for the instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional paperwork/documentation to the CTC, the processing of your clearance application can take six months or longer. This means you may not be eligible to start the credential program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Additional Information

Verification of Bachelor's Degree

ALL applicants must obtain a bachelor's degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as "Degree(s) Awarded" with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher Credentialing (CTC), visit the CTC website (http://www.ctc.ca.gov/credentials/accreditation-bodies.html).

Foreign Transcript Evaluation

Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees[1], and other relevant documents prior to applying for a teaching credential program. This evaluation is required by the California Commission on Teacher Credentialing (CCTC). It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the **WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation**. For additional information on foreign transcript evaluations please visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl635.pdf).

[1] The bachelor's degree requirement for California credentials refers to the equivalent of a four-year (or more) college-level program.

Verification of completing the United States Constitution Requirement

California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a "C" or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement.

Additional Information for All Admitted Credential Candidates

- Continued Enrollment**: Continued enrollment in a Preliminary Credential Program is contingent upon the candidates maintaining a GPA of 3.0 in all professional education courses**. If incomplete grades or grades of 'D', 'F', and 'NC' (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee.
- Delays**:** Candidates who have to delay progress in a Preliminary Credential Program file a 'Program Delay Petition' in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Any student on academic probation is subject to automatic disqualification as a Credential candidate.

Appeal Process: A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation. Appeals petitions and assistance are available in the Teaching Credentials Office

Bilingual Authorization (BA)

The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all credential candidates with oral and written fluency as well as cultural/historical knowledge of the target group (Spanish or Hmong). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator, Karina Figueroa-Ramirez (figueroaramirez@csus.edu), for an advising appointment to review your transcripts.

Program Requirements

Year 1		
First Semester		**Units**
EDSP 119	Legal and Social Foundations of Special Education	3
EDSP 220	Language and Literacy in Inclusive Classrooms I	3
EDSP 229	Curriculum and Instruction Strategies for Students with Mild/Moderate Disabilities	3
EDSP 232	Effective Communication and Collaborative Partnerships	2
	Units	11
Second Semester		
EDSP 221	Language and Literacy in Inclusive Classrooms II	3
EDSP 471	Mild/Moderate: Field Experience	6
EDSP 293	Strategies for Inclusive Classrooms: Education Specialist	3
EDMS 314	Mathematics Curriculum and Instruction for the Diverse K-8 Classroom	3
	Units	15

Year 2		
First Semester		
EDSP 230	Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges	3
EDSP 292	Teaching English Learners with Disabilities	3
	Units	6
Second Semester		
EDSP 225A	Assessment and Evaluation for Students with Mild/Moderate Disabilities	2
EDSP 225B	Assessment and Evaluation for Students with Mild/Moderate Disabilities Lab	1
EDSP 237	Transition Strategies for Students with Mild/Moderate Disabilities	3
EDSP 233	Final Student Teaching Seminar: Mild/Moderate	1
EDSP 472 or EDSP 473	Mild/Moderate: Student Teaching or Mild/Moderate: Intern Teaching	8
	Units	15
Third Semester		
Summer		
EDSP 281	Critical Issues in Special Education Research and Practice ✎	6
	Units	6
Year 3		
First Semester		
EDSP 282	Methods in Research Design and Practice with Diverse Children, Youth, and Families	3
	Units	3
Second Semester		
EDSP 283	Critical Analysis and Interpretation of Data within Diverse School and Community Contexts	3
EDSP 500	Master of Arts Thesis: Special Education	3
	Units	6
	Total Units	62

MA in Teaching with Education Specialist Mild/Moderate Teaching Credential (Multiple Subject)

Program Description

The MA in Teaching with Education Specialist Mild to Moderate Teaching Credential with Multiple Subject Teaching Credential program blends a teacher preparation program with a Master of Arts in Teaching (MAT). The Multiple Subject Teaching Credential authorizes the holder to teach all subjects in a self-contained classroom, such as the classrooms in most elementary schools.

This credential embeds the English Learner Authorization (ELA), which prepares candidates to work with second language learners. The teacher preparation coursework focuses on preparing effective teachers for urban classrooms. Becoming an effective teacher for an urban setting, including a foundation in social justice and equity, is the focus of all activities, tasks and learning. The candidates complete a program that requires full-time student status, with field experience and student teaching requirements in Sacramento Area districts as well as full-time coursework requirements.

Upon completion of the Multiple Subject Teaching Credential coursework, program candidates will complete an additional sequence of five MAT courses. Throughout the MAT program candidates will learn how to critically examine the sociocultural and sociopolitical contexts related to the broad fields of educational research and schooling. Candidates will be expected to apply such analytical skills to develop and implement standards-based curriculum in diverse settings using best instructional and inclusive practices that positively impact the learning of all students including English Learners and students with disabilities. Candidates will also create an original Teacher Action Research Inquiry Project using practice-based methods in diverse educational settings. The materials and associated activities presented in the MAT coursework are highly integrated to support students with successful completion of the Master of Arts in Teaching degree at the end of the program.

Preliminary Teaching Credentials

As new regulations become mandated by the California Commission on Teacher Credentialing (CTC) and the California Department of Education, requirements for meeting subject matter competency and/or requirements for all preliminary credential programs will be changed to comply with the new requirements. The preliminary credential program is legislated according to the SB 2042 (Preliminary) Credential requirements. For further information, please contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639.

Program Admission Requirements

1. Minimum of 45 hours of experiences related to working with children or youth
2. Submit two program reference forms: one from a person who has observed the applicant's academic competence (current or former instructor) and the other from a person who has observed the applicant working with children or youth. ***NOTE*:** References from family members will not be accepted
3. Submit a graduate writing sample in the form of an essay addressing a prompt related to the program's foundation in social justice and equity tied to a current issue in education. The essay prompt will change. Refer to the supplemental application for the current essay prompt
4. Satisfy writing proficiency in one of the following ways:
   a. Pass the entire CBEST (must pass the writing portion with a minimum of 37 points);
   b. Pass the CSET: Writing Skills Test (*Multiple Subject applicants only*); **or**
   c. Meet the graduation writing requirement (GWAR) at any CSU campus; **or**
   d. Successfully complete an upper-division advanced English composition course, with a "B" grade or better
5. Satisfy Basic Skills Competence. For more detailed information, visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl667.pdf). Example of ways to satisfy Basic Skills Competence include:
   a. Pass the California Basic Educational Skills Test (CBEST) – all sections must be taken and passed

   b. Pass the CSU Early Assessment Program (EAP) English and Math sections (tests completed in high school)
   c. Pass a basic skills examination from another state
6. Satisfy Subject Matter Competence by taking and passing all subtests of the Elementary CSET or complete a subject matter program
7. Grade Point Average (GPA) of at least 2.67 overall or 2.75 in last 60 semester or 90 quarter units as evidenced from official transcripts from every college/university attended
8. Complete Credential Prerequisite Courses : EDUC 170, EDUC 100A, EDUC 100B, HLSC 136, and KINS 172 (equivalent workshop can be taken during the program). Lists of equivalent coursework is located on the Teaching Credentials website.
9. Participate in the Mandatory Interview

Detailed descriptions of all admissions requirements are contained in the program's supplemental application directions.

Applications Required

CSU Graduate School Application for the University:

Applicants not currently attending Sacramento State, Sacramento State graduating seniors, and Sacramento State students completing a master's degree or second bachelor's degree MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line: Cal State Apply

Teaching Credentials Program Supplemental Application:

All applicants must submit a supplemental program application. **Beginning in OCTOBER every year, the supplemental program applications with instructions/current requirements are available through the Teaching Credentials website.** Complete supplemental applications and all supporting documents must be submitted to Teaching Credentials by February. The exact submission deadline date is posted once applications are available on the website.

Certificate of Clearance (COC/Fingerprint Clearance):

ALL applicants must submit verification of having been issued a clearance by the CA Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential **OR** if you are applying for a Special Education credential program, verify a valid Multiple or Single Subject credential.

***NOTE*:** If you answered "YES" to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (http://www.ctc.ca.gov/educator-discipline/self-reporting.html) for the instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional paperwork/documentation to the CTC, the processing of your clearance application can take SIX MONTHS or longer. This means you may not be eligible to start the credential program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Additional Information

Verification of Bachelor's Degree

ALL applicants must obtain a bachelor's degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as "Degree(s) Awarded" with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher Credentialing (CTC), visit the CTC website (http://www.ctc.ca.gov/credentials/accreditation-bodies.html).

Foreign Transcript Evaluation

Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees, and other relevant documents prior to applying for a teaching credential program. This evaluation is required by the California Commission on Teacher Credentialing (CCTC). It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the **WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation**. For additional information on foreign transcript evaluations please visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl635.pdf).

Verification of completing the United States Constitution Requirement

California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a "C" or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement.

Additional Information for All Admitted Program Candidates

- **Continued Enrollment:** Continued enrollment in the MA in Teaching with Multiple Subject Teaching Credential Program is contingent upon the candidates maintaining a GPA of 3.0 in all professional education courses. If incomplete grades or grades of 'D', 'F', and 'NC' (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee.
- **Delays:** Candidates who have to delay progress in the MA in Teaching with Multiple Subject Teaching Credential Program will file a 'Program Delay Petition' in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Any student on academic probation is subject to automatic disqualification. Candidates must return and complete the program within the seven-year limit for graduate programs.
- **Appeal Process:** A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation. Appeals petitions and assistance are available in the Teaching Credentials Office

Bilingual Authorization (BA)

The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited

English proficiency. This option is available concurrently for all program candidates with oral and written fluency as well as cultural/historical knowledge of the target group (Spanish or Hmong). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator for an advising appointment to review your transcripts.

Program Requirements

Year 1		
First Semester		**Units**
EDSP 119	Legal and Social Foundations of Special Education	3
EDSP 220	Language and Literacy in Inclusive Classrooms I	3
EDSP 232	Effective Communication and Collaborative Partnerships	2
EDSP 229	Curriculum and Instruction Strategies for Students with Mild/Moderate Disabilities	3
	Units	11
Second Semester		
EDSP 221	Language and Literacy in Inclusive Classrooms II	3
EDSP 293	Strategies for Inclusive Classrooms: Education Specialist	3
EDMS 314	Mathematics Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 316	Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDSP 420A or EDSP 471	Multiple Subject Field Experience or Mild/Moderate: Field Experience	6
	Units	18
Year 2		
First Semester		
EDSP 230	Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges	3
EDSP 292	Teaching English Learners with Disabilities	3
EDMS 315	History-Social Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDSP 420B	Multiple Subject Student Teaching	8
EDMS 232	Assessment Center Laboratory for Multiple Subject Candidates	2
	Units	19
Second Semester		
EDSP 225A	Assessment and Evaluation for Students with Mild/Moderate Disabilities	2
EDSP 225B	Assessment and Evaluation for Students with Mild/Moderate Disabilities Lab	1
EDSP 237	Transition Strategies for Students with Mild/Moderate Disabilities	3
EDSP 233	Final Student Teaching Seminar: Mild/Moderate	1
EDSP 472 or EDSP 473	Mild/Moderate: Student Teaching or Mild/Moderate: Intern Teaching	8
EDMS 317	Visual and Performing Arts Methods for the Diverse K-8 Classroom	1
	Units	16
Third Semester		
Summer		
EDSP 281	Critical Issues in Special Education Research and Practice	6
	Units	6
Year 3		
First Semester		
EDSP 282	Methods in Research Design and Practice with Diverse Children, Youth, and Families	3
	Units	3
Second Semester		
EDSP 500	Master of Arts Thesis: Special Education	3
EDSP 283	Critical Analysis and Interpretation of Data within Diverse School and Community Contexts	3
	Units	6
	Total Units	79

MA in Teaching with Education Specialist Moderate/Severe Teaching Credential

Program Description

The MA in Teaching with Education Specialist Credential Moderate/Severe Credential blends a teacher preparation program with a Master of Arts in Teaching. The MAT program focuses on inquiry-based education which includes hands-on instruction with problem-based learning and issues-centered curriculum and a focus on reflection during the teaching and research process. The program foundation rests in social justice and equity in education for all children and youth, including those with disabilities, and their families

Upon completion of the Moderate/Severe Credential coursework, program candidates will complete an additional sequence of three Master of Arts in Teaching (MAT) courses) for a total of 15 units. Throughout the MAT program, candidates will learn how to critically examine evidence-based practices, policy issues, and current research on teaching and learning in the field of special education. Candidates will be expected to apply analytical skills to develop and implement standards-based curriculum in diverse settings using best instructional and inclusive practices that positively impact the learning of all students, including English Learners and children and youth with disabilities. Candidates also will conduct original teacher action research using practice-based methods in diverse educational settings. The materials and associated activities presented in the MAT coursework are highly integrated to support candidates with successful completion of the Master of Arts in Teaching degree at the end of the program.

Preliminary Teaching Credentials

As new regulations become mandated by the California Commission on Teacher Credentialing (CTC) and the California Department of Education, requirements for meeting subject matter competency and/or requirements for all preliminary credential programs will be changed to comply with the new requirements. The preliminary credential program is legislated according to the SB 2042 (Preliminary) Credential requirements. For further information, please contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639.

Program Admission Requirements

1. Minimum of 45 hours of experiences related to working with children or youth

2. Submit two program reference forms: one from a person who has observed the applicant's academic competence (current or former instructor) and the other from a person who has observed the applicant working with children or youth. ***NOTE*:** References from family members will not be accepted

3. Submit a graduate writing sample in the form of an essay addressing a prompt related to the program's foundation in social justice and equity tied to a current issue in education. The essay prompt will change. Refer to the supplemental application for the current essay prompt

4. Satisfy writing proficiency in one of the following ways:

- Pass the entire CBEST (must pass the writing portion with a minimum of 37 points); **or**
- Pass the CSET: Writing Skills Test (*Multiple Subject applicants only*); **or**
- Meet the graduation writing requirement (GWAR) at any CSU campus; **or**
- Successfully complete an upper-division advanced English composition course, with a "B" grade or better

5. Satisfy Basic Skills Competence. For more detailed information, visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl667.pdf). Example of ways to satisfy Basic Skills Competence include:

- Pass the California Basic Educational Skills Test (CBEST) – all sections must be taken and passed
- Pass the CSU Early Assessment Program (EAP) English and Math sections (tests completed in high school)
- Pass a basic skills examination from another state

6. Satisfy Subject Matter Competence by taking and passing all subtests of the Elementary CSET or complete a subject matter program

7. Grade Point Average (GPA) of at least 2.67 overall or 2.75 in last 60 semester or 90 quarter units as evidenced from official transcripts from every college/university attended

8. Complete Credential Prerequisite
Courses : EDUC 170, EDUC 100A, EDUC 100B. Lists of equivalent coursework is located on the Teaching Credentials website.

9. Participate in the Mandatory Interview

Detailed descriptions of all admissions requirements are contained in the program's supplemental application directions.

Applications Required

CSU Graduate School Application for the University:

Applicants not currently attending Sacramento State, Sacramento State graduating seniors, and Sacramento State students completing a master's degree or second bachelor's degree MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line: Cal State Apply

Teaching Credentials Program Supplemental Application:

All applicants must submit a supplemental program application. **Beginning in OCTOBER every year, the supplemental program applications with instructions/current requirements are available through the Teaching Credentials website.** Complete supplemental applications and all supporting documents must be submitted to Teaching Credentials by February. The exact submission deadline date is posted once applications are available on the website.

Certificate of Clearance (COC/Fingerprint Clearance):

ALL applicants must submit verification of having been issued a clearance by the CA Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential **OR** if you are applying for a Special Education credential program, verify a valid Multiple or Single Subject credential.

***NOTE*:** If you answered "YES" to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (http://www.ctc.ca.gov/educator-discipline/self-reporting.html) for the instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional paperwork/documentation to the CTC, the processing of your clearance application can take SIX MONTHS or longer. This means you may not be eligible to start the credential program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Additional Information

Verification of Bachelor's Degree

ALL applicants must obtain a bachelor's degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as "Degree(s) Awarded" with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher Credentialing (CTC), visit the CTC website (http://www.ctc.ca.gov/credentials/accreditation-bodies.html).

Foreign Transcript Evaluation

Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees, and other relevant documents prior to applying for a teaching credential program. This evaluation is required by the California Commission on Teacher Credentialing (CCTC). It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of

Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the **WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation**. For additional information on foreign transcript evaluations please visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl635.pdf).

Verification of completing the United States Constitution Requirement

California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a "C" or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement.

Additional Information for All Admitted Program Candidates

· **Continued Enrollment:** Continued enrollment in the MA in Teaching with Education Specialist Moderate/Severe Teaching Credential Program is contingent upon the candidates maintaining a GPA of 3.0 in all professional education courses. If incomplete grades or grades of 'D', 'F', and 'NC' (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee.

· **Delays:** Candidates who have to delay progress in the MA in Teaching with Education Specialist Moderate/Severe Teaching Credential Program will file a 'Program Delay Petition' in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Any student on academic probation is subject to automatic disqualification. Candidates must return and complete the program within the seven-year limit for graduate programs.

· **Appeal Process:** A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation. Appeals petitions and assistance are available in the Teaching Credentials Office

Bilingual Authorization (BA)

The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all program candidates with oral and written fluency as well as cultural/historical knowledge of the target group (Spanish or Hmong). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator for an advising appointment to review your transcripts.

Program Requirements: (If new courses are being created as part of a new program, it will be useful to propose courses first.)

Year 1		
First Semester		**Units**
Fall		
EDSP 119	Legal and Social Foundations of Special Education	3
EDSP 206	Collaborative Program Planning with Families, Professionals, and Communities	3
EDSP 220	Language and Literacy in Inclusive Classrooms I	3
EDSP 235	Field Seminar in Program and Instruction: Mod/Severe Disabilities	2
	Units	11
Second Semester		
Spring		
EDSP 209	Developing Augmentative & Alternative Communication Systems: Assessment and Intervention	3
EDSP 216	Understanding the Implications of Developmental Diversity in Children and Youth	3
EDS 217		3
EDSP 221	Language and Literacy in Inclusive Classrooms II	3
EDSP 413	Field Experience I: Moderate/Severe Disabilities	3
	Units	15
Year 2		
First Semester		
Fall		
EDSP 205	Methods in Access and Inclusion in the Core Curriculum: Mod/Severe Disabilities	2
EDSP 207	Secondary/Post-Secondary Methods and Transition Planning: Moderate/Severe Disabilities	2
EDSP 208	Evidenced-based Assessment and Instruction: Mod/Severe Disabilities	2
EDSP 292	Teaching English Learners with Disabilities	3
EDSP 414	Field Experience II: Moderate/Severe	3
	Units	12
Second Semester		
Spring		
EDSP 218	Instructional Strategies: Low Incidence Disabilities	3
EDSP 236	Student Teaching Seminar: Moderate/Severe Disabilities	1
EDSP 293	Strategies for Inclusive Classrooms: Education Specialist	3
EDSP 415	Student Teaching: Moderate/Severe	5
	Units	12
Third Semester		
Summer		
EDSP 281	Critical Issues in Special Education Research and Practice	6
	Units	6
Year 3		
First Semester		
Fall		
EDSP 282	Methods in Research Design and Practice with Diverse Children, Youth, and Families	3
	Units	3
Second Semester		
Spring		

EDSP 283	Critical Analysis and Interpretation of Data within Diverse School and Community Contexts	3
EDSP 500	Master of Arts Thesis: Special Education	3
	Units	6
	Total Units	65

MA in Teaching with Education Specialist Moderate/Severe Teaching Credential (Multiple Subject)

Program Description

The MA in Teaching with Education Specialist Credential Moderate/Severe Credential with a concentration in Multiple Subject blends a teacher preparation program with a Master of Arts in Teaching. The MAT program focuses on inquiry-based education which includes hands-on instruction with problem-based learning and issues-centered curriculum and a focus on reflection during the teaching and research process. The program foundation rests in social justice and equity in education for all children and youth, including those with disabilities, and their families

Upon completion of the Moderate/Severe and Multiple Subjects Credential coursework, program candidates will complete an additional sequence of three Master of Arts in Teaching (MAT) courses) for a total of 15 units. Throughout the MAT program, candidates will learn how to critically examine evidence-based practices, policy issues, and current research on teaching and learning in the field of special education. Candidates will be expected to apply analytical skills to develop and implement standards-based curriculum in diverse settings using best instructional and inclusive practices that positively impact the learning of all students, including English Learners and children and youth with disabilities. Candidates also will conduct original teacher action research using practice-based methods in diverse educational settings. The materials and associated activities presented in the MAT coursework are highly integrated to support candidates with successful completion of the Master of Arts in Teaching degree at the end of the program.

Preliminary Teaching Credentials

As new regulations become mandated by the California Commission on Teacher Credentialing (CTC) and the California Department of Education, requirements for meeting subject matter competency and/or requirements for all preliminary credential programs will be changed to comply with the new requirements. The preliminary credential program is legislated according to the SB 2042 (Preliminary) Credential requirements. For further information, please contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639.

Program Admission Requirements

1. Minimum of 45 hours of experiences related to working with children or youth

2. Submit two program reference forms: one from a person who has observed the applicant's academic competence (current or former instructor) and the other from a person who has observed the applicant working with children or youth. ***NOTE*:** References from family members will not be accepted

3. Submit a graduate writing sample in the form of an essay addressing a prompt related to the program's foundation in social justice and equity tied to a current issue in education. The essay prompt will change. Refer to the supplemental application for the current essay prompt

4. Satisfy writing proficiency in one of the following ways:

- Pass the entire CBEST (must pass the writing portion with a minimum of 37 points); **or**
- Pass the CSET: Writing Skills Test (*Multiple Subject applicants only*); **or**
- Meet the graduation writing requirement (GWAR) at any CSU campus; **or**
- Successfully complete an upper-division advanced English composition course, with a "B" grade or better

5. Satisfy Basic Skills Competence. For more detailed information, visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl667.pdf). Example of ways to satisfy Basic Skills Competence include:

- Pass the California Basic Educational Skills Test (CBEST) – all sections must be taken and passed
- Pass the CSU Early Assessment Program (EAP) English and Math sections (tests completed in high school)
- Pass a basic skills examination from another state

6. Satisfy Subject Matter Competence by taking and passing all subtests of the Elementary CSET or complete a subject matter program

7. Grade Point Average (GPA) of at least 2.67 overall or 2.75 in last 60 semester or 90 quarter units as evidenced from official transcripts from every college/university attended

8. Complete Credential Prerequisite
Courses : EDUC 170, EDUC 100A, EDUC 100B. Lists of equivalent coursework is located on the Teaching Credentials website.

9. Participate in the Mandatory Interview

Detailed descriptions of all admissions requirements are contained in the program's supplemental application directions.

Applications Required

CSU Graduate School Application for the University:

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Additional Information for All Admitted Program Candidates

- **Continued Enrollment:** Continued enrollment in the MA in Teaching with the Education Specialist Moderate/Severe and Multiple Subject Teaching Credential Program is contingent upon the candidates maintaining a GPA of 3.0 in all professional education courses. If incomplete grades or grades of 'D', 'F', and 'NC' (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee.

- **Delays:** Candidates who have to delay progress in the MA in Teaching with Education Specialist Moderate/Severe Credential and Multiple Subject Teaching Credential Program will file a 'Program Delay Petition' in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Any student on academic probation is subject to automatic disqualification. Candidates must return and complete the program within the seven-year limit for graduate programs.

- **Appeal Process:** A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation. Appeals petitions and assistance are available in the Teaching Credentials Office

Bilingual Authorization (BA)

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Year 1		
First Semester		**Units**
Fall		
EDSP 119	Legal and Social Foundations of Special Education	3
EDSP 206	Collaborative Program Planning with Families, Professionals, and Communities	3
EDSP 220	Language and Literacy in Inclusive Classrooms I	3
EDSP 235	Field Seminar in Program and Instruction: Mod/Severe Disabilities	2
	Units	11
Second Semester		
Spring		
EDSP 209	Developing Augmentative & Alternative Communication Systems: Assessment and Intervention	3
EDSP 216	Understanding the Implications of Developmental Diversity in Children and Youth	3
EDS 217		3
EDSP 221	Language and Literacy in Inclusive Classrooms II	3
EDMS 314	Mathematics Curriculum and Instruction for the Diverse K-8 Classroom	3
EDSP 413	Field Experience I: Moderate/Severe Disabilities	3
	Units	18

Year 2		
First Semester		
Fall		
EDSP 205	Methods in Access and Inclusion in the Core Curriculum: Mod/Severe Disabilities	2
EDSP 207	Secondary/Post-Secondary Methods and Transition Planning: Moderate/Severe Disabilities	2
EDSP 208	Evidenced-based Assessment and Instruction: Mod/Severe Disabilities	2
EDSP 292	Teaching English Learners with Disabilities	3
EDMS 315	History-Social Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDSP 420A	Multiple Subject Field Experience	4
	Units	16
Second Semester		
Spring		
EDSP 218	Instructional Strategies: Low Incidence Disabilities	3
EDSP 293	Strategies for Inclusive Classrooms: Education Specialist	3
EDMS 316	Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDSP 420B	Multiple Subject Student Teaching	5
EDMS 332	A Course number change proposal has been submitted to change this to EDMS 232	2
	Units	16
Year 3		
First Semester		
Fall		
EDSP 236	Student Teaching Seminar: Moderate/Severe Disabilities	1
EDSP 421	Intern Teaching: Moderate/ Severe Disabilities	5
	Units	6
Second Semester		
Summer		
EDSP 281	Critical Issues in Special Education Research and Practice	6
	Units	6
Year 4		
First Semester		
Fall		
EDSP 282	Methods in Research Design and Practice with Diverse Children, Youth, and Families	3
	Units	3
Second Semester		
Spring		
EDSP 283	Critical Analysis and Interpretation of Data within Diverse School and Community Contexts	3
EDSP 500	Master of Arts Thesis: Special Education	3
	Units	6
	Total Units	82

MA in Teaching with Multiple Subject Teaching Credential

Program Description

The MA in Teaching with Multiple Subject Teaching Credential program blends a teacher preparation program with a Master of Arts in Teaching (MAT). The Multiple Subject Teaching Credential authorizes the holder to teach all subjects in a self-contained classroom, such as the classrooms in most elementary schools. This credential embeds the English Learner Authorization (ELA), which prepares candidates to work with second language learners.

The teacher preparation coursework focuses on preparing effective teachers for urban classrooms. Becoming an effective teacher for an urban setting, including a foundation in social justice and equity, is the focus of all activities, tasks and learning. The candidates complete a program that requires full-time student status, with field experience and student teaching requirements in Sacramento Area districts as well as full-time coursework requirements. Upon completion of the Multiple Subject Teaching Credential coursework, program candidates will complete an additional sequence of five Master of Arts in Teaching (MAT) courses.

Throughout the MAT program candidates will learn how to critically examine the sociocultural and sociopolitical contexts related to the broad fields of educational research and schooling. Candidates will be expected to apply such analytical skills to develop and implement standards-based curriculum in diverse settings using best instructional and inclusive practices that positively impact the learning of all students including English Learners and students with disabilities. Candidates will also create an original Teacher Action Research Inquiry Project using practice-based methods in diverse educational settings. The materials and associated activities presented in the MAT coursework are highly integrated to support students with successful completion of the Master of Arts in Teaching degree at the end of the program.

Preliminary Teaching Credentials

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Program Admission Requirements

1. Minimum of 45 hours of experiences related to working with children or youth
2. Submit two program reference forms: one from a person who has observed the applicant's academic competence (current or former instructor) and the other from a person who has observed the applicant working with children or youth. ***NOTE*:** References from family members will not be accepted.

3. Submit a graduate writing sample in the form of an essay addressing a prompt related to the program's foundation in social justice and equity tied to a current issue in education. The essay prompt will change. Refer to the supplemental application for the current essay prompt
4. Satisfy writing proficiency in one of the following ways:
   a. Pass the entire CBEST (must pass the writing portion with a minimum of 37 points); **or**
   b. Pass the CSET: Writing Skills Test (*Multiple Subject applicants only*); or
   c. Meet the graduation writing requirement (GWAR) at any CSU campus; or
   d. Successfully complete an upper-division advanced English composition course, with a "B" grade or better
5. Satisfy Basic Skills Competence. For more detailed information, visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl667.pdf). Example of ways to satisfy Basic Skills Competence include:
   a. Pass the California Basic Educational Skills Test (CBEST) – all sections must be taken and passed
   b. Pass the CSU Early Assessment Program (EAP) English and Math sections (tests completed in high school)
   c. Pass a basic skills examination from another state
6. Satisfy Subject Matter Competence by taking and passing all subtests of the Elementary CSET or complete a subject matter program
7. Grade Point Average (GPA) of at least 2.67 overall or 2.75 in last 60 semester or 90 quarter units as evidenced from official transcripts from every college/university attended
8. Complete Credential Prerequisite Courses: EDUC 170, EDUC 100A, EDUC 100B, HLSC 136, and KINS 172 (equivalent workshop can be taken during the program). Lists of equivalent coursework is located on the Teaching Credentials website.
9. Participate in the Mandatory Interview

Detailed descriptions of all admissions requirements are contained in the program's supplemental application directions.

Applications Required

CSU Graduate School Application for the University:

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***NOTE*:** If you answered "YES" to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (http://www.ctc.ca.gov/educator-discipline/self-reporting.html) for the instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional paperwork/documentation to the CTC, the processing of your clearance application can take SIX MONTHS or longer. This means you may not be eligible to start the credential program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Additional Information

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Additional Information for All Admitted Program Candidates

- **Continued Enrollment:** Continued enrollment in the MA in Teaching with Multiple Subject Teaching Credential Program is contingent

upon the candidates maintaining a GPA of 3.0 in all professional education courses. If incomplete grades or grades of 'D', 'F', and 'NC' (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee.

- **Delays:** Candidates who have to delay progress in the MA in Teaching with Multiple Subject Teaching Credential Program will file a 'Program Delay Petition' in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Any student on academic probation is subject to automatic disqualification. Candidates must return and complete the program within the seven-year limit for graduate programs.
- **Appeal Process:** A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation. Appeals petitions and assistance are available in the Teaching Credentials Office

Bilingual Authorization (BA)

The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all program candidates with oral and written fluency as well as cultural/historical knowledge of the target group (Spanish or Hmong). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator for an advising appointment to review your transcripts.

Program Requirements

Year 1		
First Semester		**Units**
EDMS 334A proposed course number change to EDMS 234A		1
EDMS 334B proposed course number change to EDMS 234B		2
EDMS 272	Methods for Teaching Second Language Learners, Multiple Subject (ELD and SDAIE)	3
EDMS 314	Mathematics Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 316	Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 319A	Language and Literacy I for the Diverse K-8 Classroom	3
EDMS 330A	Educational Technology Lab I	1
EDMS 334C	Fundamentals of Teaching in a Diverse K-8 Classroom	2
EDMS 434A	Field Experience for Elementary Teachers	6
	Units	24
Second Semester		
EDMS 213	Strategies for Inclusive Classrooms: Multiple Subject	3
EDMS 332 proposed course number change to EDMS 232		2
EDMS 335A proposed course number change to EDMS 235A		1
EDMS 335B proposed course number change to EDMS 235B		1
EDMS 315	History-Social Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 317	Visual and Performing Arts Methods for the Diverse K-8 Classroom	1
EDMS 319B	Language and Literacy II for the Diverse K-8 Classroom	2
EDMS 434B	Student Teaching for Elementary Teachers	8
	Units	21
Third Semester		
EDMS 241	Action Research in Multicultural Settings	5
	Units	5
Year 2		
First Semester		
EDMS 242	Critical Perspectives in Classroom Inquiry	3
EDMS 243	Data Collection for Action Research in Multicultural Settings	3
	Units	6
Second Semester		
EDMS 244	Sociocultural & Sociopolitical Contexts of Data Analysis	3
EDMS 500	Classroom Inquiry Project: Culminating Experience	3
	Units	6
	Total Units	62

MA in Teaching with Single Subject Teaching Credential

Program Description

The MA in Teaching with Single Subject Teaching Credential program blends a teacher preparation program with a Master of Arts in Teaching (MAT). The Single Subject Teaching Credential authorizes the holder to provide instruction in approved subject areas in a departmentalized classroom. In reality, almost all junior and senior high school teachers hold the single subject credential.

Single Subject Teaching Credentials can be obtained in the areas of Art, Biology, Chemistry, English/Language Arts, French, Geoscience, General Science, German, Health Science, Home Economics, Mathematics, Music, Physical Education, Physics, History/Social Science, and Spanish. This credential embeds the English Learner Authorization (ELA), which prepares candidates to work with second language learners. The teacher preparation coursework focuses on preparing effective teachers for urban classrooms. Becoming an effective teacher for an urban setting, including a foundation in social justice and equity, is the focus of all activities, tasks and learning.

The candidates complete a program that requires full-time student status, with field experience and student teaching requirements in Sacramento Area districts as well as full-time coursework requirements. Upon completion of the Single Subject Teaching Credential coursework, program candidates will complete an additional sequence of five Master of Arts in Teaching (MAT) courses. Throughout the MAT program, candidates will learn how to critically examine the sociocultural and sociopolitical contexts related to the broad fields of educational research and schooling. Candidates will be expected to apply such analytical skills to develop and implement standards-based curriculum in diverse settings using best instructional and inclusive practices that positively impact the learning of all students including English Learners and students with disabilities. Candidates will also create an original Teacher Action Research Inquiry Project using practice-based methods in a diverse educational setting. The materials and associated activities presented

in the MAT coursework are highly integrated to support students with successful completion of the Master of Arts in Teaching degree at the end of the program.

Career Pathways Certificate

Within the Single Subject (Secondary) Teaching Credential program coursework, candidates have the option to pursue a Career Pathways Certificate and can indicate upon admission into the program their desire to pursue the certificate. The Career Pathways Certificate prepares candidates to teach in Career Pathways; these are specialized programs in high schools designed to prepare middle and high school secondary students for both college and career in themed small learning communities connected to the 15 Major California Industries. Numerous high schools in the Sacramento Region offer Career Pathways.

Candidates admitted into the MA in Teaching with Single Subject Teaching Credential program will take the same courses as other candidates, but will enroll in the Career Pathways Linked Learning sections. In addition, they will complete an additional two-unit work-based learning field experience course. At the end of the credential coursework, candidates will be recommended for a Single Subject teaching credential and will receive the Career Pathways Certificate.

Preliminary Teaching Credentials

As new regulations become mandated by the California Commission on Teacher Credentialing (CTC) and the California Department of Education, requirements for meeting subject matter competency and/or requirements for all preliminary credential programs will be changed to comply with the new requirements. The preliminary credential program is legislated according to the SB 2042 (Preliminary) Credential requirements. For further information, please contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639.

Program Admission Requirements

1. Minimum of 45 hours of experiences related to working with children or youth
2. Submit two program reference forms: one from a person who has observed the applicant's academic competence (current or former instructor) and the other from a person who has observed the applicant working with children or youth. ***NOTE*:** References from family members will not be accepted.
3. Submit a graduate writing sample in the form of an essay addressing a prompt related to the program's foundation in social justice and equity tied to a current issue in education. The essay prompt will change. Refer to the supplemental application for the current essay prompt
4. Satisfy writing proficiency in one of the following ways:
   a. Pass the entire CBEST (must pass the writing portion with a minimum of 37 points); **or**
   b. Pass the CSET: Writing Skills Test (*Multiple Subject applicants only*); or
   c. Meet the graduation writing requirement (GWAR) at any CSU campus; or
   d. Successfully complete an upper-division advanced English composition course, with a "B" grade or better
5. Satisfy Basic Skills Competence. For more detailed information, visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl667.pdf). Example of ways to satisfy Basic Skills Competence include:
   a. Pass the California Basic Educational Skills Test (CBEST) - all sections must be taken and passed
   b. Pass the CSU Early Assessment Program (EAP) English and Math Sections (tests completed in high school)
   c. Pass a basic skills examination form another state
6. Satisfy Subject Matter Competence by taking and passing all subtests of the CSET that aligns with the credential sought or complete a subject matter program
7. Grade Point Average (GPA) of at least 2.67 overall or 2.75 in last 60 semester or 90 quarter units as evidenced from official transcripts from every college/university attended
8. Complete Credential Prerequisite Courses: EDUC 170, EDUC 100A, EDUC 100B, HLSC 136, and KINS 172 (equivalent workshop can be taken during the program). A list of equivalent coursework is located on the Teaching Credentials website
9. Participate in the Mandatory Interview

Detailed descriptions of all admissions requirements are contained in the program's supplemental application directions.

Applications Required

CSU Graduate School Application for the University:

Applicants not currently attending Sacramento State, Sacramento State graduating seniors, and Sacramento State students completing a master's degree or second bachelor's degree MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line: Cal State Apply (https://www2.calstate.edu/apply/)

Teaching Credentials Program Supplemental Application:

All applicants must submit a supplemental program application. **Beginning in OCTOBER every year, the supplemental program applications with instructions/current requirements are available through the Teaching Credentials website.** Complete supplemental applications and all supporting documents must be submitted to Teaching Credentials by February. The exact submission deadline date is posted once applications are available on the website.

Certificate of Clearance (COC/Fingerprint Clearance):

ALL applicants must submit verification of having been issued a clearance by the CA Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential **OR** if you are applying for a Special Education credential program, verify a valid Multiple or Single Subject credential.

***NOTE*:** If you answered "YES" to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (http://www.ctc.ca.gov/educator-discipline/self-reporting.html) for the instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional paperwork/documentation to the CTC, the processing of your clearance application can take SIX MONTHS or longer. This means you may not be eligible to start the credential program if your clearance is not issued before the

program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Additional Information

Verification of Bachelor's Degree

ALL applicants must obtain a bachelor's degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as "Degree(s) Awarded" with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher Credentialing (CTC), visit the CTC website (http://www.ctc.ca.gov/credentials/accreditation-bodies.html).

Foreign Transcript Evaluation

Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees, and other relevant documents prior to applying for a teaching credential program. This evaluation is required by the California Commission on Teacher Credentialing (CCTC). It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the **WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation**. For additional information on foreign transcript evaluations please visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl635.pdf).

Verification of completing the United States Constitution Requirement

California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a "C" or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement.

Additional Information for All Admitted Program Candidates

- **Continued Enrollment:** Continued enrollment in the MA in Teaching with Multiple Subject Teaching Credential Program is contingent upon the candidates maintaining a GPA of 3.0 in all professional education courses. If incomplete grades or grades of 'D', 'F', and 'NC' (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee.
- **Delays:** Candidates who have to delay progress in the MA in Teaching with Multiple Subject Teaching Credential Program will file a 'Program Delay Petition' in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Any student on academic probation is subject to automatic disqualification. Candidates must return and complete the program within the seven-year limit for graduate programs.
- **Appeal Process:** A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation. Appeals petitions and assistance are available in the Teaching Credentials Office

Bilingual Authorization (BA)

The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all program candidates with oral and written fluency as well as cultural/historical knowledge of the target group (Spanish or Hmong). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator for an advising appointment to review your transcripts.

Program Requirements

Year 1

First Semester		Units
EDSS 364A is proposed for a course number change to EDSS 264A		3
OR		
EDSS 364E is proposed to change course number to EDSS 264E If pursuing Career Pathways Certificate		
EDSS 279A	Method and Materials for Teaching Secondary English Learners, A	1.5
EDSS 365A	Fundamentals of Teaching, Lecture	1.5
EDSS 365B or EDSS 365E	Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop or Fundamentals of Teaching, Workshop - Linked Learning	1.5
EDSS 366A or EDSS 366C	Single Subject Seminar, A or Single Subject Seminar, C	3
EDSS 373A	Educational Technology Lab I	1
EDSS 384A	Instruction and Assessment of Academic Literacy, A	1.5
EDSS 474A	Field Experiences in Secondary Schools	6
Select one of the following courses:		1.5
EDSS 383A	Methods in English Education, A	
EDSS 385A	Methods in World Language Education, A	
EDSS 386A	Methods in Mathematics Education, A	
EDSS 387A	Methods in History/Social Science Education, A	
EDSS 388A	Methods in Science Education, A	
KINS 380	Methods of Teaching Elementary Physical Education	
Select one of the following courses:		1.5
EDSS 383B	Methods in English Education, B	
EDSS 385B	Methods in World Language Education, B	
EDSS 386B	Methods in Mathematics Education, B	
EDSS 387B	Methods in History/Social Science Education, B	
EDSS 388B	Methods in Science Education, B	
KINS 381	Methods of Teaching Secondary Physical Education	
	Units	22

Second Semester		
EDSS 365C is proposed for a course number change to EDSS 265C		1
EDSS 365D is proposed for a course number change to EDSS 265D		1
OR		
EDSS 365F is proposed for a course number change to EDSS 265F If pursuing a Career Pathways Certificate		
EDSS 366B is proposed for a course number change to EDSS 266B		2
OR		
EDSS 366C is proposed for a course number change to EDSS 266C If pursuing a Career Pathways Certificate		
EDSS 279B	Methods and Materials for Teaching Secondary English Learners, B	1.5
EDSS 282 (New Course Proposal)		3
EDSS 364C	Advanced Theoretical Foundations of Teaching in a Multicultural Democratic Society, Lecture	1
EDSS 364D or EDSS 364F	Advanced Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop or Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop-Linked Learning	1
EDSS 373B or EDSS 373C	Educational Technology Lab II or Educational Technology Lab - Linked Learning	1
EDSS 384B	Instruction and Assessment of Academic Literacy, B	1.5
EDSS 474B	Student Teaching in Secondary Schools	8
	Units	21
Third Semester		
EDSS 241	Action Research in Multicultural Settings (Taken during summer after credential coursework complete)	5
	Units	5
Year 2		
First Semester		
EDSS 242	Critical Perspectives in Classroom Inquiry	3
EDSS 243	Data Collection for Action Research in Multicultural Settings	3
	Units	6
Second Semester		
EDSS 244	Sociocultural & Sociopolitical Contexts of Data Analysis	3
EDSS 500	Classroom Inquiry Project: Culminating Experience	3
	Units	6
	Total Units	60

Note: An undergraduate blended program leading to a Single Subject Credential in Mathematics is also available. For further information about the Mathematics Blended Program, contact: Dr. Elaine Kasimatis.

Career Pathways Certificate

Code	Title	Units
EDSS 364E		
EDSS 364F	Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop-Linked Learning	1
EDSS 365E	Fundamentals of Teaching, Workshop - Linked Learning	1.5
EDSS 365F		
EDSS 279A	Method and Materials for Teaching Secondary English Learners, A	1.5
EDSS 279B	Methods and Materials for Teaching Secondary English Learners, B	1.5
EDSS 373A	Educational Technology Lab I	1
EDSS 366C	Single Subject Seminar, C	3
EDSS 366D		
EDSS 440	Work-Based Learning Field Experience	2
Total Units		11.5

Multiple Subject Teaching Credential

Total units needed for Credential: 38-49

Program Description

The Multiple Subject Teaching Credential authorizes the holder to teach all subjects in a self-contained classroom, such as the classrooms in most elementary schools, in grades preschool, K-12, or in classes organized primarily for adults. In addition, the holder of a Multiple Subject Teaching Credential may serve in a core or team teaching setting. This credential also embeds the English Learner Authorization (ELA), which prepares candidates to work with second language learners.

The Multiple Subject Program is a post-baccalaureate program focused on preparing effective teachers for urban classrooms. Becoming an effective teacher for an urban setting, including a foundation in social justice and equity, is the focus of all activities, tasks and learning in our single subject teacher preparation program. The program has two- and three-semester options. Two semester candidates complete a program that requires full-time student status, with field experience and student teaching requirements as well as full-time coursework requirements both semesters. Two semester candidates complete their field experience and student teaching activities with partner schools in local districts including Sacramento City, San Juan, Elk Grove, Twin Rivers, Natomas, and Folsom Cordova unified school districts. Three semester candidates complete a program with a more gradual introduction of field experience/student teaching activities, though the 3rd semester of the program requires a full time commitment. Most three semester candidates will complete their field experience/student teaching in one of our 4 professional development schools, located in the San Juan Unified School Distinct. All program coursework for both program options is conducted at the Sacramento State campus.

Two-semester and three-semester programs are available. Please visit the Teaching Credentials website (http://www.csus.edu/coe/academics/credentials/) for sequence of courses, time commitment, and other information.

Preliminary Teaching Credentials

As new regulations become mandated by the California Commission on Teacher Credentialing (CTC) and the California Department of Education, requirements for meeting subject matter competency and/or requirements for all preliminary credential programs will be changed to comply with the new requirements. The preliminary credential program is legislated according to the SB 2042 (Preliminary) Credential requirements. For further information, please contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639.

Preliminary Teaching Credential Requirements

Completion of the Preliminary Teaching Credential requires that the candidate:

- hold a baccalaureate or higher degree in a field other than professional education from a regionally accredited college or university;
- complete an approved program of teacher preparation, including student teaching;
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the elementary school level, complete either an approved subject matter program or pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the secondary school level, complete either an approved subject matter program in one of the core academic subject areas or pass an approved subject-matter examination in a core academic subject area (CSET: California Subject Examination for Teachers);
- for a Multiple Subject credential, pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for Single Subject, complete either an approved subject matter program or pass the approved subject-matter examination (CSET) in the appropriate teaching area;
- for Single Subject, complete an approved course in the teaching of reading;
- for Multiple Subject, complete an approved course in the teaching of reading and pass the Reading Instruction Competence Assessment (RICA) exam;
- pass a college-level course or examination on the U.S. Constitution; and
- demonstrate California Basic Educational Skills (see subsection below on options available).

Teaching Credentials offers a variety of pathways for completing the Preliminary Credential programs depending on the program:

- a one-year (two-semester) program;
- a three-semester program;
- a two-year (four-semester) program – Education Specialist programs only; part-time options are available which will increase time to program completion

Field experience and student teaching are integral parts of the program leading to Preliminary Credentials. In both the Multiple Subject and Single Subject Teacher Preparation programs, candidates move through the program in cohorts. Full-time Education Specialist candidates follow a tightly-sequenced series of courses. In all teacher preparation programs, candidates complete fieldwork in public schools. All candidates will have experience working with children or youth from a broad range of cultural, ethnic, economic and special learning needs backgrounds.

Program Admission Requirements at a Glance

1. Experiences related to working with children or youth
2. References (2)
3. Essay
4. Official Transcripts from every college/university attended
5. Writing Proficiency
6. Basic Skills Competence (i.e., pass the CBEST)
7. Subject Matter Competence (i.e., pass the CSET)
8. Grade Point Average (GPA) of at least 2.67 overall or 2.75 in last 60 semester or 90 quarter units
9. Complete Credential Prerequisite Courses: EDUC 170, EDUC 100A, EDUC 100B, HLSC 136, and KINS 172 (MS only – equivalent workshop can be taken during the program)
10. Complete the Mandatory Interview

Applications Required at a Glance

- Teaching credentials Supplemental Program Application
- CSU Graduate School Application
- Certificate of Clearance Application (and fingerprint clearance through CTC)

Admission Requirements – General Information Only

Experiences Related to Working with Children or Youth (paid and/or volunteer)

A minimum of 45 hours of experience (closer to 100+ hours if you want to be competitive) with diverse populations is required to be considered for program admission. Possible field experiences can include: classroom instructional aide, tutoring, afterschool program, Peace Corps, camp counseling, child/youth recreation programs, coaching, group-home counseling, church school teaching, etc. Your responses will be evaluated using the following criteria:

- ***Recency:*** Experience needs to be recent – at least within 1-2 years of the application period. You can list all experiences gained on the supplemental application, but regency is key.
- ***Settings:*** Majority of your experiences should be in appropriate settings/schools (**ideally public schools**) with culturally, linguistically, and socioeconomically diverse students of the age group (i.e., elementary school, high school, etc.) or population (i.e., special needs population) you plan to teach. You will list the diversity of your experiences on the supplemental application.
- ***Supervision:*** Has the verifiable experience been gained under supervision? If so, you will need to list names of your supervisors on the supplemental application.

References

Applicants submit two reference forms (included in the supplemental application). Letters of recommendation will not be accepted in lieu of

reference forms. ***Only reference forms submitted in sealed envelopes will be accepted.*** It is recommended that one of the references be from a person who has observed the applicant's academic competence (current or former instructor) and the other reference from a person who has observed the applicant working with children or youth. ***NOTE*:** References from family members will not be accepted.

Essay

Discuss a critical, current issue in teaching/education and the relationship of this issue to your motivation to become a teacher in a typed, two-page, double-spaced essay. ***NOTE:*** This prompt is subject to change.

Transcripts

Applicants must provide ***official, sealed transcripts*** from every community college/college/university attended, even if only ONE class was completed. ***Sacramento State students and Sacramento State graduates are exempt, unless coursework was completed at another college after you graduated***.

Writing Proficiency

Satisfying writing proficiency is a program admission requirement. This requirement may be met in one of the following ways:

1. Pass the entire CBEST (must pass the writing portion with a minimum of 37 points); **or**
2. Pass the CSET: Writing Skills Test (*Multiple Subject applicants only*); **or**
3. Meet the graduation writing requirement (GWAR) at any CSU campus; **or**
4. Successfully complete an upper-division advanced English composition course, with a "B" grade or better.

Basic Skills Requirement (BSR)

Satisfying the basic skills requirement is a program admission requirement. Select one of the following options to meet this requirement. For detailed information visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl667.pdf).

1. Pass the California Basic Educational Skills Test (CBEST) – all sections must be taken and passed
2. Pass the CSU Early Assessment Program (EAP)English and Math sections(tests completed in high school)
3. Pass the CSU English Placement Test (EPT) and the Entry Level Math (ELM) Test (For more information, visit the Testing Center website (http://www.csus.edu/testing/))
4. Pass the CSET: Writing Skills Test (available to Multiple Subject applicants only)
5. Pass a basic skills examination from another state

Register online at the CTC Exams website (http://www.ctcexams.nesinc.com). **Take exams no later than February for FALL admission consideration.**

Subject Matter Competence (SMC)

Applicants are required to meet SMC to be considered for admission:

> ***Special Education:*** Applicants holding one of the following types of credentials, may have met the subject matter competency requirement: five-year preliminary, clear, professional clear, or life credential in the following authorizations: Multiple Subject, Single Subject, Standard Elementary, Standard Secondary, General Elementary, or General Secondary. *Applicants who do not hold one of the types of credentials listed above* can meet SMC through one of the following options:

- CSET for Multiple Subjects option or
- Single Subject option (see requirements below)

> ***Multiple Subject:*** All applicants must satisfy SMC by passing the California Subject Examinations for Teachers (CSET): Multiple Subjects subtests I, II, and III. ***NOTE*:** CSET passing scores on all three (3) subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration.*** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).
>
> ***Single Subject***: Applicants may satisfy SMC in ONE of two ways, either (1) by examination **or** (2) by completing an approved undergraduate program of subject matter coursework.

1. **Examination(s)** Take and pass the California Subject Examinations for Teachers (CSET) in your subject area. Be sure to take all required subtests in your teaching area. ***NOTE*:** CSET passing scores on all subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration.*** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).
2. **Coursework** Complete a California Commission-approved undergraduate academic subject matter preparation (SMP) program from an accredited California college/university.

SMP Coursework Options

- **The Sacramento State Subject Matter Program (SMP)** is a California approved baccalaureate program that prepares individuals for teaching. Sac State students completing a SMP must meet with an approved advisor as soon as possible in order to complete the Subject Matter Competence Verification Form. For a listing of faculty advisors visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/smp-advisor-20160926.pdf).
- **Non-Sacramento State applicants** who completed an approved SMP on a California campus other than Sacramento State must submit verification of completion of the SMP on letterhead stationery of your school, signed by the approved evaluator, instead of using the Subject Matter Competence Verification Form. Check with your College's Credentials office for the approved evaluator.

Grade Point Average (GPA) Required

In order to be considered for admission to a Teaching Credential Program, applicants must have attained a cumulative GPA of at least 2.67 in all baccalaureate and post-baccalaureate course work (if completed) **OR** a GPA of at least 2.75 in the last 60 semester or 90 quarter units attempted.

Pre-requisite Credential Courses – to be completed PRIOR to starting the credential programs:

Code	Title	Units
EDUC 100A	Educating Students with Disabilities in Inclusive Settings	2
EDUC 100B	Educating Students with Disabilities in Inclusive Settings Lab	1

EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
HLSC 136		2
KINS 172	Movement Education [1]	3

[1] For MS only. If admitted, an equivalent PE/Health methods workshop can be completed during the credential program.

List of equivalent courses, visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/cred-equivalencies-prereqs-20160712.pdf).

Interview

All applicants must participate in a one-hour group interview as part of the screening process. After the supplemental program application is received by the Department, applicants are notified by email of the interview process and dates.

Applications Required

CSU Graduate School Application for the University:

Applicants not currently attending Sacramento State, Sacramento State graduating seniors, and Sacramento State students completing a master's degree or second bachelor's degree MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line.

Transcripts: Applicants who did not graduate from Sacramento State must submit ***one (1) set of sealed, official transcripts from ALL community colleges/colleges/universities attended, even if only ONE class was completed.*** If you have questions about the University graduate school application process, please contact the OGS at (916) 278-6470.

Foreign degrees: Transcripts from applicants with degrees from outside of the United States must review the information/instructions on the Office of Graduate Studies website (http://www.csus.edu/gradstudies/FutureStudents/ApplicantsWithForeignDocuments/).

NOTE: Foreign transcripts and other supporting documents are usually due much earlier than University and department application deadlines.

Teaching Credentials Program Supplemental Application:

All applicants must submit a supplemental program application packet that includes: a list of experiences related to teaching/working with children/youth, an essay, two completed & sealed reference forms, writing proficiency verification, subject matter competency verification, and basic skills requirement verification (CBEST or other approved verification). **Beginning in OCTOBER every year, the supplemental program applications with instructions/current requirements are available on the** College of Education website **(**http://www.csus.edu/coe/apply/credentials.html**)**. Credential programs only begin in FALL semesters. Complete supplemental applications and all supporting documents must be submitted to the Teaching Credentials by February. The exact submission deadline date is posted once applications are available on the website.

Certificate of Clearance (COC/Fingerprint Clearance):

ALL applicants must submit verification of having been issued a clearance by the CA Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

- Applicants who *have already been issued* a clearance/permit/credential must submit a printout from the CTC website (http://www.ctc.ca.gov) showing the issuance date of a valid CA 30-day emergency permit, a valid CA Child Development Associate/Center permit, a valid CA credential, or a valid Certificate of Clearance.
- Applicants who *have NOT been issued* a clearance/permit/credential must apply for the Certificate of Clearance on the CTC website as well as complete the Live Scan fingerprinting process. Tips for completing the online application and Live Scan process can be found on the CTC website (http://www.ctc.ca.gov/credentials/online-services/pdf/web-app-tips.pdf). Proof of applying for the clearance and completing the Live Scan process MUST be submitted with the supplemental credential program application packet. Include as proof the following: a copy of the 'Payment Receipt' page from the on-line COC application AND a copy of your completed and scanned Live Scan form.
- Once your clearance is issued, you will receive an email from the CTC. Print this email and submit it with your supplemental program application packet. Or, if the email is received after you have submitted your application, submit the email directly to the Teaching Credentials Department in Eureka Hall - 401.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential **OR** if you are applying for a Special Education credential program, verify a valid Multiple or Single Subject credential.

***NOTE*:** If you answered "YES" to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (http://www.ctc.ca.gov/educator-discipline/self-reporting.html) for the instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional paperwork/documentation to the CTC, the processing of your clearance application can take six months or longer. This means you may not be eligible to start the credential program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Additional Information

Verification of Bachelor's Degree

ALL applicants must obtain a bachelor's degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as "Degree(s) Awarded" with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher Credentialing (CTC), visit the CTC website (http://www.ctc.ca.gov/credentials/accreditation-bodies.html).

Foreign Transcript Evaluation

Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees[1], and other relevant documents prior to applying for a teaching credential program. This evaluation is required by the California Commission on Teacher Credentialing (CCTC). It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of

Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the **WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation**. For additional information on foreign transcript evaluations please visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl635.pdf).

[1] The bachelor's degree requirement for California credentials refers to the equivalent of a four-year (or more) college-level program.

Verification of completing the United States Constitution Requirement

California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a "C" or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement.

Additional Information for All Admitted Credential Candidates

- Continued Enrollment**: Continued enrollment in a Preliminary Credential Program is contingent upon the candidates maintaining a GPA of 3.0 in all professional education courses**. If incomplete grades or grades of 'D', 'F', and 'NC' (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee.
- Delays**:** Candidates who have to delay progress in a Preliminary Credential Program file a 'Program Delay Petition' in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Any student on academic probation is subject to automatic disqualification as a Credential candidate.

Appeal Process: A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation. Appeals petitions and assistance are available in the Teaching Credentials Office

Bilingual Authorization (BA)

The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all credential candidates with oral and written fluency as well as cultural/historical knowledge of the target group (Spanish or Hmong). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator, Karina Figueroa-Ramirez (figueroaramirez@csus.edu), for an advising appointment to review your transcripts.

Prerequisite Requirements

Code	Title	Units
Prerequisites for Admission to Program (11 Units)		
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab	3
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
PUBH 136	School Health Education	2
KINS 172	Movement Education [1]	3
Total Units		11

Program Requirements

Basic Option

Code	Title	Units
Program Coursework (39 Units)		
EDMS 272	Methods for Teaching Second Language Learners, Multiple Subject (ELD and SDAIE)	3
EDMS 300	Teaching Performance Assessment-Multiple Subjects-Mathematics	1
EDMS 314	Mathematics Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 315	History-Social Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 316	Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 317	Visual and Performing Arts Methods for the Diverse K-8 Classroom	1
EDMS 319A	Language and Literacy I for the Diverse K-8 Classroom	3
EDMS 319B	Language and Literacy II for the Diverse K-8 Classroom	3
EDMS 330A	Educational Technology Lab I	1
EDMS 330B	Educational Technology Lab II	1
EDMS 332		2
EDMS 334A		2
EDMS 334B		4
EDMS 335A		1
EDMS 335B		2
EDMS 434A	Field Experience for Elementary Teachers	2
EDMS 434B	Student Teaching for Elementary Teachers	4
Total Units		39

[1] Admitted credential candidates can take the SPARKS workshop as an equivalent

[2] Admission to the Multiple Subject Teacher Credential Program.

[3] Corequisite can be waived if candidate is retaking EDMS 300

Intern Option— This option is suspended until deleted

Code	Title	Units
EDUC 168	Foundational Issues for a Multicultural, Pluralistic Society, B	3
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
Select one of the following:		3
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab	
Any course taken prior to MS credential program that meets current CCTC standards for educating exceptional students.		
EDTE 117A		

EDTE 310A		
EDTE 310B		
EDMS 310C	Pedagogy C: Classroom Instruction and Positive Management for Diverse Classrooms	1
EDMS 314	Mathematics Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 315	History-Social Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 316	Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 317	Visual and Performing Arts Methods for the Diverse K-8 Classroom	1
EDMS 319A	Language and Literacy I for the Diverse K-8 Classroom	3
EDMS 319B	Language and Literacy II for the Diverse K-8 Classroom	2
EDMS 330		
EDTE 433A		
EDTE 433B		
Select one of the following:		2
HLSC 136		
Any course taken prior to MS credential program that meets current CCTC standards for health sciences.		
Total Units		27

[1] Admission into the Multiple Subject Credential Program.

Credential - Multiple Subject - BETEP (Blended) Option — This option is suspended until deleted

Code	Title	Units
EDUC 168	Foundational Issues for a Multicultural, Pluralistic Society, B	3
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
Select one of the following:		3
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab	
Any course taken prior to MS credential program that meets current CCTC standards for educating exceptional students.		
EDTE 117A		
EDTE 310A		
EDTE 310B		
EDMS 314	Mathematics Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 315	History-Social Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 316	Science Curriculum and Instruction for the Diverse K-8 Classroom	3
EDMS 317	Visual and Performing Arts Methods for the Diverse K-8 Classroom	1
EDMS 319A	Language and Literacy I for the Diverse K-8 Classroom	3
EDMS 319B	Language and Literacy II for the Diverse K-8 Classroom	2
EDMS 330		
EDTE 431A		
EDTE 431B		
Total Units		24

[1] Admission to the Multiple Subject Credential Program.

Preliminary Education Specialist Teaching Credential Program: Early Childhood Special Education

Total units required for Credential: 38-52

Program Description

The Early Childhood Special Education (ECSE) Specialist credential is a stand-alone teaching credential authorizing educational services to infants, toddlers, and preschool age children with disabilities and their families. The ECSE Specialist credential is issued by the California Commission of Teacher Credentialing, with issuance based on successful completion of a Commission-approved ECSE training program. The ECSE Specialist credential program at Sacramento State is a Commission-approved program.

University- and California Commission on Teacher Credentialing- (CTC) approved program options also allow candidates to pursue the M/M or M/S specialty concurrently with the Multiple Subject Credential. Another approved program allows candidates to add an ECSE Certificate to existing Clear M/M, M/S or other California Special Education Specialist credentials. For additional information regarding the ECSE Certificate, please contact the ECSE Coordinator (current the program is on hiatus) or Teaching Credentials Office.

All credential programs undergo continual review and change; current requirements are available on the Teaching Credentials website (http://www.csus.edu/coe/academics/credentials/). All candidates are required to seek advisement regarding credential coursework and must complete a program advisement plan prior to the start of the program. Candidates must take prerequisites prior to the start of the program; candidates who continue without advisement or do not complete prerequisites prior to the start of the program may be disenrolled.

Special Education Internships

All Preliminary Education Specialist programs at Sacramento State have been approved by CCTC as internship programs. In order to be eligible for an Intern Education Specialist Credential, candidates must

- have been admitted and cleared all admission requirements for the credential program;
- have received the recommendation of a faculty member;
- have received an offer of employment from an employer; and
- be pursuing an internship with a district/school that has a written internship agreement (Memorandum of Understanding) with Sacramento State.

Only candidates in their final semester of the program can be considered for internships.

Note: Candidates working under an Education Specialist Internship Credential must concurrently fulfill the requirements of the credential program and the internship appointment.

Preliminary Teaching Credentials

As new regulations become mandated by the California Commission on Teacher Credentialing (CTC) and the California Department of Education, requirements for meeting subject matter competency and/or requirements for all preliminary credential programs will be changed to comply with the new requirements. The preliminary credential program is legislated according to the SB 2042 (Preliminary) Credential requirements. For further information, please contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639.

Preliminary Teaching Credential Requirements

Completion of the Preliminary Teaching Credential requires that the candidate:

- hold a baccalaureate or higher degree in a field other than professional education from a regionally accredited college or university;
- complete an approved program of teacher preparation, including student teaching;
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the elementary school level, complete either an approved subject matter program or pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the secondary school level, complete either an approved subject matter program in one of the core academic subject areas or pass an approved subject-matter examination in a core academic subject area (CSET: California Subject Examination for Teachers);
- for a Multiple Subject credential, pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for Single Subject, complete either an approved subject matter program or pass the approved subject-matter examination (CSET) in the appropriate teaching area;
- for Single Subject, complete an approved course in the teaching of reading;
- for Multiple Subject, complete an approved course in the teaching of reading and pass the Reading Instruction Competence Assessment (RICA) exam;
- pass a college-level course or examination on the U.S. Constitution; and
- demonstrate California Basic Educational Skills (see subsection below on options available).

Teaching Credentials offers a variety of pathways for completing the Preliminary Credential programs depending on the program:

- a one-year (two-semester) program;
- a three-semester program;
- a two-year (four-semester) program – Education Specialist programs only; part-time options are available which will increase time to program completion

Field experience and student teaching are integral parts of the program leading to Preliminary Credentials. In both the Multiple Subject and Single Subject Teacher Preparation programs, candidates move through the program in cohorts. Full-time Education Specialist candidates follow a tightly-sequenced series of courses. In all teacher preparation programs, candidates complete fieldwork in public schools. All candidates will have experience working with children or youth from a broad range of cultural, ethnic, economic and special learning needs backgrounds.

Program Admission Requirements at a Glance

1. Experiences related to working with children or youth
2. References (2)
3. Essay
4. Official Transcripts from every college/university attended
5. Writing Proficiency
6. Basic Skills Competence (i.e., pass the CBEST)
7. Subject Matter Competence (i.e., pass the CSET)
8. Grade Point Average (GPA) of at least 2.67 overall or 2.75 in last 60 semester or 90 quarter units
9. Complete Credential Prerequisite Courses: EDUC 170, EDUC 100A, EDUC 100B, HLSC 136, and KINS 172 (MS only – equivalent workshop can be taken during the program)
10. Complete the Mandatory Interview

Applications Required at a Glance

- Teaching credentials Supplemental Program Application
- CSU Graduate School Application
- Certificate of Clearance Application (and fingerprint clearance through CTC)

Admission Requirements – General Information Only

Experiences Related to Working with Children or Youth (paid and/or volunteer)

A minimum of 45 hours of experience (closer to 100+ hours if you want to be competitive) with diverse populations is required to be considered for program admission. Possible field experiences can include: classroom instructional aide, tutoring, afterschool program, Peace Corps, camp counseling, child/youth recreation programs, coaching, group-home counseling, church school teaching, etc. Your responses will be evaluated using the following criteria:

- ***Recency:*** Experience needs to be recent – at least within 1-2 years of the application period. You can list all experiences gained on the supplemental application, but regency is key.
- ***Settings:*** Majority of your experiences should be in appropriate settings/schools (**ideally public schools**) with culturally, linguistically, and socioeconomically diverse students of the age group (i.e., elementary school, high school, etc.) or population (i.e., special needs population) you plan to teach. You will list the diversity of your experiences on the supplemental application.

- ***Supervision:*** Has the verifiable experience been gained under supervision? If so, you will need to list names of your supervisors on the supplemental application.

References

Applicants submit two reference forms (included in the supplemental application). Letters of recommendation will not be accepted in lieu of reference forms. ***Only reference forms submitted in sealed envelopes will be accepted.*** It is recommended that one of the references be from a person who has observed the applicant's academic competence (current or former instructor) and the other reference from a person who has observed the applicant working with children or youth. ***NOTE*:** References from family members will not be accepted.

Essay

Discuss a critical, current issue in teaching/education and the relationship of this issue to your motivation to become a teacher in a typed, two-page, double-spaced essay. ***NOTE:*** This prompt is subject to change.

Transcripts

Applicants must provide ***official, sealed transcripts*** from every community college/college/university attended, even if only ONE class was completed. ***Sacramento State students and Sacramento State graduates are exempt, unless coursework was completed at another college after you graduated***.

Writing Proficiency

Satisfying writing proficiency is a program admission requirement. This requirement may be met in one of the following ways:

1. Pass the entire CBEST (must pass the writing portion with a minimum of 37 points); **or**
2. Pass the CSET: Writing Skills Test (*Multiple Subject applicants only*); **or**
3. Meet the graduation writing requirement (GWAR) at any CSU campus; **or**
4. Successfully complete an upper-division advanced English composition course, with a "B" grade or better.

Basic Skills Requirement (BSR)

Satisfying the basic skills requirement is a program admission requirement. Select one of the following options to meet this requirement. For detailed information visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl667.pdf).

1. Pass the California Basic Educational Skills Test (CBEST) – all sections must be taken and passed
2. Pass the CSU Early Assessment Program (EAP)English and Math sections(tests completed in high school)
3. Pass the CSU English Placement Test (EPT) and the Entry Level Math (ELM) Test (For more information, visit the Testing Center website (http://www.csus.edu/testing/))
4. Pass the CSET: Writing Skills Test (available to Multiple Subject applicants only)
5. Pass a basic skills examination from another state

Register online at the CTC Exams website (http://www.ctcexams.nesinc.com). **Take exams no later than February for FALL admission consideration.**

Subject Matter Competence (SMC)

Applicants are required to meet SMC to be considered for admission:

Special Education: Applicants holding one of the following types of credentials, may have met the subject matter competency requirement: five-year preliminary, clear, professional clear, or life credential in the following authorizations: Multiple Subject, Single Subject, Standard Elementary, Standard Secondary, General Elementary, or General Secondary. *Applicants who do not hold one of the types of credentials listed above* can meet SMC through one of the following options:

- CSET for Multiple Subjects option or
- Single Subject option (see requirements below)

Multiple Subject: All applicants must satisfy SMC by passing the California Subject Examinations for Teachers (CSET): Multiple Subjects subtests I, II, and III. ***NOTE*:** CSET passing scores on all three (3) subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration.*** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).

Single Subject: Applicants may satisfy SMC in ONE of two ways, either (1) by examination **or** (2) by completing an approved undergraduate program of subject matter coursework.

1. **Examination(s)** Take and pass the California Subject Examinations for Teachers (CSET) in your subject area. Be sure to take all required subtests in your teaching area. ***NOTE*:** CSET passing scores on all subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration.*** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).
2. **Coursework** Complete a California Commission-approved undergraduate academic subject matter preparation (SMP) program from an accredited California college/university.

SMP Coursework Options

- **The Sacramento State Subject Matter Program (SMP)** is a California approved baccalaureate program that prepares individuals for teaching. Sac State students completing a SMP must meet with an approved advisor as soon as possible in order to complete the Subject Matter Competence Verification Form. For a listing of faculty advisors visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/smp-advisor-20160926.pdf).
- **Non-Sacramento State applicants** who completed an approved SMP on a California campus other than Sacramento State must submit verification of completion of the SMP on letterhead stationery of your school, signed by the approved evaluator, instead of using the Subject Matter Competence Verification Form. Check with your College's Credentials office for the approved evaluator.

Grade Point Average (GPA) Required

In order to be considered for admission to a Teaching Credential Program, applicants must have attained a cumulative GPA of at least 2.67 in all

baccalaureate and post-baccalaureate course work (if completed) **OR** a GPA of at least 2.75 in the last 60 semester or 90 quarter units attempted.

Pre-requisite Credential Courses – to be completed PRIOR to starting the credential programs:

Code	Title	Units
CHDV 30	Human Development	3
EDUC 100A	Educating Students with Disabilities in Inclusive Settings	2
EDUC 100B	Educating Students with Disabilities in Inclusive Settings Lab	1
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
30 hours documented field experience with young children (aged: birth to 5 years)		
Coursework in child development or related field approved by the ECSE Coordinator		

List of equivalent courses, visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/cred-equivalencies-prereqs-20160712.pdf).

Interview

All applicants must participate in a one-hour group interview as part of the screening process. After the supplemental program application is received by the Department, applicants are notified by email of the interview process and dates.

Applications Required

CSU Graduate School Application for the University:

Applicants not currently attending Sacramento State, Sacramento State graduating seniors, and Sacramento State students completing a master's degree or second bachelor's degree MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line.

Transcripts: Applicants who did not graduate from Sacramento State must submit ***one (1) set of sealed, official transcripts from ALL community colleges/colleges/universities attended, even if only ONE class was completed.*** If you have questions about the University graduate school application process, please contact the OGS at (916) 278-6470.

Foreign degrees: Transcripts from applicants with degrees from outside of the United States must review the information/instructions on the Office of Graduate Studies website (http://www.csus.edu/gradstudies/FutureStudents/ApplicantsWithForeignDocuments/).

NOTE: Foreign transcripts and other supporting documents are usually due much earlier than University and department application deadlines.

Teaching Credentials Program Supplemental Application:

All applicants must submit a supplemental program application packet that includes: a list of experiences related to teaching/working with children/youth, an essay, two completed & sealed reference forms, writing proficiency verification, subject matter competency verification, and basic skills requirement verification (CBEST or other approved verification). **Beginning in OCTOBER every year, the supplemental program applications with instructions/current requirements are available on the** College of Education website **(**http://www.csus.edu/coe/apply/credentials.html**)**. Credential programs only begin in FALL semesters. Complete supplemental applications and all supporting documents must be submitted to the Teaching Credentials by February.

The exact submission deadline date is posted once applications are available on the website.

Certificate of Clearance (COC/Fingerprint Clearance):

ALL applicants must submit verification of having been issued a clearance by the CA Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

- Applicants who *have already been issued* a clearance/permit/credential must submit a printout from the CTC website (http://www.ctc.ca.gov) showing the issuance date of a valid CA 30-day emergency permit, a valid CA Child Development Associate/Center permit, a valid CA credential, or a valid Certificate of Clearance.
- Applicants who *have NOT been issued* a clearance/permit/credential must apply for the Certificate of Clearance on the CTC website as well as complete the Live Scan fingerprinting process. Tips for completing the online application and Live Scan process can be found on the CTC website (http://www.ctc.ca.gov/credentials/online-services/pdf/web-app-tips.pdf). Proof of applying for the clearance and completing the Live Scan process MUST be submitted with the supplemental credential program application packet. Include as proof the following: a copy of the 'Payment Receipt' page from the on-line COC application AND a copy of your completed and scanned Live Scan form.
- Once your clearance is issued, you will receive an email from the CTC. Print this email and submit it with your supplemental program application packet. Or, if the email is received after you have submitted your application, submit the email directly to the Teaching Credentials Department in Eureka Hall - 401.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential **OR** if you are applying for a Special Education credential program, verify a valid Multiple or Single Subject credential.

***NOTE*:** If you answered "YES" to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (http://www.ctc.ca.gov/educator-discipline/self-reporting.html) for the instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional paperwork/documentation to the CTC, the processing of your clearance application can take six months or longer. This means you may not be eligible to start the credential program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Additional Information

Verification of Bachelor's Degree

ALL applicants must obtain a bachelor's degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as "Degree(s) Awarded" with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher

Credentialing (CTC), visit the CTC website (http://www.ctc.ca.gov/credentials/accreditation-bodies.html).

Foreign Transcript Evaluation

Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees[1], and other relevant documents prior to applying for a teaching credential program. This evaluation is required by the California Commission on Teacher Credentialing (CCTC). It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the **WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation**. For additional information on foreign transcript evaluations please visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl635.pdf).

[1] The bachelor's degree requirement for California credentials refers to the equivalent of a four-year (or more) college-level program.

Verification of completing the United States Constitution Requirement

California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a "C" or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement.

Additional Information for All Admitted Credential Candidates

- Continued Enrollment**: Continued enrollment in a Preliminary Credential Program is contingent upon the candidates maintaining a GPA of 3.0 in all professional education courses**. If incomplete grades or grades of 'D', 'F', and 'NC' (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee.
- Delays**:** Candidates who have to delay progress in a Preliminary Credential Program file a 'Program Delay Petition' in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Any student on academic probation is subject to automatic disqualification as a Credential candidate.

Appeal Process: A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation. Appeals petitions and assistance are available in the Teaching Credentials Office

Bilingual Authorization (BA)

The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all credential candidates with oral and written fluency as well as cultural/historical knowledge of the target group (Spanish or Hmong). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator, Karina Figueroa-Ramirez (figueroaramirez@csus.edu), for an advising appointment to review your transcripts.

Prerequisite Requirements

The following prerequisites are required:

- 30 hours documented field experience with young children (birth to 5 years);
- coursework in child development or related field approved by ECSE Coordinator; and
- CHDV 30, Human Development.

Course/experience equivalencies may be granted by assigned EDS advisor as warranted.

Program Requirements

Code	Title	Units
Required Courses (38-52 Units)		
EDSP 119	Legal and Social Foundations of Special Education	3
EDSP 201	Developing Collaborative Partnerships with Families, Professionals, and Communities in ECSE	3
EDSP 209	Developing Augmentative & Alternative Communication Systems: Assessment and Intervention	3
EDSP 210	Assessment and Evaluation in Early Childhood Special Education	3
EDSP 211	Curriculum, Intervention Strategies, and Environments in ECSE I: Infants & Toddlers	3
EDSP 212	Curriculum, Intervention Strategies, and Environments in ECSE II: Preschool	3
EDSP 216	Understanding the Implications of Developmental Diversity in Children and Youth	3
EDSP 218	Instructional Strategies: Low Incidence Disabilities	3
EDSP 230 & 230B	Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges Lab	4
EDSP 292	Teaching English Learners with Disabilities	3
EDSP 234	Directed Fieldwork Seminar: Early Childhood Special Education	1
EDSP 474	Directed Field Experience in ESCE: Infants & Toddlers	3 - 10
or EDSP 476	Internship in ECSE: Infants & Toddlers	
EDSP 475	Directed Field Experience in ECSE: Preschool	3 - 10
or EDSP 477	Internship in ECSE: Preschool	
Total Units		38-52

Single Subject Teaching Credential

Total units required for Credential: 37-45

Program Description

The Single Subject Teaching Credential authorizes the holder to provide instruction in the subject named on the credential in departmentalized classrooms and embeds the English Learner Authorization (ELA), which prepares candidates to work with second language learners. In reality, almost all junior and senior high school teachers hold the single subject

credential. Single Subject Teaching Credentials can be obtained in the following teaching areas:

- Art
- Biology
- Chemistry
- English/Language Arts
- French
- Geoscience
- General Science
- German
- Health Science
- Home Economics
- Mathematics (Foundational Level and Full)
- Music
- Physical Education
- Physics
- Social Science (History)

The Single Subject Program is a post-baccalaureate program organized so that candidates complete the program in two semesters. Each semester candidates complete a set of field experiences or student teaching activities and take a full-time complement of courses. Candidates are placed in an urban partner school typically for the entire academic year, where they have the opportunity to fully engage in the life of the school and forge meaningful relationships with their mentor teachers and with groups of students. Coursework in the program follows an innovative spiral schedule, where courses are taught in 8 week modules, with content aligned to meet the needs of the candidates as they take on increasing responsibilities in their host classrooms for instructional planning, teaching and adjunct teacher duties (e.g., student mentoring/support, parent meetings, support for extracurricular activities, etc.).

Becoming an effective teacher for an urban setting, including a foundation in social justice and equity, is the focus of all activities, tasks and learning in our single subject teacher preparation program. We do offer two specialized pathways: one focuses on the content, skills and experiences related to Linked Learning/Career Pathway programs in partner high schools and the other is for candidates with bilingual skills in Spanish or Hmong. Interest in the bilingual authorization is ascertained during the admissions process, and we survey all admitted candidates for interest in the Linked Learning/Career Pathway cohort.

For more information about the Single Subject Credential, visit **--Commission on Teacher Credentialing Single Subject link--**. There is currently a two-semester program available. Please visit the Teaching Credentials website (http://www.csus.edu/coe/academics/credentials/) for sequence of courses, time commitment, and other information.

Career Pathways Certificate

Within the Single Subject (Secondary) Teaching Credential program, candidates have the option to pursue a Career Pathways Certificate and can indicate upon admission into the program their desire to pursue the certificate. The Career Pathways Certificate prepares candidates to teach in Career Pathways; these are specialized programs in high schools designed to prepare middle and high school secondary students for both college and career in themed small learning communities connected to the 15 Major California Industries. Numerous high schools in the Sacramento Region offer Career Pathways. Candidates admitted into the certificate program will take the same courses as other Single Subject candidates, but will enroll in the Career Pathways Linked Learning sections. In addition, they will complete an additional two-unit work-based learning field experience course. At the end of the program, candidates will be recommended for a Single Subject teaching credential and will receive the Career Pathways Certificate.

Preliminary Teaching Credentials

As new regulations become mandated by the California Commission on Teacher Credentialing (CTC) and the California Department of Education, requirements for meeting subject matter competency and/or requirements for all preliminary credential programs will be changed to comply with the new requirements. The preliminary credential program is legislated according to the SB 2042 (Preliminary) Credential requirements. For further information, please contact the Academic and Program Services Office in Eureka Hall 401, (916) 278-6639.

Preliminary Teaching Credential Requirements

Completion of the Preliminary Teaching Credential requires that the candidate:

- hold a baccalaureate or higher degree in a field other than professional education from a regionally accredited college or university;
- complete an approved program of teacher preparation, including student teaching;
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the elementary school level, complete either an approved subject matter program or pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for an Education Specialist – Mild/Moderate or Moderate/Severe credential, if the plan is to teach Special Education at the secondary school level, complete either an approved subject matter program in one of the core academic subject areas or pass an approved subject-matter examination in a core academic subject area (CSET: California Subject Examination for Teachers);
- for a Multiple Subject credential, pass the approved subject-matter examination (CSET: California Subject Examination for Teachers, Multiple Subject, Subtests I, II and III);
- for Single Subject, complete either an approved subject matter program or pass the approved subject-matter examination (CSET) in the appropriate teaching area;
- for Single Subject, complete an approved course in the teaching of reading;
- for Multiple Subject, complete an approved course in the teaching of reading and pass the Reading Instruction Competence Assessment (RICA) exam;
- pass a college-level course or examination on the U.S. Constitution; and
- demonstrate California Basic Educational Skills (see subsection below on options available).

Teaching Credentials offers a variety of pathways for completing the Preliminary Credential programs depending on the program:

- a one-year (two-semester) program;
- a three-semester program;

- a two-year (four-semester) program – Education Specialist programs only; part-time options are available which will increase time to program completion

Field experience and student teaching are integral parts of the program leading to Preliminary Credentials. In both the Multiple Subject and Single Subject Teacher Preparation programs, candidates move through the program in cohorts. Full-time Education Specialist candidates follow a tightly-sequenced series of courses. In all teacher preparation programs, candidates complete fieldwork in public schools. All candidates will have experience working with children or youth from a broad range of cultural, ethnic, economic and special learning needs backgrounds.

Program Admission Requirements at a Glance

1. Experiences related to working with children or youth
2. References (2)
3. Essay
4. Official Transcripts from every college/university attended
5. Writing Proficiency
6. Basic Skills Competence (i.e., pass the CBEST)
7. Subject Matter Competence (i.e., pass the CSET)
8. Grade Point Average (GPA) of at least 2.67 overall or 2.75 in last 60 semester or 90 quarter units
9. Complete Credential Prerequisite Courses: EDUC 170, EDUC 100A, EDUC 100B, HLSC 136, and KINS 172 (MS only – equivalent workshop can be taken during the program)
10. Complete the Mandatory Interview

Applications Required at a Glance

- Teaching credentials Supplemental Program Application
- CSU Graduate School Application
- Certificate of Clearance Application (and fingerprint clearance through CTC)

Admission Requirements – General Information Only

Experiences Related to Working with Children or Youth (paid and/or volunteer)

A minimum of 45 hours of experience (closer to 100+ hours if you want to be competitive) with diverse populations is required to be considered for program admission. Possible field experiences can include: classroom instructional aide, tutoring, afterschool program, Peace Corps, camp counseling, child/youth recreation programs, coaching, group-home counseling, church school teaching, etc. Your responses will be evaluated using the following criteria:

- ***Recency:*** Experience needs to be recent – at least within 1-2 years of the application period. You can list all experiences gained on the supplemental application, but regency is key.
- ***Settings:*** Majority of your experiences should be in appropriate settings/schools (**ideally public schools**) with culturally, linguistically, and socioeconomically diverse students of the age group (i.e., elementary school, high school, etc.) or population (i.e., special needs population) you plan to teach. You will list the diversity of your experiences on the supplemental application.
- ***Supervision:*** Has the verifiable experience been gained under supervision? If so, you will need to list names of your supervisors on the supplemental application.

References

Applicants submit two reference forms (included in the supplemental application). Letters of recommendation will not be accepted in lieu of reference forms. ***Only reference forms submitted in sealed envelopes will be accepted.*** It is recommended that one of the references be from a person who has observed the applicant's academic competence (current or former instructor) and the other reference from a person who has observed the applicant working with children or youth. ***NOTE*:** References from family members will not be accepted.

Essay

Discuss a critical, current issue in teaching/education and the relationship of this issue to your motivation to become a teacher in a typed, two-page, double-spaced essay. ***NOTE:*** This prompt is subject to change.

Transcripts

Applicants must provide ***official, sealed transcripts*** from every community college/college/university attended, even if only ONE class was completed. ***Sacramento State students and Sacramento State graduates are exempt, unless coursework was completed at another college after you graduated***.

Writing Proficiency

Satisfying writing proficiency is a program admission requirement. This requirement may be met in one of the following ways:

1. Pass the entire CBEST (must pass the writing portion with a minimum of 37 points); **or**
2. Pass the CSET: Writing Skills Test (*Multiple Subject applicants only*); **or**
3. Meet the graduation writing requirement (GWAR) at any CSU campus; **or**
4. Successfully complete an upper-division advanced English composition course, with a "B" grade or better.

Basic Skills Requirement (BSR)

Satisfying the basic skills requirement is a program admission requirement. Select one of the following options to meet this requirement. For detailed information visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl667.pdf).

1. Pass the California Basic Educational Skills Test (CBEST) – all sections must be taken and passed
2. Pass the CSU Early Assessment Program (EAP)English and Math sections(tests completed in high school)
3. Pass the CSU English Placement Test (EPT) and the Entry Level Math (ELM) Test (For more information, visit the Testing Center website (http://www.csus.edu/testing/))
4. Pass the CSET: Writing Skills Test (available to Multiple Subject applicants only)
5. Pass a basic skills examination from another state

Register online at the CTC Exams website (http://www.ctcexams.nesinc.com). **Take exams no later than February for FALL admission consideration.**

Subject Matter Competence (SMC)

Applicants are required to meet SMC to be considered for admission:

> ***Special Education:*** Applicants holding one of the following types of credentials, may have met the subject matter competency requirement: five-year preliminary, clear, professional clear, or life credential in the following authorizations: Multiple Subject, Single Subject, Standard Elementary, Standard Secondary, General Elementary, or General Secondary. *Applicants who do not hold one of the types of credentials listed above* can meet SMC through one of the following options:

- CSET for Multiple Subjects option or
- Single Subject option (see requirements below)

> ***Multiple Subject:*** All applicants must satisfy SMC by passing the California Subject Examinations for Teachers (CSET): Multiple Subjects subtests I, II, and III. ***NOTE*:** CSET passing scores on all three (3) subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration*.** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).
>
> ***Single Subject***: Applicants may satisfy SMC in ONE of two ways, either (1) by examination **or** (2) by completing an approved undergraduate program of subject matter coursework.

1. **Examination(s)** Take and pass the California Subject Examinations for Teachers (CSET) in your subject area. Be sure to take all required subtests in your teaching area. ***NOTE*:** CSET passing scores on all subtests are required for admission consideration. ***Take exams no later than February for FALL admission consideration*.** Register for tests online at: www.ctcexams.nesinc.com (http://www.ctcexams.nesinc.com/).
2. **Coursework** Complete a California Commission-approved undergraduate academic subject matter preparation (SMP) program from an accredited California college/university.

SMP Coursework Options

- **The Sacramento State Subject Matter Program (SMP)** is a California approved baccalaureate program that prepares individuals for teaching. Sac State students completing a SMP must meet with an approved advisor as soon as possible in order to complete the Subject Matter Competence Verification Form. For a listing of faculty advisors visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/smp-advisor-20160926.pdf).
- **Non-Sacramento State applicants** who completed an approved SMP on a California campus other than Sacramento State must submit verification of completion of the SMP on letterhead stationery of your school, signed by the approved evaluator, instead of using the Subject Matter Competence Verification Form. Check with your College's Credentials office for the approved evaluator.

Grade Point Average (GPA) Required

In order to be considered for admission to a Teaching Credential Program, applicants must have attained a cumulative GPA of at least 2.67 in all baccalaureate and post-baccalaureate course work (if completed) **OR** a GPA of at least 2.75 in the last 60 semester or 90 quarter units attempted.

Pre-requisite Credential Courses – to be completed PRIOR to starting the credential programs:

Code	Title	Units
EDUC 100A	Educating Students with Disabilities in Inclusive Settings	2
EDUC 100B	Educating Students with Disabilities in Inclusive Settings Lab	1
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
HLSC 136		2
KINS 172	Movement Education [1]	3

[1] For MS only. If admitted, an equivalent PE/Health methods workshop can be completed during the credential program.

List of equivalent courses, visit the Teaching Credentials website (http://www.csus.edu/coe/apply/assets/credentials/cred-equivalencies-prereqs-20160712.pdf).

Interview

All applicants must participate in a one-hour group interview as part of the screening process. After the supplemental program application is received by the Department, applicants are notified by email of the interview process and dates.

Applications Required

CSU Graduate School Application for the University:

Applicants not currently attending Sacramento State, Sacramento State graduating seniors, and Sacramento State students completing a master's degree or second bachelor's degree MUST apply for admission to graduate school through the Office of Graduate Studies (OGS) by completing and submitting the CSU application on-line.

Transcripts: Applicants who did not graduate from Sacramento State must submit ***one (1) set of sealed, official transcripts from ALL community colleges/colleges/universities attended, even if only ONE class was completed.*** If you have questions about the University graduate school application process, please contact the OGS at (916) 278-6470.

Foreign degrees: Transcripts from applicants with degrees from outside of the United States must review the information/instructions on the Office of Graduate Studies website (http://www.csus.edu/gradstudies/FutureStudents/ApplicantsWithForeignDocuments/).

NOTE: Foreign transcripts and other supporting documents are usually due much earlier than University and department application deadlines.

Teaching Credentials Program Supplemental Application:

All applicants must submit a supplemental program application packet that includes: a list of experiences related to teaching/working with children/youth, an essay, two completed & sealed reference forms, writing proficiency verification, subject matter competency verification, and basic skills requirement verification (CBEST or other approved verification). **Beginning in OCTOBER every year, the supplemental program applications with instructions/current requirements are available on the** College of Education website **(**http://www.csus.edu/coe/apply/credentials.html**)**. Credential programs only begin in FALL semesters. Complete supplemental applications and all supporting documents must be submitted to the Teaching Credentials by February.

The exact submission deadline date is posted once applications are available on the website.

Certificate of Clearance (COC/Fingerprint Clearance):

ALL applicants must submit verification of having been issued a clearance by the CA Commission on Teacher Credentialing (CTC) before they will be allowed to officially start the credential program.

- Applicants who *have already been issued* a clearance/permit/credential must submit a printout from the CTC website (http://www.ctc.ca.gov) showing the issuance date of a valid CA 30-day emergency permit, a valid CA Child Development Associate/Center permit, a valid CA credential, or a valid Certificate of Clearance.
- Applicants who *have NOT been issued* a clearance/permit/credential must apply for the Certificate of Clearance on the CTC website as well as complete the Live Scan fingerprinting process. Tips for completing the online application and Live Scan process can be found on the CTC website (http://www.ctc.ca.gov/credentials/online-services/pdf/web-app-tips.pdf). Proof of applying for the clearance and completing the Live Scan process MUST be submitted with the supplemental credential program application packet. Include as proof the following: a copy of the 'Payment Receipt' page from the on-line COC application AND a copy of your completed and scanned Live Scan form.
- Once your clearance is issued, you will receive an email from the CTC. Print this email and submit it with your supplemental program application packet. Or, if the email is received after you have submitted your application, submit the email directly to the Teaching Credentials Department in Eureka Hall - 401.

EXCEPTION – it is not necessary to apply for the Certificate of Clearance if you can verify you hold a valid California certificate or credential such as an emergency permit for substitute teaching, Pre-intern certificate, PPS credential, Child Development Associate or Supervisor Permit, Adult Vocational Education credential **OR** if you are applying for a Special Education credential program, verify a valid Multiple or Single Subject credential.

***NOTE*:** If you answered "YES" to any of the Personal and Professional Fitness questions on the Certificate of Clearance application, you will need to obtain the official arrest record and court paperwork regarding each incident. Refer to the CTC website (http://www.ctc.ca.gov/educator-discipline/self-reporting.html) for the instructions, forms, and where to submit all additional paperwork. If you have arrests and/or convictions on your record, once you submit the additional paperwork/documentation to the CTC, the processing of your clearance application can take six months or longer. This means you may not be eligible to start the credential program if your clearance is not issued before the program begins. If you have any questions, contact the CTC directly via email (credentials@ctc.ca.gov).

Additional Information

Verification of Bachelor's Degree

ALL applicants must obtain a bachelor's degree from a regionally accredited college/university in the United States in order to be eligible for a credential. Proof can be obtained through official transcripts and listed as "Degree(s) Awarded" with the date the degree was awarded. To find out if your college/university is regionally accredited by one of the accrediting agencies approved by the California Commission on Teacher Credentialing (CTC), visit the CTC website (http://www.ctc.ca.gov/credentials/accreditation-bodies.html).

Foreign Transcript Evaluation

Individuals who have completed college or university course work at an institution in a country other than the United States must obtain a complete evaluation of foreign transcripts, degrees[1], and other relevant documents prior to applying for a teaching credential program. This evaluation is required by the California Commission on Teacher Credentialing (CCTC). It is recommended that credential program applicants have their documents evaluated by WES (http://www.wes.org/students/), since both the University Office of Graduate Studies and the Commission will accept the WES (http://www.wes.org/students/) evaluation. Applicants should select the **WES INTERNATIONAL CREDENTIAL ADVANTAGE PACKAGE (ICAP) Course by Course Evaluation**. For additional information on foreign transcript evaluations please visit the CTC website (http://www.ctc.ca.gov/credentials/leaflets/cl635.pdf).

[1] The bachelor's degree requirement for California credentials refers to the equivalent of a four-year (or more) college-level program.

Verification of completing the United States Constitution Requirement

California Education Code, Section 44335, requires all candidates for Multiple Subject, Single Subject, and Education Specialist credentials to demonstrate knowledge of the United States Constitution by completing a college-level course with a "C" or equivalent grade or better, or pass a college-level examination in the subject, or verify AP exam credit for American History or American Government/Politics. While this is not a program admission requirement, this requirement must be completed before the credential can be granted at the end of the credential program. Most CSU graduates have met this requirement.

Additional Information for All Admitted Credential Candidates

- Continued Enrollment**: Continued enrollment in a Preliminary Credential Program is contingent upon the candidates maintaining a GPA of 3.0 in all professional education courses**. If incomplete grades or grades of 'D', 'F', and 'NC' (No Credit) are received in professional education courses, the candidate must withdraw from the program unless a specific exception has been approved by the Credential Appeals Committee.
- Delays**:** Candidates who have to delay progress in a Preliminary Credential Program file a 'Program Delay Petition' in the Teaching Credentials Office. A student returning after a delay may be accommodated on a space available basis. Any student on academic probation is subject to automatic disqualification as a Credential candidate.

Appeal Process: A student who has been formally admitted to the program has the right to appeal to the Credential Appeals Committee about any policy affecting program continuation. Appeals petitions and assistance are available in the Teaching Credentials Office

Bilingual Authorization (BA)

The BA is a specialized authorization that authorizes the credential holder to provide instruction in the primary language to candidates with limited English proficiency. This option is available concurrently for all credential candidates with oral and written fluency as well as cultural/historical knowledge of the target group (Spanish or Hmong). Candidates can complete additional requirements to add the Bilingual Authorization in Spanish or Hmong. For additional information on the BA option, contact the College of Education Equity Coordinator, Karina Figueroa-Ramirez

(figueroaramirez@csus.edu), for an advising appointment to review your transcripts.

Prerequisite Requirements

Code	Title	Units
Prerequisite Coursework (8 Units)		
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab	3
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
PUBH 136	School Health Education	2
Total Units		8

Program Requirements

Code	Title	Units
Program Coursework (37 Units)		
EDSS 279A	Method and Materials for Teaching Secondary English Learners, A	1.5
EDSS 279B	Methods and Materials for Teaching Secondary English Learners, B	1.5
EDSS 300	Teaching Performance Assessment-Single Subjects	1
edss 364a		1.5
EDSS 364B	Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop	1.5
EDSS 364C	Advanced Theoretical Foundations of Teaching in a Multicultural Democratic Society, Lecture	1.5
EDSS 364D	Advanced Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop	1.5
EDSS 365A	Fundamentals of Teaching, Lecture	1.5
EDSS 365B	Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop	1.5
edss 365c		1.5
edss 365d		1.5
EDSS 366A	Single Subject Seminar, A	3
edss 366b		3
EDSS 368	Inclusive Education in Secondary Schools	1
EDSS 373		1
EDSS 384A	Instruction and Assessment of Academic Literacy, A	1.5
EDSS 384B	Instruction and Assessment of Academic Literacy, B	1.5
EDSS 474A	Field Experiences in Secondary Schools	3
EDSS 474B	Student Teaching in Secondary Schools	4
Several single subject methods classes split into 1.5 segments (A/B). The exception is KINS 380 and KINS 381 that are both 1.5 unit courses but have different course numbers. Candidates take on 2-course series from the following list of content methods courses:		3
EDSS 383A & EDSS 383B	Methods in English Education, A Methods in English Education, B	
EDSS 385A & EDSS 385B	Methods in World Language Education, A Methods in World Language Education, B	
EDSS 386A & EDSS 386B	Methods in Mathematics Education, A Methods in Mathematics Education, B	
EDSS 387A & EDSS 387B	Methods in History/Social Science Education, A Methods in History/Social Science Education, B	
EDSS 388A & EDSS 388B	Methods in Science Education, A Methods in Science Education, B	
KINS 380 & KINS 381	Methods of Teaching Elementary Physical Education Methods of Teaching Secondary Physical Education	
Other single subject methods courses remain 3 units. Candidates in these subject areas take one course from the following list of content methods courses in accordance with their subject area:		
MUSC 178	Vocal Literature and Materials (Grades 4-12)	
or MUSC 179	Instrumental Literature and Materials	
ART 135	Overview of Secondary Art Education	
or ART 133	Art Education for Children	
FACS 299		
Total Units		37

Note: An undergraduate blended program leading to a Single Subject Credential in Mathematics is also available. For further information about the Mathematics Blended Program, contact: Dr. Elaine Kasimatis.

Career Pathways Certificate

Code	Title	Units
EDSS 364E		
EDSS 364F	Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop-Linked Learning	1
EDSS 365E	Fundamentals of Teaching, Workshop - Linked Learning	1.5
EDSS 365F		
EDSS 279A	Method and Materials for Teaching Secondary English Learners, A	1.5
EDSS 279B	Methods and Materials for Teaching Secondary English Learners, B	1.5
EDSS 373A	Educational Technology Lab I	1
EDSS 366C	Single Subject Seminar, C	3
EDSS 366D		
EDSS 440	Work-Based Learning Field Experience	2
Total Units		11.5

Undergraduate Studies in Education

Program Descriptions

Child and Adolescent Development (https://www.csus.edu/college/education/undergraduate/child-development.html)

Child and Adolescent Development is the study of physical, socio-emotional, and cognitive growth and development from conception through emerging adulthood. Child and Adolescent Development programs provide rigorous academic study of theory, empirical research, and practice, and prepare students to work as agents of social change with diverse populations of children, adolescents, emerging adults, and families. Program graduates engage in education, advocacy, policy

development, and research in a variety of educational and community settings.

Students working toward the Child and Adolescent Development BA degree may select one of five concentrations: Early Development, Care and Education (EDCE), Individualized, Elementary Pre-Credential, Social and Community Settings, and Integrated Pre-Credential Subject Matter Program. Bachelor of Arts students pursue careers in elementary school teaching, preschool teaching and administration, child-care and after-school employment, parent education, or work in social service and community agencies. The undergraduate major also prepares students for graduate studies in child and adolescent development, elementary or special education, human development, and social work or counseling.

The Master of Arts in Child Development (https://www.csus.edu/college/education/masters-programs/child-development.html) program offers opportunity for the advanced study of developmental theory and research in pursuit of a wide range of professional objectives. The program emphasizes scholarly reflection on developmental issues and academic excellence in oral and written communication, and prepares graduates for work with infants, children, adolescents, and their families in a variety of settings. Child Development MA students pursue careers in program administration, parent education, research, community college instruction, and work in counseling, social service, non-profit and community agencies. The MA also prepares students for additional study toward a doctoral degree in child development, developmental psychology, or related field.

Deaf Studies (https://www.csus.edu/college/education/undergraduate/deaf-studies.html)

Deaf Studies takes an interdisciplinary, deaf-centric approach to the study of deaf and hard-of-hearing people in American and global societies. The major and minor programs promote understanding of deaf individuals as members of diverse sociolinguistic groups with distinct cultures, traditions, literatures, and languages. Students will develop skills in analyzing stereotypes and policies around deaf people, which may allow them to work within this population and in their communities to affect and support deaf equity.

With a Deaf Studies Major, students will be prepared to undertake further training in order to enter the fields of interpreting, education, or other specialized fields working with deaf consumers. This degree is not meant to be a substitute for these types of programs, but a bridge toward them.

With an ASL and Deaf Studies Minor, students may obtain entry-level jobs in settings working with Deaf individuals such as residential supervisor, classroom aide, vocational trainer, and much more. Students may also combine an ASL and Deaf Studies Minor with a related major field of study such as education, counseling, audiology and speech therapy for a more well-rounded grounding in deaf and hard-of-hearing issues in their field. Students in fields which are not specifically deaf-related such as nursing, law, computer engineering, and many more may also experience an edge in gaining employment anywhere, with a minor in ASL and Deaf Studies compared to those without similar coursework or experience.

Further, students having completed the Deaf Studies Major and Minor may be able to waive similar coursework at other universities with specialized fields of study centered on deaf and hard-of-hearing people that may not be offered in the Sacramento region.

Career and Technical Studies (https://www.cce.csus.edu/bscts/)

Offered through a partnership between the College of Continuing Education and the College of Education, the Bachelor of Science in Career and Technical Studies (BSCTS) is an online degree completion program designed to prepare working adults with practical, marketable skills to successfully enter new careers or advance in their current fields.The program uses instructional techniques suited to adult learners, including real world instruction and personalized academic advising, and offers networking opportunities and accelerated programming.The program is versatile and can be applied to a a variety of disciplines.The degree can serve as a springboard to a master's degree or as a career ladder into many professions.

Degree Programs

BA in Child and Adolescent Development (Early Development, Care, and Education) (p. 534)

BA in Child and Adolescent Development (Elementary Pre-Credential) (p. 536)

BA in Child and Adolescent Development (Individualized) (p. 538)

BA in Child and Adolescent Development (Social and Community Settings) (p. 540)

BA in Child Development (Integrated Pre-Credential Subject Matter Program) (p. 539)

BS in Career and Technical Studies (p. 543)

BA in Deaf Studies (p. 542)

Minor in American Sign Language/Deaf Studies (p. 545)

Minor in Child Development (p. 546)

Minor in Counseling (p. 547)

Minor in Teacher Education (Teaching, Equity, and Engagement) (p. 547)

MA in Child Development (p. 544)

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Contact Information

Sheri E. Hembree, Chair, Undergraduate Studies in Education
Ryanne Green, Administrative Support Coordinator II

Sierra Staplin, Administrative Support Coordinator II
Eureka Hall 401; (916) 278-6639
Undergraduate Studies in Education Website (https://www.csus.edu/college/education/undergraduate/)

Sherrie Carinci, BSCTS Faculty Coordinator
(916) 278-3496

Faculty

ALEXANDER, KRISTEN

BEDDOW, MARGARET

BERSOLA-NUGYEN, IRENE

CANTRELL, LISA

CARINCI, SHERRIE

ELLIS, BASIA

FERREIRA VAN LEER, KEVIN

FLORES, ALMA

GARCIA-NEVAREZ, ANA

GONZALEZ, AMBER

GORDON BIDDLE, KIMBERLY

GRUSHKIN, DONALD

GRUSHKIN, DONALD

HECSH, JANET I.

HEMBREE, SHERI E.

HIBBARD, EVAN

HOBBS, SUE

LAMBATING, JULITA G.

LESLIE, ANGELA

NOEL, JANA

O'HARA, KAREN

PIENG, PATRICK

PIERCE, NATALIE

RAYMAN, JENNIFER

SESSOMS, DEIDRE B.

STONE, LYNDA D.

SUN, LI-LING

VA, KA

VICARS, WILLIAM

WILBER, PAMELA

ZARCHY, LEAH

CHDV 23. Assessment and Observation in Child Development. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or equivalent
Purposes of and methodological issues involved in assessing and observing early child development and learning in educational and developmental settings. Topics include selection of appropriate observation methods, survey of standardized measures, ethics, and interpretation and implications of assessment data for teaching and learning. Focus will be on becoming objective and unbiased observers, use of both informal and formal assessment tools, and principles of observational assessment research. Students will be required to complete up to 10 hours of observation outside of class. APA style will be introduced to support the development of practical and scholarly communication and writing.

CHDV 30. Human Development. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Interdisciplinary study of human development with practical observations. Addresses physical, socio-cultural, intellectual and emotional aspects of growth and development from conception to death. A variety of field experiences will be required.

CHDV 31. Adult Supervision and Mentoring In Early Childhood Programs. 2 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.
Term Typically Offered: Spring only

Study of research and exemplary practices in the supervision of early childhood teachers, other program staff, parents and volunteers. Content emphasizes adult learning.

CHDV 32. Administration and Supervision of Early Childhood Programs. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.
Term Typically Offered: Fall only

Basic issues, procedures and practices in the administration and supervision of public and private schools. Requires administrative supervisory fieldwork in an early childhood program.

CHDV 35. Child and Adolescent Development. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Examination of theory and research on cognitive, social and physical human development from conception through adolescence. Content will include data-collection techniques such as observation. Some course material will be applied to an analysis of elementary schooling.

CHDV 35F. Human Development and Elementary Field Experience. 2 Units

Corequisite(s): CHDV 35 may be taken concurrently.
Term Typically Offered: Fall, Spring

Directed field experiences in elementary school settings. Students are required to work at an elementary school and attend an on campus seminar. Includes the integration of student field experiences with theory and research in Human Development. Issues in learning, social development, adult career selection and schooling will be explored.
Note: Fieldwork includes 40 hours of service-learning at approved sites that are primarily off campus; students must complete clearance process (fingerprinting, TB tests) prior to placement.

Credit/No Credit

CHDV 44. Community Service Learning in Developmental and Educational Settings. 1 - 3 Units
Term Typically Offered: Fall, Spring

Designed to provide a range of service learning experiences where students apply their academic knowledge and skills in community-based settings. The community-based experiences will be combined with classroom activities designed to develop student understanding of topics related to their service activities such as tutoring reading and math, mentoring students from disadvantaged backgrounds, working with special populations of children.
Note: May be taken up to four times for credit (maximum 12 units of credit).

Credit/No Credit

CHDV 123. Qualitative Methods in Human Development. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or equivalent
Term Typically Offered: Fall, Spring

Introduction to qualitative research methods and their philosophical underpinnings. The focus will be on theoretical, methodological, and ethical issues in studying human learning and developmental processes from interpretive and social constructivist perspectives. Attention given to methodological strategies used to document and analyze learning and development in context. Strategies include participant-observation field notes, interviews, audio/video recordings, documents, and artifacts, with implications for theory, policy, and practice. APA style will be introduced to support the development of scholarly communication and writing.
Note: For CHDV majors, must be taken prior to completion of 90 units; completion of 45 total units credit.

CHDV 128. Combined Research Methods in Human Development. 3 Units

Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.
Term Typically Offered: Fall, Spring, Summer

Introduction to qualitative and quantitative research methods and their philosophical underpinnings. Consider theoretical, methodological, and ethical issues in studying learning and developmental processes from interpretive and social constructivist perspectives. Think critically about the generation of research questions and hypotheses and design and conduct of research inquiry, with implications for theory, policy, and practice. Students learn to locate, understand, critique, conduct, and report research findings from multiple approaches and be introduced to APA style writing as a tool for scholarly communication.

CHDV 130. Parent Education. 3 Units
Term Typically Offered: Fall, Spring

Ways parent education may be conducted in Child Development programs to meet legislated requirements as well as parent needs. Attention will be given to parent education programs which serve children of different ages, diverse language and cultural backgrounds, and children with special needs. The rights and responsibilities of children, parents and teachers will be discussed. Discussion and participation in such classroom activities as panels, presentations, demonstrations and cooperative learning assignments.

CHDV 131. Language Development. 3 Units
Prerequisite(s): CHDV 133. CHDV 133 may be taken concurrently.
Term Typically Offered: Fall, Spring

Investigation of the development of language and its relationship to school learning, cognitive development and social development. Both linguistic and communication competence are included. Specific attention to second language acquisition and principles underlying effective instruction in linguistically diverse children.
Note: Topic areas will vary by semester, and the course may be repeated.

CHDV 132. Fieldwork in Child Development. 3 Units
Prerequisite(s): CHDV 123
Term Typically Offered: Fall, Spring

Directed field experiences in settings selected to meet students' experience and needs. Students are required to work at the selected setting and attend an on-campus seminar to explore developmental content and issues. Discussion will also focus on attention to professional development and ethics in community and educational settings working with children and families.
Note: Fieldwork includes 40 hours of service-learning at approved sites that are primarily off campus; students must complete clearance process (fingerprinting, TB tests) prior to placement; may be taken as a core requirement and repeated as an elective.

CHDV 133. Quantitative Methods in Human Development. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or equivalent
Term Typically Offered: Fall, Spring

Introduction to quantitative research methods in human development and their philosophical underpinnings. Major topics include the structures, design and conduct of research inquiry, and the generation of research questions and hypotheses, and collection of data. Emphasis will also be on engaging in quantitative research as well as increasing students' ability to locate, understand, critique, and report research findings. Students will be challenged to think critically about methodological issues in quantitative research. AP A style will be introduced to support the development of scholarly communication and writing.
Note: For CHDV majors, must be taken prior to completion of 90 units; completion of 45 total units credit.

CHDV 134. Development of Young Children as Mathematical and Scientific Thinkers. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.
Term Typically Offered: Summer only

Theory, research, and practice in development of the child's thinking about mathematical and scientific concepts. Topics will include: (a) early emergence of conceptual reasoning connected with mathematics and science, (b) symbolic development and language of mathematics and science, (c) developmental sequences in mathematical and scientific thinking, (d) California Preschool Learning Foundations; (e) age-appropriate and culturally-relevant experiences to promote mathematic and scientific reasoning. Activities include lecture, discussions, presentations, cooperative learning assignments, and integration of course content with early childhood classroom practice.

CHDV 135. Crosscultural Child Development. 3 Units
Prerequisite(s): CHDV 133. CHDV 133 may be taken concurrently.
Term Typically Offered: Fall, Spring

Examination of the physical, socio-emotional and cognitive development in children from a crosscultural orientation. Will investigate cultural variables that influence child development from both inter- and intranational perspectives. Discussion of culturally universal and culturally specific behaviors, cognitions and experiences will be covered.

CHDV 136. Developmental Experiences, Methods and Curriculum. 3 Units
Prerequisite(s): CHDV 123. CHDV 123 may be taken concurrently.
Term Typically Offered: Fall, Spring

Examination of theory, research, and exemplary practices and programs for children through elementary school. Activities include discussions, presentations, demonstrations and cooperative learning assignments.

CHDV 137. Cognitive Development. 3 Units
Prerequisite(s): CHDV 133.
Corequisite(s): CHDV 137L.
Term Typically Offered: Fall, Spring

Cognitive development of children from conception through adolescence with consideration of biological and environmental influences. Lectures, discussions and participation in such classroom activities as presentations, demonstrations and cooperative learning assignments.
Note: Student must co-enroll in the corresponding section of CHDV 137L.

CHDV 137L. Cognitive Development Research Laboratory. 1 Unit
Prerequisite(s): CHDV 133.
Corequisite(s): CHDV 137.
Term Typically Offered: Fall, Spring

Laboratory course to complement CHDV 137. Emphasis placed on the observation, interaction, documentation, and using a scientific approach to learn about cognitive development. Classroom, field, and research experiences supporting the study of cognitive development.
Note: Student must co-enroll in the corresponding section of CHDV 137.

CHDV 138. Social and Emotional Development. 3 Units
Prerequisite(s): CHDV 133.
Corequisite(s): CHDV 138L.
Term Typically Offered: Fall, Spring

Study of the social and emotional development of children from conception through adolescence with consideration of biological and environmental influences. Lectures, discussions and participation in such classroom activities as presentations, demonstrations and cooperative learning assignments.
Note: Student must co-enroll in the corresponding section of CHDV 138L.

CHDV 138L. Social and Emotional Development Laboratory. 1 Unit
Prerequisite(s): CHDV 133.
Corequisite(s): CHDV 138.
Term Typically Offered: Fall, Spring

Laboratory course to complement CHDV 138. Emphasis placed on the nature of observation, interaction, and using a scientific approach to learn about social and emotional development. Classroom and field experiences related to the study of social and emotional development.
Note: Student must co-enroll in the corresponding section of CHDV 138.

CHDV 139. Educational Play: Theory and Practice. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent
Term Typically Offered: Summer only

Use of play as an educational vehicle in early childhood. Discovering how play helps children develop physically, socially, emotionally, cognitively and creatively through a variety of playful modes. Constructing appropriate developmental play materials and activities with emphasis on the active role of the adult in child's play. Activities include discussions, presentations, demonstrations and cooperative learning assignments.

CHDV 140. Coordination of Early Childhood Programs. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent
Term Typically Offered: Fall, Spring

Advanced methodology of coordinating early childhood programs, to include organization, staff development and community relations. Includes the functions of parents, aides, volunteers and varied early childhood organizational patterns.

CHDV 141. History of Childhood: International and Interdisciplinary Perspectives. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examination of what it means to be a child in today's world by comparing social constructions of childhood across the broad historical periods and in contrasting parts of the world. Exploration of cultural beliefs, values and practices of childhood in different historical, social, and economic contexts. Comparative approach provides a critical framework from which to analyze scholarly inquiry about how children develop in families, schools, and broader society. Course content will interest students from a broad array of majors.

CHDV 143. Mind and Brain in Developmental Context. 3 Units
Prerequisite(s): CHDV 30 or 35; Introductory Biology.
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring, Summer

Investigation of the biological processes underlying child development, from conception through adolescence. Emphasis will be on the genetic, neurological, and endocrine processes related to cognition, social, and emotional development. Students will explore the bidirectional nature of psychobiological processes, with specific emphasis on the psychobiological mechanisms underlying the transaction between cultural, educational, and social-emotional related to educational, and mental and physical health functioning.

CHDV 144. Community Service Learning in Developmental and Educational Settings. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Designed to provide a range of service learning experiences where students apply their academic knowledge and skills in community-based settings. The community-based experiences will be combined with classroom activities designed to develop student understanding of topics related to their service activities such as tutoring reading and math, mentoring students from disadvantaged backgrounds, working with special populations of children.
Note: May be taken up to four times for credit (maximum 12 units of credit).

Credit/No Credit

CHDV 145. Controversial Issues in Childhood Development, Education, and Social Policy. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Discussion-based examination of controversial issues linking development, education, and cultural practice in which scholarly inquiry has substantial implications for social policy. Specific topics vary by semester and include topics of both historical relevance and contemporary debates. Content relevant to multiple disciplines including issues such as adolescent risk behavior, bilingual education, brain-base pedagogy, child care, children and the law, cultural diversity, developmental theory and educational practice, gender, literacy practices, motivation, parenting styles, school violence, special education, standardized testing, and technological change.

CHDV 150A. Early Literacy Development in First and Second Language. 2 Units
Prerequisite(s): CHDV 123 or CHDV 133. CHDV 123 or CHDV 133 may be taken concurrently.
Corequisite(s): CHDV 150B.
Term Typically Offered: Summer only

Students will become familiar with language and emergent litercy of young children from birth to eight. An overview of research-based developmental progression will be emphasized as it relates to the learning foundations for language and literacy. Other focal points will be home-school connections and cultural influences on literary development. Assessment topics, including observation and other developmental strategies will be intergrated. An emphasis on increasing students' ability to connect theoretical understanding to the practice offered in CHDV 150B.

CHDV 150B. Early Literacy Development in First and Second Language Practicum. 1 Unit
Prerequisite(s): CHDV 123 or CHDV 133. CHDV 123 or CHDV 133 may be taken concurrently.
Corequisite(s): CHDV 150B.
Term Typically Offered: Summer only

The practicum experience (20 hours) will provide students with the application of course content material learned in CHDV 150A. Students will observe and validate multiple experiences in which first and second language learners learn language and literacy succesfully. Factors affecting language and literacy development will be addressed.
Credit/No Credit

CHDV 153. Apprenticeship in Advanced Child Development. 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Faculty mentors will meet with graduate and undergraduate apprentices individually or in small groups for guided discussions of assigned readings and/or research data analysis/collection endeavors.
Prerequisite: Instructor permission.
Note: Readings will depend on the specific mentor's research or scholarly interest; May be repeated up to four times for 12 units of credit, with a limit of 6 units applied towards the CHDV major requirements.

CHDV 154. Issues in Parenting. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or FACS 52.
Term Typically Offered: Fall, Spring, Summer

Survey of historical and contemporary attitudes toward parenting. Review of research on child-rearing and parent-child relationships. Use of case studies to explore the influence of personality, developmental stage, family structure, ethnic and cultural factors on parenting. Lecture, Case Study.
Cross-listed: FACS 154; only one may be counted for credit.

CHDV 157. Infant and Toddler: Development and Care. 3 Units
Prerequisite(s): One of the following: CHDV 30 or CHDV 35, FACS 50, PSYC 148, or SWRK 125A.
Term Typically Offered: Fall, Spring

Research theory and practice are examined in relation to each area of infant and toddler development (conception through 24 months): Physical, social, emotional, cognitive, and perceptual. Individual differences and needs are stressed. Issues pertinent to individual and group care will be covered. Activities include lecture, discussion, and observations.
Cross Listed: FACS 157; only one may be counted for credit.

CHDV 194. Cooperative Education Experience. 3 Units
Prerequisite(s): Completion of 60 units total credit and instructor permission. May be taken four times for a maximum of 12 units credit.
Term Typically Offered: Fall, Spring

Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in the student's major field of study and academic credit. Students receive supervised employment in school districts, state and community agencies, companies and other appropriate settings. Requires regular meetings with faculty supervisor, completion of field study assignment, evaluation by field-based supervisor, and a written final report.
Credit/No Credit

CHDV 196A. Approaches to Research Methods in Child Development A. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent; completion of 45 total units; Must be taken prior to completion of 90 units.
Term Typically Offered: Fall, Spring

This course examines methodological issues involved in assessment, observation, analysis, and design in the field of child development. Topics include the research process. APA style writing, ethics, design and methods, use assessment tools, qualitative and quantitative data analysis and interpretation. The focus will be on becoming critical consumers of research and developing the skills of scientific injury.
Note: First course in a series. 196B must be taken in the semester immediately following completion of CHDV 196A.

CHDV 196B. Approaches to Research Methods in Child Development B. 3 Units
Prerequisite(s): CHDV 196A.
Term Typically Offered: Fall, Spring

Two semester sequence of instruction that examines methodological issues involved in assessment, observation, research design, and analytical concepts involved in the field of child and adolescent development. Topics include the research process, APA style writing, ethics, design and methods, use assessment tools, qualitative and quantitative data analysis and interpretation. The focus will be on becoming critical consumers of research and developing the skills for scientific inquiry.
Note: Must be taken prior to 90 units.

CHDV 196U. Child and Adolescent Development in Context. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 (or equivalent).
Term Typically Offered: Fall, Spring

Investigation of the dynamic nature of child and adolescent development in the context of families, schools, and community. Students will gain an understanding of how issues in these contexts influence development and explore the dynamic relationships between contexts in promoting development. Attention will be paid to socioeconomic status as a context as well as the role of gender, race and ethnicity within contexts as they relate to development. Students will examine practices that strengthen collaboration between families, schools and community.

CHDV 196X. Guided Human Development Experience Around the World. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35, and 2.75 GPA, or instructor permission. Field trip.
Term Typically Offered: Summer only

Course provides a range of guided learning experiences outside the United States, allowing students to experience human development more broadly to promote a global perspective. Experiences include, but are not limited to, observation, fieldwork, data gathering, or other modes of interaction with the people and culture in the country. Students will reflect on experiences in writing and in discussion in light of readings on developmental theory and research.
Note: Course is credit/no credit. It may be taken twice with different instructors.

Credit/No Credit

CHDV 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects designed especially for students capable of independent study. Admission by written approval of the instructor and Department Chair.
Credit/No Credit

CHDV 200. Proseminar in Child Development. 3 Units
Prerequisite(s): Admission to MA Child Development program or instructor permission.
Term Typically Offered: Fall only

Orientation to advanced scholarship in human development with a focus on understanding and evaluating current directions in developmental research. Developmental research methods and analytical strategies will be explored.

CHDV 210. Seminar in Social Development. 3 Units
Term Typically Offered: Fall, Spring

Advanced seminar focusing on theoretical and empirical readings covering topics in social/emotional development. Potential topics may include social and emotional development of children from conception through adolescence with consideration of biological and environmental influences.

CHDV 211. Seminar in Cognitive Development. 3 Units
Prerequisite(s): Admission to MA program or instructor permission.
Term Typically Offered: Fall, Spring

Advanced developmental seminar focusing on theoretical and empirical readings covering topics in cognitive development. Specific topics will be related to cognitive development of children from conception through adolescence with consideration of biological and environmental influences.

CHDV 242. Theoretical Approaches to Development. 3 Units
Prerequisite(s): CHDV 137 or CHDV 138. Graduate standing or instructor permission.
Term Typically Offered: Fall only

An in-depth examination of theoretical approaches to various domains of human development. Content includes current and historical developmental theory and application of theory to developmental research. Critical thinking skills and scholarly writing will be emphasized.
Note: Graduate Writing Intensive course

CHDV 244. Community Service Learning in Developmental and Educational Settings. 1 - 3 Units
Term Typically Offered: Fall, Spring

Designed to provide a range of service learning experiences where students apply their academic knowledge and skills in community-based settings. The community-based experiences will be combined with classroom activities designed to develop student understanding of topics related to their service activities such as tutoring reading and math, mentoring students from disadvantaged backgrounds, working with special populations of children.
Note: May be taken up to four times for credit (maximum 12 units of credit).

Credit/No Credit

CHDV 245. Selected Topics in Developmental Theory. 3 - 6 Units
Prerequisite(s): Admission to MA program or instructor permission.
Term Typically Offered: Fall, Spring

In-depth study of selected topics in human development. Topics vary with each offering. Content includes theory and research on psychological dimensions of human development in various educational and community settings. May be repeated once for credit with different instructor.
Note: May be repeated twice as long as topics and instructors differ.

CHDV 246. Motivation and Learning in Children. 3 Units
Prerequisite(s): Graduate standing, or instructor permission.
Term Typically Offered: Fall, Spring

Sources of and developmental changes in motivation, including biological predispositions, critical life events, individual differences, and social, cultural and educational experiences will be examined. Students will participate in a group research effort on motivation and educational practice.

CHDV 247. Theoretical and Applied Perspectives on Cross-cultural Development. 3 Units
Prerequisite(s): CHDV 200 or instructor permission. CHDV 200 may be taken concurrently.
Term Typically Offered: Fall, Spring

The cultural basis of human development through an in-depth examination of the socio-emotional, cognitive, language and gender development of children from infancy through adolescence within and across different cultures and communities. Theory, methods, and research of cross-cultural investigations will be considered and applications of course material to educational and community settings will be explored and analyzed.

CHDV 248. Curriculum and Instruction. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Spring

Advanced study of the sociocultural influences on curriculum development. Research, theory, and curricular practices will be analyzed, evaluated and applied to a variety of preschool and primary grade settings.

CHDV 249. Language Processes in Development. 3 Units
Prerequisite(s): Admission to MA program or instructor permission.
Term Typically Offered: Fall, Spring

Language is an important cognitive and communicative tool that promotes learning. Through an integrative approach to language and cognitive development, students will examine how children learn through language. Students will have practical experience in collecting and analyzing children's language learning in educational settings.

CHDV 250. Quantitative Research Methods. 3 Units
Prerequisite(s): CHDV 133; admission to the MA program or instructor permission.
Term Typically Offered: Fall, Spring

Critical analysis of quantitative research methods used in the study of development. Core issues in studying development will be discussed as they relate to families and societal issues. Major topics include the philosophical underpinnings of research design, various research methods of inquiry, ethical issues, and the development of research questions and data collection. Critical thinking and writing skills will be emphasized.

CHDV 253. Apprenticeship in Advanced Child Development. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Faculty mentors will meet with graduate and undergraduate apprentices individually or in small groups for guided discussions of assigned readings and/or research data analysis/collection endeavors.
Note: Readings will depend on the specific mentor's research or scholarly interest; May be repeated up to 4 times for credit.

CHDV 258. Qualitative Research Methods. 3 Units
Term Typically Offered: Fall, Spring

Introduction to qualitative research methods for the study of learning and development. Includes: a) discussions of theoretical perspectives underlying this methodological approach; b) techniques for and issues in gathering, analyzing, and recording qualitative data; and c) strategies for using and reporting qualitative data. Students will write initial thesis/project design and human subjects proposal for formal approval.

CHDV 290. Seminar for Culminating Experience. 3 Units
Prerequisite(s): Advancement to candidacy; completion of at least 20 units of course work towards the MA, instructor permission.
Term Typically Offered: Fall, Spring

Seminar to focus on topics/elements/expectations to be included in the culminating experience: defining and narrowing a topic for study; abstract writing; differentiation of primary/secondary source of evidence; development of organizational schemes for a literature review; database literature searches; APA format requirements; time management, range and breadth of evidence for a comprehensive review; connecting the review and project/thesis; writing style and quality; revisions and critical feedback; social/psychological dimensions of thesis/project process; data analysis and statistics help on campus for thesis.
Credit/No Credit

CHDV 292. Culminating Seminar for Exam Option. 3 Units
Prerequisite(s): Completion of all foundation course requirements for MA program (CHDV 200A, CHDV 200B, CHDV 242, CHDV 247, CHDV 250) advancement to candidacy, or instructor permission.
Term Typically Offered: Fall, Spring

Seminar to focus on topics/elements/expectations for the exam option culminating experience: test preparation and tips, exam writing, practice exam questions, time management, and community building with other students. Students will complete reading and writing assignments related to each exam area and prepare for an exam question related to an approved elective topic of their choice. Students will submit an exam petition to be reviewed and approved by the departmental exam committee.
Credit/No Credit

CHDV 295. Practicum in Child Development. 1 - 3 Units
Prerequisite(s): Graduate standing, or instructor permission.
Term Typically Offered: Fall, Spring

Directed field based experience in preschool, elementary or other community based settings serving children from infancy through adolescence and their families. Designed to provide students the opportunity to develop professional skills and understandings in applied settings or explore career development opportunities with particular emphasis on leadership or administrative skills and knowledge.
Note: Students are required to work at an instructor-approved field site consistent with their career goals and interests and attend an on campus seminar.

CHDV 299. Special Problems. 1 - 3 Units
Prerequisite(s): Open only to upper division and graduate students with consent of faculty advisor and Department Chair.
Term Typically Offered: Fall, Spring

Individual projects at graduate level designed especially for students capable of independent study. Departmental petition, signed by instructor with whom student will be working and department chair, required.
Credit/No Credit

CHDV 504. Culminating Experience in Child Development: Thesis or Project. 3 Units
Prerequisite(s): Admission to MA, Child Development program or instructor permission.
Term Typically Offered: Fall, Spring

Guidance toward completion of thesis or project option for the MA, Child Development program. Credit is given upon successful completion of a thesis, project, or other approved culminating experience. Open only to the graduate student who has been advanced to candidacy for the Master's degree and has secured the permission of his/her faculty advisor and the Department Chair one full semester prior to registration.

CHDV 505. Culminating Experience in Child Development: Exam Option. 3 Units
Prerequisite(s): Admission to and completion of all course requirements for the MA, Child Development program, CHDV 292 or instructor permission.
Term Typically Offered: Fall, Spring

Guidance in ongoing preparation for the examination option for the MA, Child Development program. Credit is given upon successful completion of the examination option for the culminating experience. Open only to the graduate student who has completed all other course requirements, has been advanced to candidacy for the Master's degree, and has secured the permission of the Department Chair one full semester prior to registration.
Credit/No Credit

DEAF 51. American Sign Language 1. 4 Units
Term Typically Offered: Fall, Spring

Students will learn basic vocabulary and grammar of American Sign Language. Upon completion of this course, students will be able to exchange basic information about themselves and their families such as their names, where they live, and their interests. Through out-of-class readings, in-class discussions and demonstrations, and experiences within the deaf community, students are exposed to elements of the deaf culture and community.

DEAF 52. American Sign Language 2. 4 Units
Prerequisite(s): DEAF 51 or equivalent.
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Students will continue to expand vocabulary and concepts acquired in DEAF 51. Expansion of conversational range includes talking about other people and activities, giving directions, and making requests. Students develop discourse skills appropriate for establishing connections with deaf acquaintances and handling a variety of interruptions. Through in-class discussions/demonstrations, course readings, and out-of-class field experience, students are exposed to elements of the deaf culture and community.
Note: Taught in ASL without voice.

DEAF 53. American Sign Language 3. 4 Units
Prerequisite(s): EDS 52 or equivalent.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Students will expand communicative repertoire developed in DEAF 52 to talk about people and places in a contextually-reduced framework. Students learn to describe places, objects, and events. Students develop basic narrative skills to tell about past events. Through in-class discussions/demonstrations, course readings, and out-of-class field experience, students are exposed to elements of the deaf community and culture.
Note: Taught in ASL without voice.

DEAF 56. ASL Fingerspelling and Numbers. 1 Unit
Prerequisite(s): DEAF 52
Term Typically Offered: Fall, Spring

Students will develop increased fluency in their expressive and receptive abilities in fingerspelling through in-class practice and viewing of videotaped narratives. Students will also reinforce their abilities to utilize ASL numbering systems for time, money, measurements, and game scores, amount others.

DEAF 57. ASL Classifiers. 2 Units
Prerequisite(s): DEAF 53; may be taken concurrently
Term Typically Offered: Fall, Spring

Students will develop increased understanding of the types and uses of classifiers in ASL and develop further abilities to utilize this component of ASL in their expressive and receptive signing abilities through in-class practice, viewing of videotaped narratives, and individual practice outside of class.

DEAF 60. Introduction to Deaf Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Course introduces students to topics central to the deaf and deaf community, including audiology, education, culture, and history. Utilizing readings, lectures and group discussion, students will learn about the anatomy and causes of deafness, early intervention and education of deaf children, communication strategies and their effectiveness, the deaf as a cultural group and deaf/hearing relationships. Upon course completion, students will understand deaf individuals and their community in a holistic perspective and apply this knowledge toward further studies into the deaf culture and community.

DEAF 154. American Sign Language 4. 4 Units
Prerequisite(s): DEAF 53
Term Typically Offered: Fall, Spring

Principles, methods and techniques of manual communication with deaf people using American Sign Language. Emphasis on the continuation of developing advanced manual communication skills with a focus on techniques for informing others of factual information and instruction about rules and methods for students who will work or interact with adult deaf persons. Continuation of the analysis of the culture of deafness with emphasis on participation in the community.
Note: Taught in ASL without voice.

DEAF 155. American Sign Language 5. 4 Units
Prerequisite(s): DEAF 154 or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Students will build upon communicative skills developed in EDS 154 to develop and expand on their abilities to discuss parts of the body and health conditions, tell a personal narrative about themselves and moments in theirs and others' lives, as well as to retell and translate simple stories into ASL.

DEAF 161. Deaf History. 3 Units
Prerequisite(s): DEAF 60, DEAF 154
Term Typically Offered: Fall, Spring

An overview of the education of the deaf from prehistoric times to the present will be provided. Roots of current trends and events in deaf education will be explored, with projections for the future. Current issues such as mainstreaming, cochlear implants, communication modalities for instruction and others are discussed in both a historical context and from a deaf perspective.

DEAF 162. Deaf Culture and Community. 3 Units
Prerequisite(s): DEAF 60, DEAF 154
Term Typically Offered: Fall, Spring

Course introduces students to deaf people as a cultural and linguistic minority in America through coverage of sociolinguistic, anthropological, and historic issues in the development of deaf culture and community in America and worldwide. Utilizing readings, lectures and group discussion, topics will include: theories of culture; language use; cross-cultural interaction and intercultural processes, and deaf literature and art. Upon course completion, students will understand current and past educational, legal and medical policies and their impact on deaf and hard-of-hearing people.

DEAF 163. ASL Literature. 3 Units
Prerequisite(s): DEAF 154
Term Typically Offered: Fall, Spring

Students will learn several different forms of ASL literature. Aspects of both form and content will be analyzed as well as their role in the preservation and circulation of Deaf cultural forms.Students will also learn to perform narratives and/or poems in ASL. They will understand the effects of genre, style, perspective, and other artistic techniques on ASL signed art performances, and utilize similar techniques in their developed performances. Students may perform their stories for a general audience.
Note: Course taught in ASL with No Voice.

DEAF 164. Sign Language Structure and Usage. 3 Units
Prerequisite(s): DEAF 154 or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Examines origins and linguistic structure of American Sign Language (ASL). Cross-linguistic comparisons with spoken and signed languages of other countries will be made. Students will learn aspects of ASL phonology, morphology and syntax. Sociolinguistic aspects of ASL usage in regard to gender, ethnicity, geographical region and educational status will be discussed. Conducted entirely in American Sign Language.

DEAF 165. Seminar: Current Issues in the Deaf -World. 3 Units
Prerequisite(s): DEAF 154 or instructor approval.
Term Typically Offered: Fall, Spring

This course will explore a specific theme of interest to faculty and students within the program, with course content changed each semester. Selected topics will touch upon issues of special concern and interest to the Deaf community such as genetics, multicultural issues, media representations of deafness, theatre and performance art, visual arts, and other subjects which may arise in the future. Course will consist of readings, discussion, independent research, and viewing of various media as appropriate.
Note: 1) May be repeated when different topic is offered with a different instructor of record 2) Course taught in ASL with No Voice.

DEAF 166. Experiences in the Deaf Community - Dynamics of Oppression and Building Allyship. 3 Units
Prerequisite(s): DEAF 155, DEAF 161, DEAF 162.
Term Typically Offered: Fall, Spring, Summer

This course links active participation in the Deaf community to the content of previous Deaf Studies courses. In particular this course examines how to be a good ally within the Deaf community in the midst of a context of power, privilege and difference. Following a Service Learning model, students will collaborate on various service projects contributing to the Deaf community. Field trip.
Note: Course taught in ASL with No Voice.

Field trip(s) may be required.

DEAF 199. Independent Study in Deaf Studies. 1 - 3 Units
Prerequisite(s): DEAF 154
Term Typically Offered: Fall, Spring

Individual projects designed especially for students capable of independent study.
Note: Departmental petition required.

EDUC 10. Critical Thinking and the Educated Person. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Examines thinking process patterns and dispositions, for self, children, parents and educators. Familiarizes students with critical thinking, provides a systematic approach to its process and components. Students will learn about problem solving, decision-making, logical and creative thinking. The study of critical thinking will be supplemented with readings, discussions, and written assignments. Implements critical thinking applications used both in student's academic and personal lives.

EDUC 10H. Critical Thinking and the Educated Person: Honors. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

This introductory course will examine the thinking process patterns and dispositions for self, children, parents and educators. The purpose of this course is to familiarize students with critical thinking, and to provide a systematic approach to its process and components. Students will learn about problem solving, decision-making, logical and creative thinking. The study of critical thinking will be supplemented with readings, discussions, and written assignments. The course will implement critical thinking applications used both in student's academic and personal lives.

EDUC 18. Mathematical Practices Across Cultures. 3 Units
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Introduction to diverse mathematical thought, action and practices across cultures. Mathematics will be seen from a diversity of contexts. Learners will consider how diverse contexts and traditions both reflect a culture's heritage and world view and influence the mathematics learned and used. Topics covered include: ethnomathematics, mathematical modeling, and cultural connections in relation to diverse forms of quantitative reasoning, problem solving, numbering, systems of organization, perceptions of time and space as experienced by diverse traditions and peoples.

EDUC 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

EDUC 99. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual projects designed especially for lower division students capable of independent study. Focus is on issues and topics involving exceptional populations.
Note: may be repeated for up to 12 units of credit

Credit/No Credit

EDUC 100A. Educating Students with Disabilities in Inclusive Settings. 2 Units
Corequisite(s): EDUC 100B.
Term Typically Offered: Fall, Spring

This course provides an overview of current knowledge about individuals with disabilities within the context of inclusive educational and community-based settings, with substantial focus on the role of the educator in the education of students who have disabilities in diverse communities. Content includes historical factors, legislation, causes and characteristics, educational needs, educational strategies, including educational technologies, assessment, collaboration, and support services for individuals with disabilities ranging across mild, moderate, severe, and profound disability levels.
Note: Designed to meet the Special Education requirement for a clear multiple and single subject credential.

EDUC 100B. Educating Students with Disabilities in Inclusive Settings Lab. 1 Unit
Corequisite(s): EDUC 100A.
Term Typically Offered: Fall, Spring

Field-based 30 hour experience. Lab is a synthesis and application of EDUC 100A course content in educational setting for students who receive special education services. Students will verify multiple experiences across the age-span and in inclusive educational settings, agencies, and community environments.
Credit/No Credit

EDUC 101A. Consultation Strategies for Educators of Students with Disabilities. 2 Units
Corequisite(s): EDUC 101B.
Term Typically Offered: Fall, Spring

Basic skills for effective collaboration and teaming are practiced through simulations, reflective case study analyses, and interviews with families, paraprofessionals, and related service providers. Cultural, socioeconomic and organizational implications are analyzed.

EDUC 101B. Consultation Strategies for Educators of Students with Disabilities - Lab. 1 Unit
Corequisite(s): EDUC 101A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDUC 101A) in the development of basic collaboration strategies for individuals with mild/moderate disabilities. Students are required to participate in class visitations, interviews, and other field assignments.
Credit/No Credit

EDUC 102. Foundations in Career and Technical Studies. 3 Units
Prerequisite(s): Students need to be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

This course will introduce students to Career & Technical Studies with a focus on college and career readiness by developing a foundation for careers as teachers, trainers, and facilitators in the public and private sector. Students will also explore brain based learning, historical and legislative developments in CTE and Adult Education, lesson plan development, as well as different teaching and learning strategies for participation in a 21st century workforce.

EDUC 103. Assessment and Instruction in Adult and Organizational Training. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Demonstrates how to develop performance criteria, continuously assess learner performance levels and evaluate student achievement. Students develop a standard-based course outline and prepare training modules and units of instruction of use for individual, small group and whole class delivery systems.

EDUC 104. Teaching Issues of Diversity in Schools and Workplace. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Demonstrates how to encourage excellence among and design instruction from different gender, ethnic, sexual orientation, language, and ability groups. This course aims to include research and discussion on education and employment law in regards to sensitivity towards cultural heritages, principles of language acquisition, bias free instructional/ workplace materials and inclusive practices.

EDUC 105. Advanced Instructional Design, Program Evaluation and Leadership in Career Technical Studies. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Explores aspects of CTS program design and management. Investigates aspects of organizing a program following guidelines detailed in the California Career Technical framework. Considers methods of program evaluation following the model set forth by the Western Association of Schools and Colleges (WASC). Examines leadership qualities and values, analyzing potential benefits and liabilities of various leadership styles.

EDUC 106. Individual Growth Through the Examination of Personal Assets, Philosophies and Life Experiences. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

This course is designed as a primer for EDUC 107 by introducing concepts, exercises, and research that focus on the personal elements associated with leadership and self-growth. Participants will develop greater self-awareness and understanding of key personal assets/ issues that impact leadership development and enhance organizational communication and growth. The impact of life experiences and personal philosophies will be discussed as they relate to effective leadership development. An inter-interdisciplinary approach to personal growth and development will be emphasized.

EDUC 107. Designing Solutions. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Offers student participation in innovative solutions to organization, team, and individual needs. Using design thinking¿s iterative process, students will be able to identify needs and develop potential solutions to meet those needs to improve performance.

EDUC 109. Career Guidance in Career Technical Studies. 1 Unit
Prerequisite(s): Application for Review of Work Experience. Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Examines the professional history of students and assists them in gathering documentation to support their Experimental Learning Portfolio for submission to the CSU Reviewing Committee. Assists students in identifying goals for professional accomplishment.
Credit/No Credit

EDUC 110. Current Issues in Workforce Development. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Course provides an in-depth investigation of various challenges and issues facing workforce development professionals in the public and private sectors. Students will utilize Design Thinking tools in order to identify and study critical workforce development issues, and develop solutions that benefit the individual and organization.

EDUC 111. Education for Career Technical Students with Special Needs. 3 Units
Term Typically Offered: Fall, Spring

Introduces concepts and practices of inclusion of special needs students as provided for under federal legislation and case law. Methods of adapting instruction and devising positive behavioral supports for students of diverse abilities are studied. Methods of assessing the progress of students with diverse abilities are examined.

EDUC 112. Organizational Policies, Finance and Legislation. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

This course aims to provide students with information which will enhance their understanding of organizational finance, legislation and policies. Critical to this course is the understanding that Career and Technical Education (CTE) organizations rely on local, state and national policy, finance and legislation to function.

EDUC 113. Implement Digital Technologies with Ethical Knowledge. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Develop professional competencies in digital and emerging technologies, defined by the National Association of Colleges and Employers (NACE) taskforce. Cultivate a keen awareness about digital technologies when blending fundamental ethical principles and foresight to make quality decisions. Identify and implement effective pathways to learn and ethically adapt emerging technologies strategically. Solve problems effectively to attain sustainable goals.

EDUC 114. Theories and Practices of Multiculturalism in Schools and Organizations. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

An introduction to the study of multiculturalism and its impact on schools and the workplace. The primary objective is to provide a learning environment which is conducive to the development of knowledge, understanding, and skills consistent with multicultural training and pluralistic philosophies. Students will examine the work of adult education theorists and business scholars that impact schools and the workforce. The course examines social institutions, beliefs, customs, and social trends affecting adult education, organizations, and the workforce.

EDUC 115. Improvement Science for Organizational Effectiveness. 3 Units
Prerequisite(s): Student must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Course explores improvement science methods for disciplined inquiry to solve specific problems of practice. Using assessment tools, strategic planning, systems thinking and organizational development, this course focuses on creating innovative solutions to business and marketplace challenges.

EDUC 116. Methods of Inquiry in Career Technical Studies. 3 Units
Prerequisite(s): Student must be admitted to the BSCTS program
Term Typically Offered: Fall, Spring, Summer

This course provides students with a broad overview of methods and models of academic research. Students will evaluate sources and prioritize those with the highest quality according to key identifying factors. Students will gain understanding of how individual research models are matched to specific issues and problems within the domain of Career Technical Studies, and relate these to their own individual growth and career development based upon their particular interests, goals and strengths.
Credit/No Credit

EDUC 117. Field Experience in Career Technical Education. 1 - 6 Units
Prerequisite(s): Student must be admitted to the BSCTS program
Term Typically Offered: Fall, Spring

Individualized field experience designed collaboratively by the student and instructor.
Note: Department consent required

Credit/No Credit

EDUC 118. Integrative Perspectives in Leadership. 3 Units
Prerequisite(s): Students must be admitted to BSCTS program.
Term Typically Offered: Fall, Spring, Summer

This course explores methods of integrative thinking, holistic leadership practices, cultural perspectives, and mindful communication techniques for current and future leaders. This course defines leadership styles and gives students the opportunity to apply integrative thinking models across multiple disciplines.

EDUC 120. Literature For Children. 3 Units
Prerequisite(s): Must have Junior or higher standing to enroll in this course
Term Typically Offered: Fall, Spring

Historical and modern children's literature; standards of selection and acquaintance with the leading authors and illustrators; procedures and practices in methodology.

EDUC 121. Multicultural Children's Literature. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

Survey of historical and modern multicultural children's literature examining standards of selection and acquaintance with the leading authors, illustrators and book awards; procedures and practice in methodology. Focus on children's literature which represents the diversity in America and fosters an understanding of the cultural values, identity, and heritage of those populations.

EDUC 124A. Tutoring Children in Mathematics. 2 Units
Corequisite(s): EDUC 124B.
Term Typically Offered: Fall, Spring

Orientation to concept and practice of tutoring basic mathematics skills including developing conceptual understanding and the ability to scaffold instruction of addition, subtraction, multiplication and division of whole numbers, fractions, and decimals. After completing on-campus training, students are placed in nearby school districts. May be taken by all undergraduate students and is strongly recommended for students considering careers in education, criminal justice, psychology, and social work. It may also be used as an elective in the Blended Teacher Education Program.
Note: May be taken twice for credit.

Credit/No Credit

EDUC 124B. Tutoring Children in Mathematics: Practicum. 1 Unit
Corequisite(s): EDUC 124A.
Term Typically Offered: Fall, Spring

Practicum of tutoring basic mathematics skills and scaffolding instruction of addition, subtraction, multiplication and division of whole numbers, fractions, and decimals. After completing on-campus training, students are placed in nearby school districts. May be taken by all undergraduate students and is strongly recommended for students considering careers in education, criminal justice, psychology, and social work. It may also be used as an elective in the Blended Teacher Education Program.
Note: May be taken twice for credit.

Credit/No Credit

EDUC 125A. Tutoring Children in Reading. 2 Units
Corequisite(s): EDUC 125B.
Term Typically Offered: Fall, Spring

Orientation to concept and practice of tutoring basic reading skills including sight word recognition, word analysis skills, oral fluency, and comprehension. After completing on-campus training, students are placed in nearby school districts.
Note: Strongly recommended for students considering careers in education, criminal justice, psychology and social work. May be repeated once for credit. May also be used as an elective in the Blended Teacher Education Program.

Credit/No Credit

EDUC 125B. Tutoring Children in Reading Practicum. 1 Unit
Corequisite(s): EDUC 125A
Term Typically Offered: Fall, Spring

Field-based course provides a synthesis and application of course content learned in EDUC 125B. Students are placed in a primary level setting for at-risk students who read approximately two grade levels below their peers. The twice-weekly practicum focuses on comprehension questioning strategies, learning styles and differences, multicultural and ESL strategies, Reader's theater and poetry, and motivating students to achieve greater academic success.
Note: May be taken by all undergraduate students and must be taken concurrently with EDUC 125A.

Credit/No Credit

EDUC 126. Assisting the Elementary Classroom Teacher. 3 Units
Prerequisite(s): EDUC 125A.
Term Typically Offered: Fall, Spring

Directly connected to hands-on classroom experiences. Students will be intensively trained in workshops, and will work as teacher assistants in public schools (4 hours per week). Students will learn strategies for working with diverse groups of students at all grade levels; keep weekly tutoring logs; and write a case study on a student and present their findings to the class. Students will reflect on their own growth and development.
Note: May be repeated once for credit.

Credit/No Credit

EDUC 127A. Field Experience in After School STEM Programs. 2 Units
Corequisite(s): EDUC 127B
Term Typically Offered: Fall, Spring

Orientation to high quality Science, Technology, Engineering, and Mathematics (STEM) instruction. On-campus training includes skills to develop conceptual understanding and ability to scaffold instruction for elementary and middle school aged students in STEM after school programs. After completing on-campus training, students assist with instruction in nearby school STEM programs.
Note: May be taken twice for credit

Credit/No Credit

EDUC 127B. Field Experience in After School STEM Programs: Practicum. 1 Unit
Corequisite(s): EDUC 127A
Term Typically Offered: Fall, Spring

This course is designed to connect students with local public school partners in after school programs that support inquiry based STEM activities with K-8 children. After completing on-campus training, students then complete the practicum.
Note: May be taken twice for credit

Credit/No Credit

EDUC 128. Education and Communication in Korean Society. 3 Units
Term Typically Offered: Fall, Spring

This course is designed to explore various dimensions of the education and the communication in Korea. It will focus on (a) the Korean educational philosophy, system, and practices of all levels -preschool to higher education; (b) the Korean language in a variety of communicative contexts; and (c) how education and communication shape and interface. The similarities and differences in education and communication between South Korea and the United States will be also investigated.

EDUC 130A. Typical & Atypical Developmental Characteristics and Outcomes for Young Children with Disabilities. 2 Units
Prerequisite(s): CHDV 30 or approved equivalent.
Corequisite(s): EDUC 130B.
Term Typically Offered: Fall, Spring

Examination of disabilities and risk factors and their influence on developmental competencies and outcomes for infants, toddlers, and young children. Content will include typical developmental patterns of young children, atypical development due to prenatal, perinatal and early childhood developmental risk factors including low incidence disabilities, and an introduction to interventions in a range of community settings to address the unique needs of these children and their families. Lecture.

EDUC 130B. Typical & Atypical Development Characteristics and Outcomes for Young Children with Disabilities Lab. 1 Unit
Prerequisite(s): CHDV 30 or approved equivalent.
Corequisite(s): EDUC 130A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of lecture/discussion course content in home based, center based, and community settings serving infants, toddlers, and young children with disabilities and their families.
Credit/No Credit

EDUC 131A. Introduction to Family Centered Service Delivery In Early Childhood Special Education. 2 Units
Prerequisite(s): EDUC 130A and EDUC 130B or its equivalent.
Corequisite(s): EDUC 131B.
Term Typically Offered: Fall, Spring

Designed to enable participants to gain knowledge and develop skills necessary to provide culturally responsive, family-centered approaches to assessment and intervention for infants and young children with disabilities. Focus will be on the historical, theoretical, and philosophical bases for family-centered service delivery, including an emphasis on understanding family systems and family life stages, respect for cultural diversity, the IFSP process, collaborative parent-professional relationships, parent advocacy, and transition planning. Lecture.

EDUC 131B. Introduction to Family Centered Service Delivery in Early Childhood Special Education Laboratory. 1 Unit
Prerequisite(s): EDUC 130A and EDUC 130B or its equivalent.
Corequisite(s): EDUC 131A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of lecture course content (EDUC 131A) in home-based , center-based and/or community settings serving infants and young children with disabilities and their families.
Credit/No Credit

EDUC 155. Introduction to Counseling. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the profession of counseling, including differences between professional counseling and other professions, counseling theories, consultation skills and an introduction to basic counseling skills. Lecture three hours.
Note: Open to unclassified students on a space available basis. Required prerequisite for the Master of Science in Counseling and requirement for the Counseling minor, not included in 200-series 60 unit program for master's degree. Instructor approval required.

EDUC 156. Power, Privilege and Self Identity in Counseling. 3 Units
Term Typically Offered: Fall, Spring

Focuses on understanding how one's values, attitudes, belief systems impact perception of differences related to race, ethnicity, culture, etc. Experiential activities promote self awareness while developing capacity in becoming a culturally responsive/skilled counselor. Historical processes that created inter and intra group constructs are explored.
Note: Open to unclassified students on a space available basis. Required corequisite for the Master of Science in Counseling and requirement for the Counseling Minor, not included in 200-series 60 unit master's degree. Instructor approval required.

EDUC 157. Child and Family Psychopathology. 3 Units
Prerequisite(s): Students minoring in couseling must take CHDV 30 or CHDV 35 or PSYC 2.
Term Typically Offered: Fall, Spring

Examines the etiology of development and mental health issues in children, youth and caregivers, including genetic and socio-cultural factors. The classification and treatment of abnormal behavior within family contexts will also be explored. Recommended for human services majors such as child development, education, psychology, counseling, social work and criminal justice.

EDUC 160. Urban Education. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Designed to enhance students' knowledge of urban schooling, especially related to dynamics of race, class, and culture. Along with a Service Learning component in urban schools, provides analysis of the following: historical, socioeconomic, and political factors influencing urban education; the distribution of opportunity in cities and their schools; and effective instructional organizational practices that close the achievement gap, including the development of positive school cultures and the use of community services and resources.

EDUC 165. Sex Role Stereotyping in American Education. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

This course is designed to introduce students to the educational programs and practices resulting from societal sex role and racial stereotyping. It analyzes the specific effects of sex and race inequalities in the total school setting.

EDUC 168. Foundational Issues for a Multicultural, Pluralistic Society, B. 3 Units
Prerequisite(s): Admission and enrollment in BMED multiple subject credential program; EDBM 117.
Corequisite(s): EDBM 402B.
Term Typically Offered: Fall, Spring

Critical examination of the socio-political relationship between California's public schools and its major population subgroups (as defined by culture, gender, social class, language, race/ethnicity, and ability). Candidates critically reflect on the philosophy and practices of schooling in relation to students' culture, family and community; analyze institutional and instructional practices for educational equity; and develop alternative instructional activities based on the principles of multicultural education and English language learning in a democratic society. Lectures, discussions, small group work, simulations, field tasks.

EDUC 169. Cross-Cultural Bridges: A Humanist Approach to Education. 3 Units
Term Typically Offered: Fall, Spring, Summer

This course is designed to expand students¿ knowledge of how history informs present day dynamics of race, culture, and socioeconomic status in education. Students will examine how humanists in history navigated cultural differences. A critical discourse that centers on humanist pedagogy will be used to show how future educators, leaders, and students can evolve in their own identities to understand cultural differences and how they can create change.

EDUC 170. Bilingual Education: Introduction to Educating English Learners. 3 Units
Term Typically Offered: Fall, Spring

Introductory study of important themes regarding the education of English Learners. Covers the history of bilingual education; relevant legal mandates and court rulings; first and second language acquisition; linguistic development; theory and practice of effective programs; and beginning methods, materials and strategies responsive to the students' primary language and assessed levels of English proficiency. A fieldwork component involving the tutoring of an English Learner is required.
Note: EDUC 170 is a prerequisite for EDMS 272, EDBM 279.

EDUC 171. Bilingualism in the Classroom. 3 Units
Term Typically Offered: Fall, Spring

Provides an overview of the language factors that impact first and second language acquisitions in the K-12 classrooms and will provide opportunities through which they will build a palette of strategies that can be utilized to enhance language development within the realms of listening, speaking, reading, writing, and thinking. A combination of theory and practice will provide the base as students read, discuss, listen to lectures, view videos, conduct in class and field-based tasks, and synthesize their thoughts in writing.

EDUC 172. Introduction to Hmong Literacy. 3 Units
Prerequisite(s): Fluent in Hmong
Term Typically Offered: Fall, Spring

This course covers fundamental literacy components of the Hmong language. It examines the historical development and maintenance of the Hmong oral and written language and related issues based on lectures, class discussions, group work, writing assignments, and a research paper. It fulfills one of the requirements for teaching credential students pursuing the Bilingual Cross Cultural Authorization (BCLAD).

EDUC 173. Hmong History and Culture. 3 Units
Term Typically Offered: Fall, Spring

This course covers history of the Hmong dated 5,000 years ago to the present. It examines Hmong history and culture as it evolves through living in various Asian countries and in the United States through lectures, class discussions, group work, writing assignments, and a research paper.

EDUC 175. Pedagogy and Academic Language Skills in Spanish for Bilingual Educators. 3 Units
Prerequisite(s): Spanish fluency/literacy required.
Term Typically Offered: Fall only

This course is designed to provide participants background and foundational knowledge in Standard Spanish language use, language varieties in Spanish, issues of power and language in our society, academic language use, and bilingual methods. Participants will examine theoretical and practical issues in bilingual language use in society and in the classroom. Participants will learn and apply bilingual teaching methods, will analyze children's bilingual language use, and also will evaluate Spanish medium texts and trade books.

EDUC 190A. Becoming an Educator I. 2 Units
Prerequisite(s): All of the following: CHDV 30 or CHDV 35; and CHDV 35F, or equivalents.
Term Typically Offered: Fall, Spring

This is the first in a 2-course series on education as an academic area and profession, designed for students enrolled in teaching credential courses prior to bachelor¿s completion. Examines personal and academic attributes and achievements necessary for becoming an educator in the general or special education context. This course focuses on fostering personal attributes and fulfilling requirements for entering the profession. Students will complete academic and biographical readings and 30 hours of elementary (TK-8th) classroom observation.

EDUC 190B. Becoming an Educator II. **1 Unit**
Prerequisite(s): EDUC 190A.
Term Typically Offered: Spring only

This is the second in a 2-course series on education as an academic area and profession, designed for students enrolled in teaching credential courses prior to bachelor¿s completion. Examines personal and academic attributes and achievements necessary for becoming an educator in the general or special education context. This course focuses on gaining experience in the diverse classroom setting and engaging in reflective teaching practices. Students will complete biographical readings and at least 20 hours of elementary (TK-8th) classroom observation.
Credit/No Credit

EDUC 194. Cooperative Education Experience. **3 Units**
Prerequisite(s): Approval of Department Chair.
Term Typically Offered: Fall, Spring

Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in the student's major field of study and academic credit. Students receive employment in school districts, state and community agencies, companies, and other appropriate settings. Requires attendance at weekly meetings, preparation of application packet, completion of field study assignment and a written final report.
Note: Units may not be used to meet course work requirements.

Credit/No Credit

EDUC 199. Special Problems. **1 - 3 Units**
Term Typically Offered: Fall, Spring

Individual projects designed especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and Department Chair.
Credit/No Credit

BA in Child Development (Early Development, Care, and Education)

Units required for Major: 50-51
Total units required for BA: 120

Program Description

Child and Adolescent Development is the study of the biological, physical, socio-emotional, and cognitive growth and development of the child from conception through emerging adulthood. Using theory, empirical research, and practice, this rigorous academic program prepares students to work as agents of social change with diverse populations of children, adolescents, emerging adults, and families in a variety of areas, including education, advocacy, research, policy, counseling, and/or other settings.

The Child and Adolescent Development Concentration in EDCE prepares students to work in child care settings with children from infancy through pre-kindergarten. The program consists of the core child and adolescent academic program and 14–15 units of electives with a focus of study on developmental theory, systematic observation and assessment, and pre-school curriculum development. Students have opportunities for first-hand experience working with infants and children, and can complete most of the ECE requirements for a child development permit. Students planning to obtain the California Child Development permit for preschool/day care teaching or administration should consult a faculty advisor for information about specific course and field-work requirements and application process.

In collaboration with the College of Continuing Education, a mixed-media hybrid distance education version is currently offered. The coursework consists of 41-51 course units to meet EDCE requirements and 9 units of upper division coursework to meet the CSU general education and writing requirements. For more information visit the College of Continuing Education's Website (http://www.cce.csus.edu/edce/).

Program Requirements

Code	Title	Units
Required Foundation Courses (12 Units)		
CHDV 30	Human Development [1]	3
or CHDV 35	Child and Adolescent Development	
CHDV 123	Qualitative Methods in Human Development	3
CHDV 133	Quantitative Methods in Human Development	3
FACS 50	[1]	3
Required Upper Division Core Courses (23 Units) [2]		
CHDV 131	Language Development	3
CHDV 132	Fieldwork in Child Development	3
CHDV 135	Crosscultural Child Development	3
CHDV 136	Developmental Experiences, Methods and Curriculum	3
or COMS/ FACS 108	Family Communication	
CHDV 137 & 137L	Cognitive Development Cognitive Development Research Laboratory [3]	4
CHDV 138 & 138L	Social and Emotional Development Social and Emotional Development Laboratory [3]	4
CHDV/FACS 154	Issues in Parenting	3
Electives (14-15 Units)		
Select 14-15 units of approved electives. [4]		14 - 15
Total Units		49-50

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Completion of or concurrent enrollment in CHDV 123 or CHDV 133 is required for registration in required upper division core courses.
3. CHDV 137/CHDV 137L or CHDV 138/CHDV 138L are not recommended to be taken in the same semester.
4. Students are required to select an additional 14-15 units of approved electives to provide understanding of the physical, socio-emotional, and cognitive growth and development of the child from conception through adolescence. These electives should also apply to the area of concentration. Student may select courses from an approved list of electives below.

Elective List:

Code	Title	Units
ANTH 101	Cultural Diversity [5]	
ART 133	Art Education for Children	
CHDV 31	Adult Supervision and Mentoring In Early Childhood Programs [6]	

CHDV 32	Administration and Supervision of Early Childhood Programs [6]
CHDV 35F	Human Development and Elementary Field Experience
CHDV 134	Development of Young Children as Mathematical and Scientific Thinkers
CHDV 136	Developmental Experiences, Methods and Curriculum
CHDV 139	Educational Play: Theory and Practice
CHDV 140	Coordination of Early Childhood Programs [6]
CHDV 141	History of Childhood: International and Interdisciplinary Perspectives [5]
CHDV 143	Mind and Brain in Developmental Context (Pending approval, CHDV 143 will no longer meet WI requirement.) [5]
CHDV 145	Controversial Issues in Childhood Development, Education, and Social Policy (pending approval, CHDV 145 will meet WI requirement)) [5]
CHDV 150A & CHDV 150B	Early Literacy Development in First and Second Language Early Literacy Development in First and Second Language Practicum
CHDV 153	Apprenticeship in Advanced Child Development
CHDV 157	Infant and Toddler: Development and Care [6]
CHDV 194	Cooperative Education Experience
CHDV 199	Special Problems
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab
EDUC 120	Literature For Children
EDUC 121	Multicultural Children's Literature [5]
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum
EDUC 165	Sex Role Stereotyping in American Education [5]
EDUC 170	Bilingual Education: Introduction to Educating English Learners
EDUC 172	Introduction to Hmong Literacy
ETHN 100	Ethnic America [5]
FACS/COMS 108	
HRS 161	Multicultural America [5]
KINS 172	Movement Education
STAT 1	Introduction to Statistics [5]
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class [5]

[5] Course also satisfies General Education (GE)/Graduation Requirement.

[6] Recommended for the Child Development Permit.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (7-13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [3]		0 - 3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [4]		0 - 3
Area C: Arts and Humanities (9-12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [4]		0 - 3
Area D: The Individual and Society (6-9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [4]		0 - 3
Area E: Understanding Personal Development		
Area E Course [2]		0
Total Units		31-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following' option:
- If student chooses to take STAT 1, they will meet Area B4.

[4] Department offers students a 'select from the following' option:
- If student chooses to take CHDV 143, they will meet Area B5.
- If student chooses to take CHDV 141 or EDUC 121, they will meet upper division Area C.
- If student chooses to take ANTH 101, CHDV 145, EDUC 165, ETHN 100, or SWRK 102, they will meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3-9 Units)		
American Institutions: U.S. History [2]		0 - 3

American Institutions: U.S. Constitution & CA Government	3
Writing Intensive (WI) [3]	0 - 3
Graduation Requirements (required by Sacramento State) (9 Units)	
English Composition II	3
Race and Ethnicity in American Society (RE) [4]	0
Foreign Language Proficiency Requirement [5]	6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Department offers students a 'select from the following' option:
   - If student chooses to take ANTH 101, they will meet the U.S. History graduation requirement.
3. Department offers students a 'select from the following' option:
   - If student chooses to take CHDV 143, EDUC 121, EDUC 165, or ETHN 100, they will meet the Writing Intensive (WI) graduation requirement.
4. Required in Major; also satisfies Graduation Requirement.
5. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Child Development (Elementary Pre-Credential)

Units required for Major: 49
Total units required for BA: 120

Program Description

Child and Adolescent Development is the study of the biological, physical, socio-emotional, and cognitive growth and development of the child from conception through emerging adulthood. Using theory, empirical research, and practice, this rigorous academic program prepares students to work as agents of social change with diverse populations of children, adolescents, emerging adults, and families in a variety of areas, including education, advocacy, research, policy, counseling, and/or other settings.

The Child and Adolescent Development Concentration in Elementary Pre-credential is an academic child and adolescent development program with an emphasis on preparing the student to enter an elementary school (multiple-subjects) teaching credential program. It consists of the core academic child and adolescent development courses, 11 units of credential prerequisite courses, and 3 units of electives, chosen from the approved list. Students who intend to pursue an elementary school (multiple subjects) teaching credential must take the CBEST exam and the CSET subject matter exam as a part of the admission requirements for the credential program. Child and Adolescent Development students planning to pursue the credential should work with a faculty advisor to select general education courses recommended as preparation for the CSET exam.

Program Requirements

Code	Title	Units
Required Foundation Courses (14 Units)		
CHDV 35	Child and Adolescent Development [1]	3
CHDV 35F	Human Development and Elementary Field Experience	2
CHDV 123	Qualitative Methods in Human Development	3
CHDV 133	Quantitative Methods in Human Development	3
FACS 50	[1]	3
Required Upper Division Core Courses (20 Units) [2]		
CHDV 131	Language Development	3
CHDV 132	Fieldwork in Child Development	3
CHDV 135	Crosscultural Child Development	3
CHDV 136	Developmental Experiences, Methods and Curriculum [3]	3
CHDV 137 & 137L	Cognitive Development Cognitive Development Research Laboratory [3]	4
CHDV 138 & 138L	Social and Emotional Development Social and Emotional Development Laboratory [3]	4
Credential Requirements (11 Units)		
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab	3
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
HLSC 136		2
KINS 172	Movement Education	3
Elective (3 Units)		
Select one elective [4]		3
Total Units		48

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Completion of, or concurrent enrollment in CHDV 123 or CHDV 133 is required for registration in required upper division core courses.
3. CHDV 137/CHDV 137L or CHDV 138/CHDV 138L are not recommended to be taken in the same semester.
4. Students in the elementary pre-credential emphasis are required to select one course from the approved list of pre-credential electives. It is suggested that students work with a faculty advisor to select this course and are strongly urged to select courses that will assist in preparation for the CSET examination. Students may select courses from an approved list of electives below.

Elective List

Code	Title	Units
ANTH 101	Cultural Diversity [5]	
ART 133	Art Education for Children	
CHDV 134	Development of Young Children as Mathematical and Scientific Thinkers	
CHDV 139	Educational Play: Theory and Practice	

CHDV 143	Mind and Brain in Developmental Context (CHDV 143 will no longer be WI, pending approval) [5]
CHDV 144	Community Service Learning in Developmental and Educational Settings
CHDV 145	Controversial Issues in Childhood Development, Education, and Social Policy (CHDV 145 will be WI, pending approval) [5]
CHDV 150A & CHDV 150B	Early Literacy Development in First and Second Language Early Literacy Development in First and Second Language Practicum
CHDV 153	Apprenticeship in Advanced Child Development
CHDV 194	Cooperative Education Experience
CHDV 199	Special Problems
EDUC 120	Literature For Children
EDUC 121	Multicultural Children's Literature [5]
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum
EDUC 127A & EDUC 127B	Field Experience in After School STEM Programs Field Experience in After School STEM Programs: Practicum
EDUC 160	Urban Education [5]
EDUC 165	Sex Role Stereotyping in American Education [5]
EDUC 171	Bilingualism in the Classroom
EDUC 172	Introduction to Hmong Literacy
ETHN 100	Ethnic America [5]
FACS/COMS 108	
HRS 161	Multicultural America [5]
STAT 1	Introduction to Statistics [5]
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class [5]

[5] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (7-13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [3]		0 - 3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [4]		0 - 3
Area C: Arts and Humanities (9-12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [4]		0 - 3
Area D: The Individual and Society (6-9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [4]		0 - 3
Area E: Understanding Personal Development		
Area E Course [2]		0
Total Units		31-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following' option:
- If student chooses to take STAT 1, they will meet Area B4.

[4] Department offers students a 'select from the following' option:
- If student chooses to take CHDV 143, they will meet Area B5.
- If student chooses to take EDUC 121, they will meet upper division Area C.
- If student chooses to take ANTH 101, CHDV 145, EDUC 160, EDUC 165, ETHN 100, or SWRK 102, they will meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3-9 Units)		
American Institutions: U.S. History [2]		0 - 3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [3]		0 - 3
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [4]		0
Foreign Language Proficiency Requirement [5]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department offers students a 'select from the following' option:
- If student chooses to take ANTH 101, they will meet the U.S. History graduation requirement.

[3] Department offers students a 'select from the following' option:
- If student chooses to take CHDV 143, EDUC 121, EDUC 160, EDUC 165, or ETHN 100, they will meet the Writing Intensive (WI) graduation requirement.

[4] Required in Major; also satisfies Graduation Requirement.

[5] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Child Development (Individualized)

Units required for Major: 50-51
Total units required for BA: 120

Program Description

Child and Adolescent Development is the study of the biological, physical, socio-emotional, and cognitive growth and development of the child from conception through emerging adulthood. Using theory, empirical research, and practice, this rigorous academic program prepares students to work as agents of social change with diverse populations of children, adolescents, emerging adults, and families in a variety of areas, including education, advocacy, research, policy, counseling, and/or other settings.

Child and Adolescent Development Individualized concentration is an interdisciplinary program made up of the core academic child and adolescent courses and 14–15 units of electives, from a wide variety of fields, such as education, art, public policy, nursing, or criminal justice, just to name a few. This major is flexible to allow students to design their program to closely align with personal and career objectives. The program handbook and Web site include a current list of approved electives. However, the students should select their electives in consultation with a major advisor.

Program Requirements

Code	Title	Units
Required Foundation Courses (12 Units)		
CHDV 30	Human Development [1]	3
or CHDV 35	Child and Adolescent Development	
CHDV 123	Qualitative Methods in Human Development	3
CHDV 133	Quantitative Methods in Human Development	3
FACS 50	[1]	3
Required Upper Division Core Courses (23 Units) [2]		
CHDV 131	Language Development	3
CHDV 132	Fieldwork in Child Development	3
CHDV 135	Crosscultural Child Development	3
CHDV 136	Developmental Experiences, Methods and Curriculum	3
or COMS/ FACS 108	Family Communication	
CHDV 137 & 137L	Cognitive Development Cognitive Development Research Laboratory [3]	4
CHDV 138 & 138L	Social and Emotional Development Social and Emotional Development Laboratory [3]	4
CHDV/FACS 154	Issues in Parenting	3
Electives (14-15 Units)		
Select 14-15 units of approved electives [4]		14 - 15
Total Units		49-50

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Completion of or concurrent enrollment in CHDV 123 or CHDV 133 is required for registration in required upper division core courses.

[3] CHDV 137/CHDV 137L or CHDV 138/CHDV 138L are not recommended to be taken in the same semester.

[4] Students are required to select an additional 14-15 units of approved electives to provide understanding of the physical, socio-emotional, and cognitive growth and development of the child from conception through adolescence. These electives should also apply to the area of concentration. Students may select courses from an approved list of electives below.

Elective List

Code	Title	Units
ANTH 101	Cultural Diversity [5]	
ART 133	Art Education for Children	
CHDV 35F	Human Development and Elementary Field Experience	
CHDV 136	Developmental Experiences, Methods and Curriculum	
CHDV 141	History of Childhood: International and Interdisciplinary Perspectives [5]	
CHDV 143	Mind and Brain in Developmental Context (Pending approval, CHDV 143 will no longer meet WI requirement.) [5]	
CHDV 145	Controversial Issues in Childhood Development, Education, and Social Policy (Pending approval, CHDV 145 will meet WI requirement.) [5]	
CHDV 153	Apprenticeship in Advanced Child Development	
CHDV 157	Infant and Toddler: Development and Care	
CHDV 194	Cooperative Education Experience	
CHDV 199	Special Problems	
EDUC 120	Literature For Children	
EDUC 121	Multicultural Children's Literature [5]	
EDUC 155	Introduction to Counseling [6]	
EDUC 156	Power, Privilege and Self Identity in Counseling [6]	
EDUC 157	Child and Family Psychopathology [6]	
EDUC 160	Urban Education [5]	
EDUC 165	Sex Role Stereotyping in American Education [5]	
EDUC 172	Introduction to Hmong Literacy	

ETHN 100	Ethnic America [5]
FACS/COMS 108	
FACS 156	Child Life and Family-Centered Care
HLSC 136	
KINS 172	Movement Education
STAT 1	Introduction to Statistics [5]
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class [5]

[5] Course also satisfies General Education (GE)/Graduation Requirement.

[6] Cannot be used for both major electives and for the Minor in Counseling.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (7-13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [3]		0 - 3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [4]		0 - 3
Area C: Arts and Humanities (9-12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [4]		0 - 3
Area D: The Individual and Society (6-9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [4]		0 - 3
Area E: Understanding Personal Development		
Area E Course [2]		0
Total Units		31-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following' option:
- If student chooses to take STAT 1, they will meet Area B4.

[4] Department offers students a 'select from the following' option:
- If student chooses to take CHDV 143, they will meet Area B5.
- If student chooses to take CHDV 141 or EDUC 121, they will meet upper division Area C.
- If student chooses to take ANTH 101, CHDV 145, EDUC 160, EDUC 165, ETHN 100, or SWRK 102, they will meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3-9 Units)		
American Institutions: U.S. History [2]		0 - 3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [3]		0 - 3
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [4]		0
Foreign Language Proficiency Requirement [5]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department offers students a 'select from the following' option:
- If student chooses to take ANTH 101, they will meet the U.S. History graduation requirement.

[3] Department offers students a 'select from the following' option:
- If student chooses to take CHDV 143, EDUC 121, EDUC 160, EDUC 165, or ETHN 100, they will meet the Writing Intensive (WI) graduation requirement.

[4] Required in Major; also satisfies Graduation Requirement.

[5] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Child Development (Integrated Pre-Credential Subject Matter Program)

Units required for Major: 111-114

Program Description

Child Development Integrated Pre-credential Subject Matter Program combines state-approved courses in the subject matter areas with the coursework of the Child Development academic major. This

concentration is most appropriate for students who intend to pursue an elementary school (multiple subjects) teaching credential. Students who follow this option obtain an academic major in child development and also take subject matter coursework in six categories: Language and Literature; Mathematics; Natural and Physical Sciences; Social Sciences and Humanities; the Arts; and Physical Education. The coursework is aligned with the subject matter frameworks on which the CSET subject matter examinations are based. It is essential that students considering this concentration seek early and frequent advising within the major because the general university requirements are built into the required coursework.

Note: Students do **not** follow the General Education pattern outlined in the catalog.

Minimum Grade Requirements

A grade of 'C-' or higher is required for all coursework in Child Development courses.

Program Requirements

Code	Title	Units
Core Requirements/Child Development (34 Units)		
CHDV 35	Child and Adolescent Development	3
CHDV 35F	Human Development and Elementary Field Experience	2
CHDV 123	Qualitative Methods in Human Development	3
CHDV 131	Language Development	3
CHDV 132	Fieldwork in Child Development	3
CHDV 133	Quantitative Methods in Human Development	3
CHDV 135	Crosscultural Child Development	3
CHDV 136	Developmental Experiences, Methods and Curriculum	3
CHDV 137 & 137L	Cognitive Development Cognitive Development Research Laboratory [1]	4
CHDV 138 & 138L	Social and Emotional Development Social and Emotional Development Laboratory [1]	4
Select one of the following:		3
ETHN 166/ FACS 166A	American Indigenous Families: Issues and Perspectives	
ETHN 167	Asian American Families: Issues and Perspectives	
ETHN 173	The Black Family in the United States	
FACS 50		
Credential Requirements/Prerequisites (11 Units)		
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab	3
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
HLSC 136		2
KINS 172	Movement Education	3
Language and Literature (15 Units)		
COMS 5	The Communication Experience	3
ENGL 5	Accelerated Academic Literacies	3
ENGL 20	College Composition II [2]	3
ENGL 116B	Children's Literary Classics	3
or EDUC 120	Literature For Children	
Select one of the following:		3
COMS 2	Argumentation	
ENGL 1C	Critical Thinking and Writing [2]	
ENVS 11	Environmental Issues and Critical Thinking	
JOUR 50	Media Literacy and Critical Thinking	
PHIL 4	Critical Thinking	
SOC 8	Sense and Nonsense in Social Issues and Research	
Mathematics (9 Units)		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural and Physical Sciences (15 Units)		
BIO 7	Introduction to the Science of Biology	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Sciences and Humanities (21 Units)		
ETHN 100	Ethnic America [3]	3
GEOG 100	Themes In World Geography	3
GOVT 1		3
HIST 17A	United States History, 1607-1877	3
HIST 50	World Civilizations, Beginnings-1600	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
Visual/Performing Arts (9 Units)		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3
THEA 118	Children's Theatre	3
Total Units		114

[1] CHDV 137/CHDV 137L or CHDV 138/CHDV 138L are not recommended to be taken in the same semester.

[2] ENGL 20 may be satisfied with an ENGL 1C course, or its equivalent, if transferred from an approved community college.

[3] Satisfies the Writing Intensive course requirement for graduation.

Notes:

- Students are strongly recommended to see an advisor early in the program and continuously throughout the program.

BA in Child Development (Social and Community Settings)

Units required for Major: 50-51
Total units required for BA: 120

Program Description

Child and Adolescent Development is the study of the biological, physical, socio-emotional, and cognitive growth and development of the child

from conception through emerging adulthood. Using theory, empirical research, and practice, this rigorous academic program prepares students to work as agents of social change with diverse populations of children, adolescents, emerging adults, and families in a variety of areas, including education, advocacy, research, policy, counseling, and/or other settings.

Child and Adolescent Development Concentration in Social and Community settings is appropriate for students interested in working with children and families in community, government, and social or therapeutic settings. Students complete the child and adolescent development core academic courses, and choose 14–15 units of electives. These electives should be chosen in coordination with a major advisor to select courses and field-work in specific settings, or courses to prepare for application to a program for graduate study.

Program Requirements

Code	Title	Units
Required Foundation Courses (12 Units)		
CHDV 30	Human Development [1]	3
or CHDV 35	Child and Adolescent Development	
CHDV 123	Qualitative Methods in Human Development	3
CHDV 133	Quantitative Methods in Human Development	3
FACS 50	[1]	3
Required Upper Division Core Courses (23 Units) [2]		
CHDV 131	Language Development	3
CHDV 132	Fieldwork in Child Development	3
CHDV 135	Crosscultural Child Development	3
CHDV 136	Developmental Experiences, Methods and Curriculum	3
or COMS/ FACS 108	Family Communication	
CHDV 137 & 137L	Cognitive Development Cognitive Development Research Laboratory [3]	4
CHDV 138 & 138L	Social and Emotional Development Social and Emotional Development Laboratory [3]	4
CHDV/FACS 154	Issues in Parenting	3
Electives (14-15 Units)		
Select 14-15 units of approved electives [4]		14 - 15
Total Units		49-50

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Completion of or concurrent enrollment in CHDV 123 or CHDV 133 is required for registration in required upper division core courses.

[3] CHDV 137/CHDV 137L or CHDV 138/CHDV 138L are not recommended to be taken in the same semester.

[4] Students are required to select an additional 14-15 units of approved electives to provide understanding of the physical, socio-emotional, and cognitive growth and development of the child from conception through adolescence. These electives should also apply to the area of concentration. Students may select courses from an approved list of electives below.

Elective List

Code	Title	Units
ANTH 101	Cultural Diversity [5]	
ART 133	Art Education for Children	
CHDV 35F	Human Development and Elementary Field Experience	
CHDV 136	Developmental Experiences, Methods and Curriculum	
CHDV 141	History of Childhood: International and Interdisciplinary Perspectives [5]	
CHDV 143	Mind and Brain in Developmental Context (Pending approval, CHDV 143 will no longer meet WI requirement) [5]	
CHDV 145	Controversial Issues in Childhood Development, Education, and Social Policy (Pending Approval, CHDV 145 will meet WI requirement) [5]	
CHDV 153	Apprenticeship in Advanced Child Development	
CHDV 157	Infant and Toddler: Development and Care	
CHDV 194	Cooperative Education Experience	
CHDV 199	Special Problems	
EDUC 120	Literature For Children	
EDUC 121	Multicultural Children's Literature [5]	
EDUC 155	Introduction to Counseling [6]	
EDUC 156	Power, Privilege and Self Identity in Counseling [6]	
EDUC 157	Child and Family Psychopathology [6]	
EDUC 160	Urban Education [5]	
EDUC 165	Sex Role Stereotyping in American Education [5]	
EDUC 172	Introduction to Hmong Literacy	
ETHN 100	Ethnic America [5]	
FACS/COMS 108		
FACS 156	Child Life and Family-Centered Care	
HLSC 136		
KINS 172	Movement Education	
STAT 1	Introduction to Statistics [5]	
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class [5]	

[5] Course also satisfies General Education (GE)/Graduation Requirement.

[6] Cannot be used for both major electives and for the Minor in Counseling.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (7-13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3

B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)	1
B4 - Math Concepts [3]	0 - 3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [4]	0 - 3
Area C: Arts and Humanities (9-12 Units)	
C1 - Arts	3
C2 - Humanities	3
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [4]	0 - 3
Area D: The Individual and Society (6-9 Units)	
Area D Course	3
Area D Course	3
Area D Course [2]	0
Area D Course - Take upper-division course to complete Area & upper division requirements. [4]	0 - 3
Area E: Understanding Personal Development	
Area E Course [2]	0
Total Units	31-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following' option:
- If student chooses to take STAT 1, they will meet Area B4.

[4] Department offers students a 'select from the following' option:
- If student chooses to take CHDV 143, they will meet Area B5.
- If student chooses to take CHDV 141 or EDUC 121, they will meet upper division Area C.
- If student chooses to take ANTH 101, CHDV 145, EDUC 160, EDUC 165, ETHN 100, or SWRK 102, they will meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3-9 Units)		
American Institutions: U.S. History [2]		0 - 3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [3]		0 - 3
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [4]		0
Foreign Language Proficiency Requirement [5]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department offers students a 'select from the following' option:
- If student chooses to take ANTH 101, they will meet the U.S. History graduation requirement.

[3] Department offers students a 'select from the following' option:
- If student chooses to take CHDV 143, EDUC 121, EDUC 160, EDUC 165, or ETHN 100, they will meet the Writing Intensive (WI) graduation requirement.

[4] Required in Major; also satisfies Graduation Requirement.

[5] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Deaf Studies

Units required for Major 41-44
Total units required for BA: 120

Program Description

Deaf Studies takes an interdisciplinary approach to the study of deaf and hard-of-hearing people in American and world society. The program promotes the understanding of the deaf community as a linguistic and cultural group and encourages students to analyze existing stereotypes and policies relating to deaf and hard-of-hearing people in order to work both within their own communities and others in affecting change for the betterment of the deaf and hard-of-hearing community.

Admission Requirements

There are no admission requirements, prerequisites or other criteria for admission into the BA in Deaf Studies. Students are encouraged to enter into the program with previously acquired ASL skills in order to continue and build upon their learning before going out into the field in working with Deaf people. Students need to maintain a C (or better) average to graduate with a degree in Deaf Studies.

Program Requirements

Code	Title	Units
Required Courses (42-44 Units)		
DEAF 51	American Sign Language 1	3,4
DEAF 52	American Sign Language 2 [1]	3,4
DEAF 53	American Sign Language 3 [1]	4
DEAF 56	ASL Fingerspelling and Numbers	1
DEAF 57	ASL Classifiers	2
DEAF 60	Introduction to Deaf Studies [1]	3
DEAF 154	American Sign Language 4	4
DEAF 155	American Sign Language 5	4

DEAF 161	Deaf History	3
DEAF 162	Deaf Culture and Community	3
DEAF 163	ASL Literature	3
DEAF 164	Sign Language Structure and Usage	3
DEAF 165	Seminar: Current Issues in the Deaf -World	3
DEAF 166	Experiences in the Deaf Community - Dynamics of Oppression and Building Allyship	3
Total Units		42-44

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (9 Units)		
C1 - Arts		3
C2 - Humanities [2]		0
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2,3]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BS in Career and Technical Studies

Units required for the Major: 40
Total units required for BS: 120

Program Description

The Bachelor of Science in Career and Technical Studies (BSCTS) is an online degree completion program designed to prepare working adults with practical, marketable skills to successfully enter new careers or advance in their current fields.The program is versatile and can be applied to a variety of disciplines. The degree can serve as a springboard to a master's degree or as a career ladder into many professions.

This program uses instructional techniques suited to adult learners, including real world instruction and personalized academic advising. We also offer networking opportunities and accelerated programming.

The BSCTS program is offered through a partnership between the College of Continuing Education and the College of Education at Sacramento State. Students must earn a grade of C- or better in all BSCTS major courses in order to earn the degree.

The BSCTS Program requires that students have seven years, full-time, paid work experience in a career technical/educational/business field (or five years, full-time, paid work experience and an associate's degree in that field).

Admission to Sacramento State is required for this program. Candidates must complete general education and graduation requirements for Sacramento State and the Career and Technical Studies major.

Notes:

- In addition to the courses listed, students must receive credit through the Application for Review and Evaluation of Work Experience which will go through an evaluation process for past career technical/teaching experience and must be approved by the reviewer for the degree. Students may receive up to 30 elective units from this evaluation.

Program Requirements:

Code	Title	Units
Required Courses (40 Units)		
EDUC 102	Foundations in Career and Technical Studies	3
EDUC 103	Assessment and Instruction in Adult and Organizational Training	3
EDUC 104	Teaching Issues of Diversity in Schools and Workplace	3
EDUC 105	Advanced Instructional Design, Program Evaluation and Leadership in Career Technical Studies	3
EDUC 106	Individual Growth Through the Examination of Personal Assets, Philosophies and Life Experiences	3
EDUC 107	Designing Solutions	3
EDUC 109	Career Guidance in Career Technical Studies	1
EDUC 110	Current Issues in Workforce Development	3
EDUC 112	Organizational Policies, Finance and Legislation	3
EDUC 113	Implement Digital Technologies with Ethical Knowledge	3
EDUC 114	Theories and Practices of Multiculturalism in Schools and Organizations	3
EDUC 115	Improvement Science for Organizational Effectiveness	3
EDUC 116	Methods of Inquiry in Career Technical Studies	3
EDUC 118	Integrative Perspectives in Leadership	3
Total Units		40

MA in Child Development

Total units required for MA: 30

Program Description

The Master of Arts in Child Development program offers an opportunity for the advanced study of developmental theory and research in preparation for a wide range of professional objectives. The program emphasizes scholarly reflection on developmental issues, and academic excellence in oral and written communication. Program faculty value academic scholarship and research, and regard their application in professional settings as central to the mission of the MA program. Graduates of the program are expected to be well educated, lifelong learners, with excellent preparation in research, theory and practice in diverse, multicultural settings.

The MA program prepares graduates for professional employment in a variety of settings, including working directly with infants, children and their families, teaching at the community college level, and preparing for additional study toward a doctoral degree in child development or a related field. The program incorporates the following areas of study: developmental research and theory; cognitive, linguistic and social, and emotional development of children; social, and cultural and familial influences on development; children with behavioral, emotional, cognitive, and academic special needs and their families; programming and curricula development; principles and practices involved in organizing, administering, and evaluating child development programs.

For further information please see the Academic Program Services Office, Eureka Hall 401, or check the College of Education's website (http://www.csus.edu/coe/academics/graduate/).

Admission Requirements

Admission as a classified graduate student in the Master of Arts in Child Development requires:

- a BA in Child/Human Development or a closely related field, Some applicants may be admitted with the condition that certain prerequisite courses be completed before beginning the requirements for the MA CHDV program;
- minimum 3.0 GPA in the last 60 units completed;
- completion of coursework in research methods (CHDV 123, CHDV 128, and/or CHDV 133, or equivalent) and upper-division child development survey (CHDV 137 and/or CHDV 138) (may be admitted conditionally without these prerequisites);
- experience in programs serving children from infancy through primary grades; and
- strong writing and communication skills.

Opportunity exists for conditional classification of applicants with an undergraduate major and experiences different from those listed above. This requires that students demonstrate convincingly that they are competent to pursue the degree.

Admission Procedures

All prospective graduate students, including Sacramento State graduates, must file a University application and a separate supplemental MA CHDV program application. Both applications must be submitted by the deadlines stated on the College of Education and Office of Graduate Studies web sites. Required application materials include:

- online applications for admission;
- official transcripts from all college and universities attended, *other than Sacramento State*;
- a well-written, clearly articulated, statement of the applicant's educational and professional background and an explanation of how graduate study will advance the applicant's professional goals;
- two letters of recommendation.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/). Details about each of the components of the supplemental application can be found on the application packet posted to the College of Education web site.

Approximately six weeks after the posted application deadline, a decision regarding admission will be emailed to each applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0; no units with a grade lower than 'B-' may apply toward the degree.

Advancement to Candidacy Procedures

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of courses in the graduate program (see Requirements) with a minimum 3.0 GPA; and
- met the Graduate writing requirement through completion of the Graduate Writing Intensive (GWI) course, CHDV 242, with a B grade or better.

Advancement to Candidacy forms are available on the Office of Graduate Studies website or in the department office. The student should complete the Advancement to Candidacy form after planning a degree program in consultation with a program faculty advisor. The form must be submitted to the Graduate Coordinator and the Office of Graduate Studies for approval.

Project/Thesis or Examination Registration

The approved Master's Thesis/Project format guide is the American Psychological Association (APA) - latest edition. Enrollment in CHDV 504 Project/Thesis course requires that the student file an Intent to Register form **at least one full semester in advance of registration in these courses. For** students intending to complete a project or thesis, a petition must be approved prior to beginning the project or thesis. The petition requires approval from the thesis/project sponsor, a second reader and from the Graduate Coordinator or Department Chair. Please see your list of deadlines and consult with a program advisor. Additional information about CHDV theses and projects may be found in the Thesis/Project handbook on the department web page.

Check in the Department office for the policies regarding Report in Progress ('RP') grades and continuous enrollment.

Graduation

Prior to graduation, an application for graduation must be filed in the Office of Graduate Studies. In addition, all coursework leading to the Master's degree must be completed within a seven-year period.

Program Requirements

Code	Title	Units
Pre or Corequisites (6 Units)		
Select one of the following:		3
CHDV 123	Qualitative Methods in Human Development	
CHDV 128	Combined Research Methods in Human Development	
CHDV 133	Quantitative Methods in Human Development (Select one of the following)	
Select one of the following:		3
CHDV 138	Social and Emotional Development	
CHDV 137	Cognitive Development	
Total Units		6

Code	Title	Units
Required Foundation Courses (12 Units)		
CHDV 200	Proseminar in Child Development	3
CHDV 242	Theoretical Approaches to Development	3
CHDV 247	Theoretical and Applied Perspectives on Cross-cultural Development (Select one of the Methods courses:)	3
Select one of the Methods courses:		3
CHDV 250	Quantitative Research Methods	
CHDV 258	Qualitative Research Methods	
Core Course Requirements (9 Units)		
Select three of the following:		9
CHDV 210	Seminar in Social Development	
CHDV 211	Seminar in Cognitive Development	
CHDV 245	Selected Topics in Developmental Theory	
CHDV 246	Motivation and Learning in Children	
CHDV 248	Curriculum and Instruction	
CHDV 249	Language Processes in Development	
CHDV 250	Quantitative Research Methods [1]	
CHDV 253	Apprenticeship in Advanced Child Development	
CHDV 258	Qualitative Research Methods [1]	
CHDV 295	Practicum in Child Development	
EDS 290	Issues in Early Childhood Education for Children with Disabilities	
Elective (3 Units)		
Select 3 units in consultation with an advisor		3
Culminating Experience (6 Units)		
Thesis or Project		
CHDV 290	Seminar for Culminating Experience,Writing a Proposal	3
CHDV 504	Culminating Experience in Child Development: Thesis or Project	3
Total Units		30

[1] Course may not count as both a Foundation and Core.

Note: Credit for CHDV 504 is given upon completion of a thesis, project, or other approved culminating experience. Open only to the graduate student who has been advanced to candidacy for the master's degree and has secured the permission of his/her faculty advisor and the Department Chair one full semester prior to registration. All forms may be obtained in the Department office or on the college web site.

Minor in American Sign Language/ Deaf Studies

Units required for Minor: 23

Program Description

American Sign Language and Deaf Studies takes an interdisciplinary approach to the study of deaf and hard-of-hearing people in American and world society. The program promotes the understanding of the deaf community as a linguistic and cultural group and encourages students to analyze existing stereotypes and policies relating to deaf and hard-of-hearing people in order to work both within their own communities and others in affecting change for the betterment of the deaf and hard-of-hearing community.

With an ASL and Deaf Studies Minor, students may obtain entry-level jobs in settings working with the deaf such as residential supervisor, classroom aide, vocational trainer, and much more. Students may also

combine an ASL and Deaf Studies Minor with a related major field of study such as education, counseling, audiology and speech therapy for a more well-rounded grounding in the issues relating to the deaf and hard-of-hearing in their field. Students in fields which are not specifically deaf-related such as nursing, law, computer engineering, and many more may also experience an edge in gaining employment, whether in deaf-related settings or not, with a minor in ASL and Deaf Studies compared to those without similar coursework or experience.

Further, students having completed the ASL and Deaf Studies Minor may be able to waive similar coursework at other universities with specialized fields of study relating to deafness that may not be offered in the Sacramento region.

Program Requirements

Code	Title	Units
Required Courses (23 Units)		
DEAF 51	American Sign Language 1	3
DEAF 52	American Sign Language 2	3
DEAF 53	American Sign Language 3	4
DEAF 60	Introduction to Deaf Studies	3
DEAF 154	American Sign Language 4	4
DEAF 161	Deaf History	3
DEAF 162	Deaf Culture and Community	3
Total Units		23

Minor in Bilingual/Multicultural Education

Units required for Minor: 12

Program Description

In addition to University-based courses, the minor can include a field-based course in an educational setting with high numbers of children and adolescents from diverse backgrounds. Students develop a coherent course of study in education and diversity with a Bilingual/Multicultural Education (BMED) Advisor and approval from the BMED Chair. This minor is especially recommended for students seeking the bilingual authorization for their teacher credential offered through the BMED Multicultural/Multilingual Teacher Preparation Center.

Program Requirements

The Education Minor offered by the Bilingual/Multicultural Education Department (BMED) consists of 12 units or more of upper division education courses that focus on diversity and education. Courses in the minor offer students the opportunity to explore the issues of race, culture, language, class, gender, and ability/disability, and their relationship to education.

Minor in Child Development

Units required for Minor: 20

Program Description

Child Development is the study of the physical, socio-emotional, and cognitive growth and development of the child from conception through adolescence. The purpose of the minor is to provide an academic background that prepares students to work with children and families in a variety of settings.

Minimum Grade Requirement

A grade of 'C-' or higher is required for all coursework in the Child Development minor.

Program Requirements

Code	Title	Units
CHDV 30	Human Development	3
or CHDV 35	Child and Adolescent Development	
CHDV 128	Combined Research Methods in Human Development [3]	3
CHDV 131	Language Development	3
CHDV 137	Cognitive Development [1]	3
CHDV 137L	Cognitive Development Research Laboratory [1]	1
CHDV 138	Social and Emotional Development [1]	3
CHDV 138L	Social and Emotional Development Laboratory [1]	1
Choose 3 units of electives [2]		3
Total Units		20

1. CHDV 137/CHDV 137L or CHDV 138/CHDV 138L are not recommended to be taken in the same semester.
2. Students may select one course from an approved list of electives below.
3. Students may take both CHDV 123 and CHDV 133 to meet CHDV 128 requirement.

Elective List

Code	Title	Units
ANTH 101	Cultural Diversity	
ART 133	Art Education for Children	
CHDV 31	Adult Supervision and Mentoring In Early Childhood Programs	
CHDV 32	Administration and Supervision of Early Childhood Programs	
CHDV 134	Development of Young Children as Mathematical and Scientific Thinkers	
CHDV 136	Developmental Experiences, Methods and Curriculum	
CHDV 139	Educational Play: Theory and Practice	
CHDV 140	Coordination of Early Childhood Programs	
CHDV 141	History of Childhood: International and Interdisciplinary Perspectives	
CHDV 143	Mind and Brain in Developmental Context	
CHDV 145	Controversial Issues in Childhood Development, Education, and Social Policy	
CHDV 150A & CHDV 150B	Early Literacy Development in First and Second Language Early Literacy Development in First and Second Language Practicum	
CHDV 153	Apprenticeship in Advanced Child Development	
CHDV 157	Infant and Toddler: Development and Care	
CHDV 194	Cooperative Education Experience	
CHDV 199	Special Problems	

EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab
EDUC 120	Literature For Children
EDUC 121	Multicultural Children's Literature
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum
EDUC 127A & EDUC 127B	Field Experience in After School STEM Programs Field Experience in After School STEM Programs: Practicum
EDUC 155	Introduction to Counseling
EDUC 156	Power, Privilege and Self Identity in Counseling
EDUC 157	Child and Family Psychopathology
EDUC 160	Urban Education
EDUC 165	Sex Role Stereotyping in American Education
EDUC 170	Bilingual Education: Introduction to Educating English Learners
EDUC 171	Bilingualism in the Classroom
EDUC 172	Introduction to Hmong Literacy
ETHN 100	Ethnic America
FACS/COMS 108	
FACS 156	Child Life and Family-Centered Care
PUBH 136	School Health Education
HRS 161	Multicultural America
KINS 172	Movement Education
STAT 1	Introduction to Statistics
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class

Minor in Counseling

Units required for Minor: 19

Program Description

The Counseling minor consists of 10 upper division units of Child Development and 9 upper division units of Counseling (EDC). Students will critically examine the theory and research on social and emotional development, and specifically explore the role of the family context in developmental processes, with specific attention to dynamic family processes within the larger society. Students will explore the career of counseling, and the cultural, social, and emotional factors that contribute to unhealthy psychological adjustment and abnormal behavior within developmental and social contexts.

Minimum Grade Requirement

A grade of 'C-' or higher is required for all coursework in the Counseling minor.

Program Requirements

Code	Title	Units
CHDV 128	Combined Research Methods in Human Development	3
CHDV 135	Crosscultural Child Development	3
CHDV 138 & 138L	Social and Emotional Development Social and Emotional Development Laboratory	4
EDUC 155	Introduction to Counseling	3
EDUC 156	Power, Privilege and Self Identity in Counseling	3
EDUC 157	Child and Family Psychopathology	3
Total Units		19

Note: Students majoring in Childhood Development **and** in the Counseling minor may overlap a maximum of 10 units (including electives) between the minor and major. Consult with a Child Development advisor for more information. Students may take both CHDV 123 and CHDV 133 to meet CHDV 128 requirement.

Minor in Teacher Education (Teaching, Equity, and Engagement)

Units required for Minor: 15

Program Description

This minor is advantageous for those planning graduate study in these fields and those pursuing a teaching credential or a career using teaching and engagement strategies. The skills gained in the Minor in Education coursework allows students to master facilitation and presentations talents used in various careers and workplace settings. This Minor may be particularly useful to students with undergraduate majors in Human Resources, Communication Studies, Criminal Justice, Counseling, Family and Consumer Sciences, Nursing, Recreation Administration, Social Welfare, Speech Pathology and Audiology, and Vocational Education.

Program Requirements

Code	Title	Units
Select one of the following groups:		3
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	
EDUC 127A & EDUC 127B	Field Experience in After School STEM Programs Field Experience in After School STEM Programs: Practicum	
Select one of the following:		3
EDUC 120	Literature For Children	
EDUC 121	Multicultural Children's Literature	
EDUC 160	Urban Education	3
EDUC 165	Sex Role Stereotyping in American Education	3
Take 3 units of upper division Child Development, Education, or courses selected with advisor approval to provide opportunity for expertise in teaching, equity, and engagement [1]		3
Total Units		15

[1] See advisor/s for list of approved electives.

College of Engineering and Computer Science

Support Programs

Internship and Career Services

Career planning services are available through the College of Engineering and Computer Science including professional development workshops, job listings, information sessions, job fairs, and guest speakers from the industry and government. The College of Engineering and Computer Science, with programs accredited by ABET (CAC and EAC) and ACCE, employs a director to assist students in choice of major, career planning, and obtaining career-related experience during their education, and in finding professional-level employment at graduation. Students in engineering, computer science, and construction management are encouraged to take advantage of career and internship services early in their educational process and to obtain experience available in a wide range of business, industry, and government organizations in the greater Sacramento area. Through these opportunities, students gain valuable experience and information about how engineering, computer science and construction management principles are applied in the real world.

Information is available on a wealth of career related topics including demand for engineering, computer science, and construction management majors, salary ranges, corporate contacts, and industry trends. Current job listings can be found on the ECS Career Services website (http://career.ecs.csus.edu).

Neysa Bush, Director
ECS, Internship and Career Services
Santa Clara Hall 1204
(916) 278-6756
career@ecs.csus.edu

Computing, Communications, and Academic Technology Services

The College of Engineering and Computer Science's Computing, Communications, and Academic Technology Services unit (abbreviated ECS Computing Services) is the integrated Information and Academic Technology (IT/AT) unit for the College. ECS Computing Services is a part of the Dean's Office and serves all faculty, staff and students of the College. It is the College unit charged with implementing and supporting the ECS Information Technology Plan and provides comprehensive IT/AT support to the College.

This support includes hardware, software, networking, and consulting for both academic and research computing and communications. ECS Computing Services manages all of the College's computing facilities, including servers for academic computing, DB, LMS, cloud storage, and web hosting, as well as 42 Windows 7/10 or Linux workstation-equipped laboratories containing 600+ workstations and the College's local area network. Computer accounts are maintained for approximately 3,000 faculty, staff, students and projects.

The ECS Computing Services unit was founded in 1986 when the College procured its first two minicomputers, a pair of DEC VAX 11/785s. The organization has evolved significantly over the years and today is focused on supporting a highly distributed and virtualized computing and communications environment.

The 42 computer equipped laboratories are located in three buildings occupied by the College - Riverside Hall, Santa Clara Hall, and the first floor of the Academic Information Resource Center (AIRC). Examples of specific labs include: Open Labs, Structures Lab, Mechanical Processes Lab, Service Courses Lab, Operating Systems Lab, Special Projects Labs, Computer Architecture Lab, Network and Communications Lab, Programming Labs, Security and Forensics Lab, Circuit Design Lab, Senior Project Design Labs, Mixed Signal Design Lab, Mechanical Design Lab, Construction Management Lab, Robotics Lab, Environmental Engineering Lab, Digital Signal Processing Lab, Virtual Instrumentation Lab, Biomedical Lab, Graduate Projects Design Labs, Biomechanics Lab, Power Lab, Computer Integrated Manufacturing Lab, Mechatronix Lab, 3D Modeling Lab, Automotive Engineering, and an Energy Systems Lab. General building hours for all labs are 7 a.m. to 9 p.m. Monday through Thursday, 7 a.m. to 5 p.m. on Friday, and 11 a.m. to 2 p.m. on Saturday. ECS students are each given a digital access key that allows them to have 24/7 building and lab access. One of these open labs also houses the ECS Computing Services Help Desk, which is staffed with student consultants and provide faculty, staff, and student support seven days a week during the academic semester.

Standard software packages such as Word, Excel, and PowerPoint are provided and distributed by ECS Computing Services. In addition, department-specific software packages such as MentorGraphics, AutoCAD, ProEngineer, Patran, Synopsys, Labview, and SolidWorks are maintained and supported. Linux and Windows 7/10 are the dominant desktop operating systems in use.

The College has an in-house data center for servers and network infrastructure. There are approximately 30 physical servers in the College Data Center, running Linux or MS Windows Server. Approximately ten of those servers host another 70 customized Virtual Servers in a highly redundant Virtual Center. College servers are available 24/7 from on-campus and off-campus via VPN access, which includes Terminal Services Servers that contain all the applications software installed in college computer labs. The College also maintains numerous multimedia classroom facilities and an internet-based teleconference facility.

Additional information, documentation check-out, forms, centralized printer/plotter output, lab support, and user consulting are available at the Help Desk in the main ECS Computing Services Lab in 2011 Riverside Hall, (916) 278-6690. Further information may also be obtained from the ECS Web page (http://www.ecs.csus.edu).

Lynne Koropp, Interim Director
ECS Computing Services
Riverside Hall 2011
(916) 278-3547

Center for Information Assurance and Security

The mission of the Center for Information Assurance and Security is to advance knowledge of information assurance and security practices through:

- Education, training, and awareness programs in information assurance and security issues and practices.
- Applied research in information assurance and security.
- Developing interdisciplinary programs in information assurance and security.
- Outreach programs to assist our community, including community colleges, K-12 schools, industry, and government in information assurance and security issues.

- Forming collaboration with other education, research, industry, and government institutions as partners.

Jun Dai, Director
Center for Information Assurance and Security
Riverside Hall 2009
(916) 278-6774

Cooperative Education Program

The College endorses cooperative education (co-op) as a means to enrich a student's education. Cooperative education relates theory to practice, provides 'learning by doing' and connects students with industry. The co-op program provides periods of university study with paid work experience in the student's major field of study. Students are encouraged to participate in the co-op plan by completing at least one four- to six-month work period before obtaining their degree. Credit is granted for successful completion of the co-op requirements. Students interested in the Cooperative Education Program should apply in 1204 Santa Clara Hall.

ECS Internship and Career Services
Santa Clara Hall 1204
(916) 278-6756
career@ecs.csus.edu

MESA Engineering Program (MEP)

Santa Clara Hall, Room 1206
(916) 278-6699

Participation in the MESA Engineering (MEP) increases the probability that students will be successful in their engineering coursework. Focusing on the recruitment, retention, and graduation of highly motivated students from educationally and financially disadvantaged backgrounds, MEP emphasizes participation by students from communities with low rates of enrollment in engineering majors.

MEP provides an on-campus home for its members with a large 24 hours-a-day study center that encourages study groups. MEP provides professional development, a freshman orientation course, and counseling. The program assists in the coordination of tutoring, counseling, and professional development services for all students in the College of Engineering and Computer Science.

Office of Water Programs

The Office of Water Programs (OWP) is a self-supported program. OWP provides training, technical assistance, and applied research management services for a variety of water resource and water quality disciplines: drinking water, wastewater, stormwater, watershed planning and soils and groundwater. The mission of OWP is to provide cost-effective solutions for protecting and enhancing water resources, public health, and the environment.

Since 1972, OWP has provided high-quality training programs for operators of water treatment plants, water distribution systems, wastewater collection systems, and municipal/industrial wastewater treatment and reclamation facilities, as well as for pretreatment facility inspectors, environmental compliance inspectors, and utility managers. As an internationally recognized training leader, OWP publishes a continually evolving library of print, electronic, and online training materials to meet the changing needs of water industry operators, managers and administrators seeking professional development. For the last 20 years, OWP has also provided training, technical assistance and applied research services for stormwater, watershed planning, soils, and groundwater disciplines. OWP collaborates with a number of civil and environmental engineering organizations and California state agencies on various projects related to statewide stormwater management practices. OWP's stormwater experience spans the areas of program management, regulatory compliance, siting and design of treatment devices (including stormwater low impact development [LID]), monitoring planning and oversight, data analysis, modeling, geographic information system (GIS) programming and software tool development.

OWP also serves as the U.S. Environmental Protection Agency (USEPA) Region 9 Environmental Finance Center (EFC), which supports the region's rural, disadvantaged, and tribal communities in financial planning and asset management to better enable funding environmental and public health services in the short term and to better adapt to regulatory, technological and resource changes in the future.

Ramzi J. Mahmood, Director
Modoc Hall 1001
(916) 278-6142
Office of Water Programs Website (http://www.owp.csus.edu)

Preparation

High School

Students entering as freshmen build primarily upon the foundations established in high school: mathematics, physical sciences, computer programming and oral and written communication. High school study for all majors should include:

- Algebra: 2 years
- Plane Geometry: 1 year
- Trigonometry: 1/2 year
- Chemistry: 1 year
- Physics: 1 year
- Mechanical Drawing: 1 year (only for civil and mechanical engineering majors)

Computer literacy and programming, analytic geometry and calculus are desirable.

Transfer

Students transferring from community colleges with at least 65 transferable units including physics, calculus and differential equations, chemistry, computer programming and lower division engineering courses as listed in this catalog for each program, may complete their engineering, computer science or construction management bachelor of science degree programs within four semesters of additional full-time study. Articulation agreements with most of the community colleges in Northern California state exact course equivalencies. Community college counseling staff are prepared to answer questions regarding articulation. Students planning to transfer from community colleges or four-year institutions with upper division standing are advised to parallel closely the appropriate California State University, Sacramento engineering, construction management or computer science program in the lower division. Completion of General Education (GE) requirements before transfer is NOT recommended or desirable, but rather, emphasis should be placed on taking prescribed basic science and engineering courses. Students should be aware that some of the major requirements also satisfy GE requirements.

Professional Development

Engineering, computer science and construction management students are encouraged to become acquainted with the functions and the branches within their fields to evaluate their own interests and abilities more carefully. For this purpose, student chapters of national organizations have been established in the college. It is to the student's advantage to become affiliated with the technical society in their interest area soon after enrolling in the university. Students with high scholastic achievement may be invited to join Tau Beta Pi, the national engineering honor society or Upsilon Pi Epsilon, the national computer science honor society.

Whenever possible, students should consider summer and part-time employment in a professional organization or an industry related to their major interest. Students are encouraged to take advantage of internship and career services. (See above.) This employment will provide the undergraduate student with practical experience in real world problems. The College's Internship and Career Services Office, working with the faculty and local industry, assists students in securing employment.

Bachelor of Science

Bachelor of Science degree programs are offered in Civil Engineering, Computer Engineering, Computer Science, Construction Management, Electrical and Electronic Engineering, and Mechanical Engineering. The undergraduate engineering programs are accredited by:
Engineering Accreditation Commission of ABET (EAC/ABET)
111 Market Place, Suite 1050
Baltimore, MD 21202-4012
Telephone: (410) 347-7700

The undergraduate computer science program is accredited by:
Computing Accreditation Commission of ABET (CAC/ABET)
111 Market Place, Suite 1050
Baltimore, MD 21202-4012
Telephone: (410) 347-7700

The Construction Management program is accredited by:
American Council for Construction Education (ACCE)
1300 Hudson Lane, Suite 3
Monroe, LA 71201-6054
Telephone: (318) 323-2413

Students in the College of Engineering and Computer Science are required to meet the general education requirements of the University.

Engineering students must satisfy the 16-unit humanities and social science requirement of EAC/ABET. Construction Management students must satisfy the 18-unit humanities and social science requirements of ACCE. Students should consult with their advisers to determine which courses meet accreditation requirements for social sciences and humanities. By choosing carefully, the student can satisfy the University's General Education requirements with these courses.

While the objective of a broad liberal education is served through independent humanities and social science courses, it is recommended that some courses in these subject areas be at an advanced level rather than a selection of unrelated beginning courses. Courses treating such subjects as accounting, industrial management, finance, personnel administration, art and music skills, introductory language, and ROTC studies do not fulfill the accreditation humanities-social science requirement.

Enrollment in upper division courses offered by the college is normally restricted to students who have satisfactorily completed all lower division requirements and who have been admitted to one of the majors in the college. Within each program, different patterns of study are possible through a judicious choice of electives.

Minor In Engineering

Non-majors in engineering may elect to minor in this field. Minor requirements may be satisfied by completing 21 approved units, of which 12 must be upper division. Students who have not completed the lower division requirements in calculus, including differential equations, physics, chemistry, and a few engineering courses will find it difficult to complete this minor in the four-year program due to the prerequisite requirements of upper division engineering courses.

Students wishing to minor in engineering must have their minor program approved by the Associate Dean of the College of Engineering and Computer Science. The program should normally include:

Code	Title	Units
ENGR 17	Introductory Circuit Analysis	3
ENGR 30	Analytic Mechanics: Statics	3
ENGR 45	Engineering Materials	3
ENGR 110	Analytic Mechanics - Dynamics	3
ENGR 112	Mechanics Of Materials	3
ENGR 124	Thermodynamics	3
ENGR 132	Fluid Mechanics	3

Master of Science

While graduates of baccalaureate programs enjoy successful careers in many aspects of engineering and computer science, graduate study is becoming more desirable for qualified students who expect to practice in research and development, teaching, management and many areas of design.

The MS degree programs offered in the College of Engineering and Computer Science include Civil Engineering, Computer Engineering, Computer Science, Electrical and Electronic Engineering, Mechanical Engineering, and Software Engineering.

In addition, special interdisciplinary studies are possible in selected areas chosen by the student in consultation with the faculty of the College.

The Master of Science programs require a minimum of 30 units of approved graduate study. The option availability of Plan A, B, or C is indicated with each specialization. Refer to the appropriate sections for detailed information concerning admission and degree requirements.

General information on admission requirements and general graduate study regulations are listed in the section, "Graduate Degree Curricula," of this catalog.

Note: Each graduate course is administered by one of the academic departments in the College. Information on these courses may be obtained in any of the academic department sections of the Catalog.

Departments/Programs

Programs of instruction leading to the following degrees offered by the college are listed in the catalog in separate sections.

- Civil Engineering, BS, MS
- Computer Science, BS, MS
- Computer Engineering, BS, MS
- Construction Management, BS
- Electrical & Electronic Engineering, BS, MS
- Mechanical Engineering, BS, MS

Contact Information

Lorenzo Smith, Dean
Kevan Shafizadeh, Associate Dean
Fausta Romo, Administrative Analyst Specialist
Denise Anderson, Administrative Support Coordinator
Suzanne Abshire, Administrative Support Coordinator
Jay Rutherdale, Administrative Support Coordinator
ECS Dean's Office
Riverside Hall 2014
(916) 278-6366
College of Engineering & Computer Science Website (http://www.ecs.csus.edu/)

Civil Engineering

College of Engineering and Computer Science

Program Description

Civil Engineering involves the application of scientific principles and knowledge of mathematics and computers to the planning, analysis, design, and construction of all types of private and public works. Reduction of air and water pollution, disposal of hazardous wastes, renewal of our old cities, planning and building of new communities, providing water, power, and high-speed ground transportation systems are the responsibilities of the civil engineer. It is a continual challenge to the civil engineer to provide these services efficiently by the construction of dams, buildings, bridges, tunnels, highways, airports, waterways, and waste handling facilities in harmony with the natural environment.

Because of the broad range of demands on the civil engineer's services, the undergraduate program is devoted to fundamental principles in mathematics; basic and engineering sciences; the spectrum of Civil Engineering practice in both analysis and design; and required courses in the humanities and the social sciences, so that engineers may better relate to the world and society they serve. The upper division program permits students to select 9 units (3 courses) of electives. Students may increase the breadth or depth of their knowledge in Civil Engineering by selecting these electives in several areas: environmental and water quality engineering, geotechnical engineering, structural engineering, transportation, and water resources engineering.

Degree Programs

BS in Civil Engineering (p. 559)

Cooperative Education Program (Work Experience) (http://catalog.csus.edu/colleges/engineering-computer-science/engineering-civil/cooperative-education-program-work-experience/)

MS in Civil Engineering (p. 561)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Civil Engineering is also individually accredited by ABET, Inc.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

- The BSCE degree is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (EAC/ABET).
- A notable strength of the program is that most faculty are licensed professional engineers in California and have practical experience in industry. Thus, faculty bring an ability to relate theory to practice, and the program prepares the student for the profession as well as for advanced study.
- Emphasis is placed on design which is the definition and solution of engineering problems in a practical manner. Lower division and first semester junior year coursework provides the preparation for design in courses such as mathematics, physics, descriptive geometry, CAD, surveying, computer applications, and engineering economics. Design courses are available to students in their last three semesters including a senior design project course in the final semester.
- Class sizes are small providing for close interaction between students and faculty. This interaction is enhanced in laboratory courses which are an integral part of the curriculum.
- Computers are used in many courses and students have free access to computer laboratories.
- Communication skills and social and ethical responsibilities of professional practice are emphasized.
- Students are encouraged to participate in the Student Chapter of American Society of Civil Engineers and other student organizations, to develop organizational skills, and to interact with practicing civil engineers.
- Sacramento, the State Capital and the seat of county government, provides proximity to city, county, state and federal agencies, and many consulting firms with Civil Engineering departments. Thus, students have a unique environment to draw upon for semester projects, part-time or summer employment, and career opportunities.

Program Educational Objectives

The objectives of the civil engineering are to prepare graduates to:

- ethically apply their hands-on, practice-oriented civil engineering education to succeed professionally;

- engage in lifelong learning through graduate education, professional development, and/or active involvement in professional organizations; and
- communicate effectively on multi-disciplinary teams to address diverse challenges, creating solutions that serve the general public.

Academic Policies and Procedures

The following is a summary of policies and procedures specific to the Department of Civil Engineering. Other University policies and procedures in this catalog also apply to Civil Engineering majors. The Department will not hear petitions for deviation from articulated policies made by students who disregard catalog policy.

- **Course Repeat Policy:** Undergraduate engineering and Civil Engineering courses that are used to meet the Bachelor of Science in Civil Engineering degree requirements may be repeated only twice (for a total of three attempts). Grades of the second and third attempt will be averaged in grade point calculations.
- **Reinstatement Policy:** Students seeking reinstatement to the Civil Engineering major must complete a Reinstatement Petition (obtained at Admissions and Records). That petition will be reviewed by the Department Chair for approval or rejection.
  Note: The only basis for reinstatement is the expectation (supported by evidence provided by the student) that the student is now likely to progress towards the satisfactory completion of the Department's degree requirements in a timely manner.
- **Minimum Grade Requirements:** The purpose of this requirement is to assure that all Civil Engineering majors attain the minimum level of competency in all their coursework required for a Bachelor of Science Civil Engineering Degree.
  All required courses in the major, all electives in the major, ENGL 5, and ENGL 20 must be completed with a grade of 'C-' or better.
  A minimum grade point average of 2.0 ('C') is required in the major courses applied to the degree.
- **Incomplete Grades:** Incomplete grades are issued only in accordance with University policy. The student must be passing the course at the time an "Incomplete" is requested. An Incomplete Petition (obtained in the Department Office) must be submitted to the Department with the student's and the course instructor's signature. The Incomplete Petition must specify the work to be completed, the basis by which the student's final grade will be determined, and the last date for completion of the incomplete work. An incomplete grade that is not cleared by the set date will lapse to an F grade.

Career Possibilities

Bridge Engineer · Civil Engineer · Construction Engineer · Design Engineer · Environmental Engineer · Foundation Engineer · Geotechnical Engineer · Highway Engineer · Hydraulic Engineer · Hydrologic Engineer · Project Engineer · Public Works Engineer · Research Engineer · Sanitary Engineer · Soils Engineer · Structural Engineer · Traffic Engineer · Transportation Engineer · Urban Planner · Water Resources Engineer

Contact Information

Benjamin Fell, Department Chair
Ashley Mihok, Administrative Support Coordinator
Riverside Hall 4024
(916) 278-6982
Department of Civil Engineering Website (http://www.ecs.csus.edu/ce/)

Faculty

ARMSTRONG, RICHARD

ARYANI, CYRUS

DAMMEL, EUGENE E.

FELL, BENJAMIN

FOGARTY, JULIE

GARCIA, JOSE

GHODRAT ABADI, MASOUD

HANSEN, KAREN L.

JOHNSTON, JOHN

KHAN, GHAZAN

MAHMOOD, RAMZI J.

MATSUMOTO, ERIC E.

MERAYYAN, SAAD

MOTLAGH, AMIR

POINDEXTER, CRISTINA

SCOTT-HALLET, KIMBERLY

CE 1. Civil Engineering Seminar. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduces students to civil engineering as a profession. Topics include the technical disciplines (environmental, geotechnical, structural, transportation, and water resources), the role of civil engineers in planning, constructing and operating infrastructure, and professional responsibilities such as licensure and ethics. Case studies are used to explore both technical and nontechnical aspects of civil engineering projects such as design and environmental constraints, constructability, and social and political issues.

CE 4. Engineering Graphics and CAD. 2 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

In-depth graphic analysis and solution of typical three dimensional space problems by applying the principles of orthogonal projection. Fundamentals of interactive computer aided design and drafting. Lecture one hour; laboratory three hours.

CE 9. Plane and Topographic Surveying. 2 Units
Prerequisite(s): MATH 30 and CE 9L. CE 9L may be taken concurrently. MATH 30 may be taken concurrently. Not currently enrolled in CE 9.
Term Typically Offered: Fall, Spring

Methods for the measurement of distance, direction, angles and elevations. Computational methods for locating points, closing traverses and determining areas and earthwork volumes. Horizontal and vertical curves. Introduction to legal aspects of surveying, geodetic surveys, maps, boundary surveys and new technologies used in surveying. Lecture two hours.

CE 9L. Plane and Topographic Surveying Laboratory. 1 Unit
Prerequisite(s): MATH 30 and CE 9. CE 9 may be taken concurrently. MATH 30 may be taken concurrently. Not currently enrolled in CE 9L.
Term Typically Offered: Fall, Spring, Summer

Laboratory course that supports CE 9. Use of surveying instruments and measurement techniques in field setting. Laboratory three hours.

CE 100. Engineering Geology. 2 Units
Prerequisite(s): ENGR 112; may be taken concurrently.
Term Typically Offered: Fall, Spring

Soil and rock mechanics and their relations to geological features influencing design, construction and maintenance of engineering projects. Lectures and field problems.

CE 101. Computer Applications in Civil Engineering. 3 Units
Prerequisite(s): ENGR 30 and CE 4; CE 4 may be taken concurrently.
Term Typically Offered: Fall, Spring

Development of programming- and algorithm-based problem-solving skills in civil engineering using modern programming and scripting languages and scientific computing programs. Application to numerical methods, data science, and visualization.

CE 130. Water Resources Engineering. 3 Units
Prerequisite(s): CE 1, CE 101, ENGR 115, ENGR 132, CE 130L. CE 130L may be taken concurrently. Not currently enrolled in CE 130.
Term Typically Offered: Fall, Spring

Hydrologic and hydraulic fundamentals which are common to water resources projects; introduction to reservoirs, dams, pipelines, channels, hydraulic machinery, ground water, water rights, statistical analysis, engineering economy applications, and water resources planning.

CE 130L. Hydraulics Laboratory. 1 Unit
Prerequisite(s): CE 101 and CE 130. CE 130 may be taken concurrently. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 130L.
Term Typically Offered: Fall, Spring

Laboratory experiments relating the principles of fluid mechanics to real fluid flow. Laboratory three hours.

CE 131. Hydrology. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 131.
Term Typically Offered: Fall only

Introduction to surface water hydrology for engineering. Evapotranspiration and infiltration prediction. Precipitation analysis, hydrograph and flood routing applications for civil engineering. Statistical applications in hydrology.

CE 132. Groundwater Engineering. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 132.
Term Typically Offered: Spring only

Occurrence and movement of groundwater. Groundwater principles, groundwater flow, Darcy's Law, solutions of steady and unsteady flow problems. Confined and unconfined aquifers, leaky aquifers, pumping test design, and groundwater management.

CE 133. Design of Urban Water and Sewer Systems. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 133.
Term Typically Offered: Fall only

Hydraulic design of water distribution and sewerage systems. Computer-assisted pipe network analysis. Analysis of pump systems. Pump station design. Other selected topics.

CE 134. Open Channel Hydraulics. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 134. .
Term Typically Offered: Spring only

Civil engineering design problems in steady, uniform, gradually and rapidly varied open channel flow. Hydraulic analysis in structures, transitions, culverts, weirs and spillways. Channel design including roughness for subcritical and supercritical flow. Prediction of water surface profiles via simulation software.

CE 140. Transportation Engineering. 3 Units
Prerequisite(s): Complete CE 1, CE 9, CE 9L, CE 101, ENGR 115, and CE 140L. CE 140L may be taken concurrently. Not currently enrolled in CE 140.
Term Typically Offered: Fall, Spring

Introduction to the fundamental topics in Transportation Engineering. Focus on roadway geometric design, layout considerations, pavement materials and design, traffic operations and analysis.

CE 140L. Transportation Engineering Laboratory. 1 Unit
Prerequisite(s): Complete CE 1, CE 9, CE 9L, CE 101, ENGR 115, and CE 140. CE 140 may be taken concurrently. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 140L.
Term Typically Offered: Fall, Spring

Laboratory course that supports CE 140. Activities include speed survey and safety assessment, analysis of freeway level of service, analysis of intersection delay and level of service, roadway geometry design, and pavement design using field measurements, online datasets, and state-of-the-practice software. Laboratory three hours.
Note: This course requires safety training. This course requires personal protective equipment (PPE).

CE 141. Traffic Analysis and Design. 3 Units
Prerequisite(s): CE 140 and CE 140L. Not currently enrolled in CE 141.
Term Typically Offered: Spring only

Introduction to the fundamental principles of traffic operations, traffic data collection methods, intersection control, signal design and analysis techniques. Methods and software for designing and optimizing signalized and unsignalized intersection operation.

CE 142. Transportation Systems. 3 Units
Prerequisite(s): CE 140. Not currently enrolled in CE 142.
Term Typically Offered: Fall only

Transportation systems evaluation and management. Focus on transportation planning methods, including data analysis, estimation of future demand, evaluation of travel demand impacts on existing systems, and transportation system decision-making.

CE 146. Civil Engineering Professional Practice. 3 Units
Prerequisite(s): CE 1A and ENGR 30; GWAR; CE 1A may be taken concurrently.
Corequisite(s): CE 1A.
Term Typically Offered: Fall, Spring

Introduction to the legal and business environment of professional engineering practice, including legal responsibilities of professionals, ethics, risk and liability, types and use of contracts, specifications, the construction bid process, and environmental responsibilities. Elements of engineering organizations such as business economics, human resources, and project management.

CE 150. Principles of Environmental Engineering. 2 Units
Prerequisite(s): CHEM 1E or CHEM 1A, ENGR 115, CE 1, CE 101, and CE 150L. CE 150L may be taken concurrently. CE 101 may be taken concurrently. Not currently enrolled in CE 150.
Term Typically Offered: Fall, Spring

Introduction to principles of environmental quality management. Physical and chemical principles affecting environmental quality including equilibrium and kinetics. Water quality parameters, their importance, and natural processes that affect them. Application of thermodynamic principles to environmental systems.

CE 150B. Environmental Engineering Practice. 2 Units
Prerequisite(s): CE 150. Not currently enrolled in CE 150B.
Term Typically Offered: Fall, Spring

Introduction to environmental engineering professional practices. Water and wastewater treatment processes. Solid waste management. Air quality parameters and management. Sustainability.

CE 150L. Environmental Engineering Laboratory. 1 Unit
Prerequisite(s): CHEM 1E or CHEM 1A, ENGR 115, CE 1, CE 101, and CE 150. CE 150 may be taken concurrently. CE 101 may be taken concurrently. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 150L.
Term Typically Offered: Fall, Spring

This is the laboratory course that supports CE 150. Activities include water quality testing and computer modeling. Laboratory three hours.

CE 151. Introduction to GIS in Civil Engineering. 3 Units
Prerequisite(s): ENGR 115, CE 9, and either CE 137, CE 147, CE 170A, or CE 171A.
Term Typically Offered: Fall only

Fundamental geographic information system (GIS) concepts; GIS data acquisition and analysis; GIS analytical methods. Lab exercises with GIS software used to introduce students to typical uses of GIS in civil engineering. This course may be paired with the graduate-level course GIS Applications in Civil Engineering. Lecture two hours; lab three hours.

CE 153. Design of Water Quality Control Processes. 3 Units
Prerequisite(s): CE 150B and ENGR 132. Not currently enrolled in CE 153.
Term Typically Offered: Spring only

Analysis and design of selected physical, chemical, and biological facilities for water purification and wastewater treatment. Emphasis is on design based on loading factors and integration of unit processes into treatment systems.

CE 156. Geoenvironmental Engineering. 3 Units
Prerequisite(s): CE 150B and CE 170; CE 150B may be taken concurrently. Not currently enrolled in CE 156.
Term Typically Offered: Not offered

Equilibrium distribution of contaminants among air, water and solid phases of soil systems; analysis and modeling of soil vapor extraction (SVE), pump and treat, and soil washing systems; movement of gasses in landfills; infiltration through landfill cover; geosynthetic liner systems; hazardous waste containment systems.

CE 160. Introduction to Structural Analysis. 3 Units
Prerequisite(s): CE 1, CE 101, ENGR 112, and (MATH 35 or MATH 100). Not currently enrolled in CE 160.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Analysis of statically determinate and indeterminate beams, frames, and trusses. Includes energy principles, flexibility and stiffness analyses, and influence lines. Computers are used to aid in the solution of complex structural problems.

CE 160L. Structural Laboratory. 1 Unit
Prerequisite(s): CE 101 and ENGR 112. WPJ score of 70+ or equivalent. Not currently enrolled in CE 160L.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Introduction to the principles of structural analysis and design by testing of structural elements. Experimental verification of the assumptions of strength of materials. Introduction to laboratory techniques. Laboratory three hours.
Note: This course requires safety training. This course requires personal protective equipment (PPE).

CE 163. Structural Steel Design. 3 Units
Prerequisite(s): CE 160. Not currently enrolled in CE 163.
Term Typically Offered: Fall, Spring

Theory and practice in design of structural steel members and connections using current design specifications. Design of tension and compression members, laterally supported and unsupported beams, beam-columns, and bolted and welded connections.

CE 164. Reinforced Concrete Design. 3 Units
Prerequisite(s): CE 160 and CE 160L. CE 160L may be taken concurrently. Not currently enrolled in CE 164.
Term Typically Offered: Fall, Spring

Introduction to reinforced concrete design according to American Concrete Institute (ACI) 318 Building Code, including: design and safety concepts; loads and load path; structural systems; material properties; flexural analysis and design of reinforced concrete beams and one-way slabs; development of reinforcement; serviceability; shear; columns; and other topics.

CE 165. Masonry Design. 3 Units
Prerequisite(s): CE 160. Not currently enrolled in CE 165
Term Typically Offered: Spring only

History of masonry. Masonry materials. Masonry as a structural material. Design of masonry beams, concentrically and eccentrically loaded columns, walls for vertical and lateral loading including effects of wind and seismic forces. Design of a small building for wind and seismic loading including torsional effects.

CE 166. Seismic Behavior of Structures. 3 Units
Prerequisite(s): CE 101, CE 160, and ENGR 110. Not currently enrolled in CE 166
Term Typically Offered: Fall, Spring

Analyzes simple structures' response to dynamic loads with emphasis on response to earthquake ground motion. Introduction to multi-story buildings dynamics. Modal and approximate analyses of earthquake response. Dynamic analysis and building code procedures.

CE 168. Prestressed Concrete Design. 3 Units
Prerequisite(s): CE 160 and CE 164. CE 164 may be taken concurrently. Not currently enrolled in CE 168.
Term Typically Offered: Fall only – even years

Introduction to prestressed concrete design, focusing on bridges and buildings. Topics include: basic concepts; technology for fabrication and construction; material properties; flexural analysis and design for non-composite and composite beams; development of strands; prestress losses; camber and deflections; shear; and other topics. Design conforming to American Concrete Institute (ACI) 318 Building Code or AASHTO LRFD Bridge Design Specifications is emphasized, as appropriate.

CE 169. Timber Design. 3 Units
Prerequisite(s): CE 160. Not currently enrolled in CE 169.
Term Typically Offered: Fall only

Wood as a structural material. Design of sawn and glulam beams, concentrically and eccentrically loaded columns, shear walls, flexible diaphragms and connections for vertical and lateral loading including effects of wind and seismic forces.

CE 170. Principles of Environmental Engineering. 4 Units
Prerequisite(s): CHEM 1E or CHEM 1A, CE 1A, CE 101, CE 146, ENGR 115; CE 146 may be taken concurrently
Term Typically Offered: Fall, Spring

Introduction to the principles and practices of environmental quality management. Physical and chemical principles affecting environmental quality. Water and air quality parameters, their importance, and natural processes that affect them. Introduction to treatment processes and waste management. Environmental ethics. Lecture three hours. Laboratory three hours.

CE 170C. Soil Mechanics. 3 Units
Prerequisite(s): CE 1, CE 100, CE 101, ENGR 112, and CE 170L. CE 170L may be taken concurrently. Not currently enrolled in CE 170C.
Term Typically Offered: Fall, Spring

Composition and properties of soils; soil classification; soil compaction; soil-water interaction, including permeability and seepage analyses; soil stresses; soil compressibility, consolidation, and settlement analysis; soil shear strength.

CE 170L. Soil Mechanics Laboratory. 1 Unit
Prerequisite(s): Complete CE 1, CE 100, CE 101, ENGR 112, CE 170C. CE 170C may be taken concurrently. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 170L.
Term Typically Offered: Fall, Spring

Laboratory course that supports CE 170C. Activities include soil testing and analysis of geotechnical site investigation data. Laboratory three hours.

CE 171. Soil Mechanics and Foundation Engineering. 3 Units
Prerequisite(s): CE 170 and CE 170L. Not currently enrolled in CE 171.
Term Typically Offered: Spring only

Lateral earth pressures and principles of retaining wall design; slope stability analysis and principles of slope stabilization design; ultimate bearing capacity of soils, allowable bearing pressures and settlement of structures; principles of foundation design including shallow foundations and deep foundations.

CE 175. Geotechnical Earthquake Engineering. 3 Units
Prerequisite(s): CE 170 and CE 170L. Not currently enrolled in CE 175.
Term Typically Offered: Fall only

Introduction to seismology and seismic hazard analysis; determination of building code design loads; prediction of soil-site effects; evaluation of liquefaction triggering, cyclic softening and associated consequences; introduction to mitigation techniques for liquefaction and ground failure hazards.

CE 182. Introduction to GIS in Civil Engineering. 3 Units
Prerequisite(s): ENGR 115, CE 9, CE 9L, and (CE 130 or CE 140 or CE 150 or CE 170). Not currently enrolled in CE 182.
Term Typically Offered: Fall only

Fundamental geographic information system (GIS) concepts; GIS data acquisition and analysis; GIS analytical methods. Lab exercises with GIS software used to introduce students to typical uses of GIS in civil engineering. This course may be paired with the graduate-level course GIS Applications in Civil Engineering. Lecture two hours; laboratory three hours.

CE 190A. Civil Engineering Project Skills. 3 Units
Prerequisite(s): CE 130 or CE 140 or CE 150 or CE 160 or CE 170. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 190A.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to professional engineering practice through case studies of existing projects, including estimating, scheduling, and specifications. Evaluation of design alternatives for engineering projects using principles of engineering economy and cost benefit analysis. Engineering ethics and professional responsibilities.
Note: This course is intended to be taken in the final year of study before taking CE 191.

CE 191. Senior Project. 3 Units
Prerequisite(s): CE 190
Term Typically Offered: Fall, Spring

Culminating degree requirement. Completion of a conceptual design and evaluation of alternatives under realistic constraints for proposed infrastructure projects. Students work in teams with practicing professionals providing mentoring. Draws upon full educational experience to date. Lecture two hours. Laboratory three hours.
Note: This course must be taken in the final semester.

CE 194. Career Development in Civil Engineering. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Designed for Civil Engineering students making career decisions. Instruction will include effective career planning strategies and techniques including skill assessments, employment search strategy, goal setting, time management, interview techniques and resume writing. Lecture one hour.
Note: Units earned cannot be used to satisfy major requirements. Cross Listed: ENGR 194, EEE194

Credit/No Credit

CE 195. Fieldwork in Civil Engineering. 1 - 3 Units
Prerequisite(s): Petition approval by supervising faculty member and Department chair.
Term Typically Offered: Fall, Spring

Supervised work experience in civil engineering with public agencies or firms in the industry.
Note: May be repeated for credit.

Credit/No Credit

CE 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science.
Note: Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit

CE 196H. Concrete Technology. 3 Units
Prerequisite(s): ENGR 112.
Term Typically Offered: Spring only

History of portland cement, production, hydration, aggregates, supplementary cementitious materials, chemical admixtures, fresh and hardened concrete properties, concrete mixture design, and concrete construction. Introduction to concrete durability, concrete repair, and advances in concrete technology.

CE 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open to students judged capable of carrying out individual work. Admission requires departmental approval and sponsorship of a supervising faculty member. Cannot be used as a technical elective in the major. Consult the CE Department for admission procedures and other requirements. May be repeated.

CE 199E. Independent Study Technical Elective. 3 Units
Prerequisite(s): GPA of 2.5 or greater in the upper division courses of the major; grade of 'B' or better in the required major course associated with the proposed area of study (CE 130 or CE 140 or CE 150 or CE 160 or CE 170).
Term Typically Offered: Fall, Spring

Individual project, research, or directed reading on an advanced topic.
Note: Open to only those students prepared and capable of carrying out independent work.

CE 231A. Computer Methods of Structural Analysis I. 3 Units
Prerequisite(s): CE 161.
Term Typically Offered: Fall only – even years

Flexibility and stiffness methods of structural analysis are applied to two- and three-dimensional framed structures. Use of computer software to perform analysis is discussed in detail. Techniques of computer modeling are discussed.

CE 231B. Computer Methods of Structural Analysis II. 3 Units
Prerequisite(s): CE 231A or instructor permission.
Term Typically Offered: Spring only – odd years

Continuation of CE 231A with extension of theory to allow for the analysis of a wider variety of structures. Structural analysis software is used for the analysis of three-dimensional structures. Fundamentals of the finite element method and computer modeling with applications to structural problems.

CE 232. Nonlinear Structural Analysis. 3 Units
Prerequisite(s): CE 231A or instructor permission.
Term Typically Offered: Spring only – odd years

Theory and applications of nonlinear structural analysis including geometric and material nonlinear effects. Stability issues and second-order analysis methods in the context of moment amplification effects, member buckling, and the behavior of structural elements and frames undergoing large deformations. Inelastic material behavior and stress resultant plasticity concepts within a line-type element framework. Computer implementation of geometric nonlinear behavior.

CE 234. Dynamics and Earthquake Response of Structures. 3 Units
Prerequisite(s): Knowledge of the stiffness method of structural analysis.
Term Typically Offered: Fall only – odd years

Response of structures modeled as single-degree systems to harmonic, periodic, and arbitrary excitation and earthquake ground motion; effects of damping and material nonlinearity; numerical methods using spreadsheets; response spectra. Response of structures modeled as multi-degree systems: modeling of structure mass, damping and elastic stiffness; solution by modal superposition; time-history and response spectrum analysis; implications for codes for earthquake-resistant design. Microcomputer software is extensively used.

CE 235. Advanced Steel Design. 3 Units
Prerequisite(s): CE 163
Term Typically Offered: Spring only – even years

Advanced design methodology of steel structures using Load and Resistance Factor Design (LRFD). System level behavior, especially from a seismic loading perspective, is integrated into the design of steel components and connections. Other topics include plate girder design, plastic design of indeterminate systems, design of moment frame systems, and design of braced-frame systems.

CE 250. Systems Analysis of Resources Development. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Spring only – even years

Investigation of resource planning using the 'systems approach'. Objectives of resource development; basic economic and technologic concepts, and economic factors affecting system design. Consideration of evaluation, institutional constraints, and uncertainty in water resources systems. Familiarization with modern computer techniques. Applications of concepts to air and land resources.

CE 251. Water Resources Planning. 3 Units
Prerequisite(s): CE 250 or instructor permission.
Term Typically Offered: Fall only – odd years

Application of single and multi-objective planning to the design and operation of water resources projects. Objectives and constraints for water projects, criteria and procedures for evaluation, planning under uncertainty. Application in water development and water quality planning, with case studies.

CE 252A. Environmental Quality Processes I. 3 Units
Prerequisite(s): CE 170 or equivalent.
Term Typically Offered: Fall, Spring

Theory and practice of chemical processes affecting water quality. Chemical equilibrium, stoichiometry and kinetics of aqueous chemistry. Acid-base, precipitation-dissolution, oxidation-reduction, and coordination chemistry. Adsorption.

CE 252B. Environmental Quality Processes II. 3 Units
Prerequisite(s): CE 170 or equivalent, CE 252A recommended, or instructor permission.
Term Typically Offered: Fall, Spring

Theory and practice of biological processes for controlling water. Stoichiometry and kinetics of microbial growth. Aerobic and anaerobic metabolism. Engineered suspended and attached growth systems. Introduction to sludge treatment.

CE 252C. Environmental Quality Processes III. 3 Units
Prerequisite(s): CE 170 or equivalent, CE 252A recommended, or instructor permission.
Term Typically Offered: Fall, Spring

Theory and practice of physical and chemical processes used in engineered water and wastewater systems. Adsorption, ion exchange, gas transfer, membrane processes, coagulation, flocculation, sedimentation, filtration, precipitation, disinfection, and stripping. Physical/chemical reactors.

CE 254. Water Quality Management. 3 Units
Prerequisite(s): CE 170 or equivalent, CE 252A recommended, or instructor permission.
Term Typically Offered: Fall, Spring

Examination of pollution sources and effects on water bodies, and the management issues and tools used to protect environmental quality. Topics include point and nonpoint pollution sources, interactions in the environment, Federal and State laws, water quality objectives, beneficial uses, and regulatory mechanisms such as basin plans and total maximum daily loads (TMDLs). Emphasis is on surface water.

CE 255. Transport of Chemicals in Soil Systems. 3 Units
Prerequisite(s): MATH 45. Graduate status.
Term Typically Offered: Fall, Spring

Study of the mechanics of movement of chemicals in soil, including equilibrium and partition models, development of mass transport equations in porous media, analytical solution for one-dimensional transport, lumped parameter transport model (linear reservoir model), transport of reactive and conservative chemicals numerical solutions of transport models, transport in the unsaturated zone and coupled models for saturated and unsaturated zone.

CE 261. Transportation Planning. 3 Units
Prerequisite(s): CE 148 or instructor permission.
Term Typically Offered: Fall only – odd years

Introduction to the complexities of comprehensive intermodal transportation planning. Study of transportation problems, system operating characteristics, alternative modes, and the planning process. Analyzes factors affecting travel behavior and methods of forecasting demand for travel by various modes.

CE 262. Advanced Transportation Facility Design. 3 Units
Prerequisite(s): CE 147 or instructor permission.
Term Typically Offered: Fall only – even years

Advanced study of current topics in highway and mass transportation facility design including safety, curve design, pavement design and drainage facility design. Focuses on current design practice and recent or impending changes in design practice.

CE 263. Traffic Flow Theory. 3 Units
Prerequisite(s): CE 147 or CE 148; ENGR 203 or instructor permission.
Term Typically Offered: Fall only – even years

Study of traffic flow characteristics including flow rate, speed, and density, at both the microscopic and macroscopic levels. Traffic flow analysis using the theoretical methods including capacity analysis, traffic stream models, shockwave analysis, and queuing analysis. Emphasis is on theory with demonstration of practical applications.

CE 265. Analysis and Control of Traffic Systems. 3 Units
Prerequisite(s): CE 147 or CE 148; CE 263 or instructor permission.
Term Typically Offered: Fall only – odd years

Traffic data collection and analysis, practical application of theoretical methods of analysis such as capacity, level of service, and queuing theory. Investigation of traffic control techniques such as actuated signals and signal systems, and study of management techniques for traffic congestion.

CE 266. Advanced Design in Reinforced Concrete. 3 Units
Prerequisite(s): CE 161, CE 163, CE 164.
Term Typically Offered: Spring only – even years

Advanced topics in behavior and design in reinforced concrete. Detailing for seismic response.

CE 267. Structural Systems for Buildings. 3 Units
Prerequisite(s): CE 232 or instructor permission.
Term Typically Offered: Spring only – even years

Analyzes and design of various structural systems for buildings: frames, tubes, shear walls with or without openings and interaction between these types. Secondary effects such as P^, material and geometrical nonlinearities.

CE 268. Pre-stressed Concrete Bridge Design. 3 Units
Prerequisite(s): CE 164 or instructor approval.
Term Typically Offered: Fall only – even years

Behavior and design of short and medium-span prestressed concrete bridges using American Association of State Highway and Transportation Officials (AASHTO) Load Resistance Factor Design (LRFD) specifications. Topics include: bridge types, aesthetics; design process; superstructure load types and live load analysis; limit states and load combinations; prestressed concrete materials; flexural analysis and design; shear analysis and design; and introduction to substructure analysis and design, including seismic design criteria. A team project is required.

CE 269. Pavement Design. 3 Units
Prerequisite(s): CE 147 and CE 171A.
Term Typically Offered: Spring only – even years

Fundamental principles of pavement analysis, design, and evaluation. Topics include pavement materials, mechanics, traffic and environmental loadings, pavement performance, design methods, construction and economic evaluation.

CE 271. Modern Hydrologic Techniques. 3 Units
Prerequisite(s): CE 137 or CE 138 and ENGR 203 or instructor permission.
Term Typically Offered: Spring only – even years

Analyses of hydrologic and meteorologic phenomena by mathematical, statistical, and system methods, linear and non linear, stochastic and parametric hydrology, computer applications in hydrology.

CE 272. Advanced Engineering Hydraulics. 3 Units
Prerequisite(s): CE 137 or equivalent.
Term Typically Offered: Spring only – even years

Steady uniform and non-uniform open channel flows including gradually, rapid and spatially varied flows; analysis of supercritical flow in transition; basic principles of unsteady flows; long wave theory; Saint-Venant Equations and their solutions including method of characteristics, explicit and implicit finite difference numerical methods.

CE 274. Hydrologic Modeling. 3 Units
Prerequisite(s): CE 272 or equivalent; instructor permission.
Term Typically Offered: Spring only – odd years

Theories and structure of hydraulic model components; application of HEC-RAS (River Analysis System) and HEC-HMS (Hydrologic Modeling System) computer programs; emphasis on flood routing methods; dam safety analysis methodology including dam break and dam overtopping cases; application of microcomputers in hydraulics computations.

CE 276. Groundwater Hydrology. 3 Units
Prerequisite(s): CE 137 or instructor permission.
Term Typically Offered: Fall only – even years

Occurrence and movement of groundwater; physical characteristics of aquifers; analysis of steady-state groundwater flow problems by mathematical, digital computer, electrical analog and graphical methods; analysis of unsteady-state problems in confined and unconfined, aquifers; multiple well systems.

CE 280A. Advanced Soil Mechanics and Foundation Engineering I. 3 Units
Prerequisite(s): CE 171A or equivalent.
Term Typically Offered: Fall only – even years

Advanced analyses in soil mechanics and their practical applications in foundation engineering; compressibility of soils, settlement analysis, and tolerable settlement; lateral earth pressures and design of earth retaining structures; bearing capacity of shallow foundations; in-situ soil testing for foundation design; design of deep foundations, including driven piles, drilled shaft foundations, and laterally loaded piles.

CE 280B. Advanced Soil Mechanics and Foundation Engineering II. 3 Units
Prerequisite(s): CE 171A or equivalent.
Term Typically Offered: Fall only – odd years

Advanced analyses in shear strength of cohesionless and cohesive soils, including stress-strain characteristics of soils, total and effective stress analyses; slope stability analyses for natural slopes, fill slopes, earth dams, levees, and methods of slope stabilization; analysis and design of anchored bulkheads, cellular cofferdams, soil nail walls, tieback walls, mechanically stabilized earth walls, and segmental retaining walls.

CE 280C. Geotechnical Modeling. 3 Units
Prerequisite(s): CE 171A
Term Typically Offered: Fall only – even years

Advanced analysis principles and procedures for calculating monotonic and cyclic soil element response effective stress and pore water pressure distributions, dynamic site response, and soil deformations; application to analysis of complex geotechnical engineering systems such as levees, dams, and wharfs. Laboratory time devoted to numerical analysis software and physical element and small scale tests. Lecture two hours. Laboratory three hours.

CE 283. Ground Modification Engineering. 3 Units
Prerequisite(s): CE 171A or equivalent.
Term Typically Offered: Fall, Spring

Principles of soil stabilization and earth reinforcement; mechanical compaction and treatment of difficult soils, including expansive soils, collapsible soils, oversize materials, and compressible fill; prefabricated vertical drains and preloading; dynamic deep compaction; vibro compaction; vibro-replacement; rammed aggregate pier; compaction grouting; jet grouting; slurry grouting; chemical grouting; deep soil mixing; slurry trench walls.

CE 284. Soil Dynamics and Earthquake Engineering. 3 Units
Prerequisite(s): CE 171A or equivalent.
Term Typically Offered: Spring only – odd years

Introduction to vibration theory; wave propagation in soils and dynamic behavior of soils and foundations; dynamic tests; analysis of dynamically loaded foundations; causes of earthquakes; earthquake magnitude and zones; ground motions induced by earthquakes; earthquake-resistant design of foundations and earth dams.

CE 285. Geosynthetics I. 3 Units
Prerequisite(s): CE 171A or instructor permission.
Term Typically Offered: Fall only – even years

Overview of geotextiles, geogrids and geonets; geosynthetic properties and test methods; geosynthetic functions and mechanisms as in separation, roadway and soil reinforcement, filtration, and drainage; applications and design methods; construction, fabrication and installation.

CE 286. Geosynthetics II. 3 Units
Prerequisite(s): CE 171A or instructor permission.
Term Typically Offered: Fall, Spring

Overview of geomembranes, geosynthetic clay liners, and geocomposities. Topics include: geosynthetic properties and test methods; geosynthetic functions and mechanisms as in landfill liners, liquid barriers and carriers, erosion control, drainage, and design and construction methods.

CE 289. Project Management for Civil Engineers. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Spring only

Theory and practice of project management in civil engineering. Interrelationship of planning, design, and construction. New technologies and techniques used in both US and international architectural/engineering/construction (A/E/C) markets.Topics: Project initiation, early estimates, project budgeting, work plans, design proposals, scheduling, tracking, design coordination, construction, project close-out, team and personal management skills, and quality control.

CE 296D. Stormwater Management. 3 Units
Prerequisite(s): CE 137 and CE 170
Term Typically Offered: Fall, Spring

Principles and practices of stormwater management. Physical and chemical principles affecting stormwater quality, environmental effects, and treatment. Regulatory purposes and requirements for managing construction and post-construction runoff. Choosing and designing Best Management Practices. Erosion control. Hydrologic and hydraulic design of small drainage systems. Emphasis on California climatic and regulatory conditions.

CE 296H. GIS Applications in Civil Engineering. 3 Units
Prerequisite(s): ENGR 115, CE 9 and CE 137 or CE 147 or CE 171A.
Term Typically Offered: Fall, Spring

Introduction to fundamental concepts of geographic information systems (GIS), methods, and applications in civil engineering. Design and develop GIS-based analytical methods and solutions for civil engineering problems. Lab exercises are used to design and practice GIS applications in civil engineering. This course may be paired with CE 196H.

CE 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Special problems in graduate research.
Note: Approval of a petition must be obtained from the faculty supervising the work and the Department Graduate Program Coordinator. Letter grade or Credit/No Credit.

Credit/No Credit

CE 500. Culminating Experience. 3 - 6 Units
Prerequisite(s): Advanced to candidacy and permission of the faculty advisor and Department Chair.
Term Typically Offered: Fall, Spring

Successful completion of either: A. Thesis (3-6 units), or B. Project (3-6 units) or C. Directed Study and Examination (3 units). Plan A requires a thesis and is primarily research-orientated. Plan B requires a project report that is primarily application oriented. Plan C requires a detailed literature review or experimental data analysis resulting in a written report plus an examination by three faculty. A public presentation is required for all three plans.

BS in Civil Engineering

Units required for Major: 94 including GE courses
Total units required for BS: 124

Program Description

Civil Engineering involves the application of scientific principles and knowledge of mathematics and computers to the planning, analysis, design, and construction of all types of private and public works. Reduction of air and water pollution, disposal of hazardous wastes, renewal of our old cities, planning and building of new communities, providing water, power, and high-speed ground transportation systems are the responsibilities of the civil engineer. It is a continual challenge to the civil engineer to provide these services efficiently by the construction of dams, buildings, bridges, tunnels, highways, airports, waterways, and waste handling facilities in harmony with the natural environment.

Because of the broad range of demands on the civil engineer's services, the undergraduate program is devoted to fundamental principles in mathematics; basic and engineering sciences; the spectrum of Civil Engineering practice in both analysis and design; and required courses in the humanities and the social sciences, so that engineers may better relate to the world and society they serve. The upper division program permits students to select 12 units (4 courses) of electives. Students may increase the breadth or depth of their knowledge in Civil Engineering by selecting these electives in several areas: environmental and water quality engineering, geotechnical engineering, structural engineering, transportation, and water resources engineering.

Courses may be interchanged between semesters to accommodate the student's schedule, as long as prerequisites are observed. Civil engineering is a demanding major, but with devoted study it can be completed in four years. Students who are working half-time or more often find it difficult to successfully pass a full load of classes each semester. Such students should plan to take fewer units per semester and a longer time to finish their degree.

Note: Students must satisfy the requirements of the Accreditation Board for Engineering and Technology (EAC/ABET). Consult the

Civil Engineering Department Chair for specific General Education requirements.

Note: Students graduating with a BS in Civil Engineering will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Program Requirements

Code	Title	Units
Required Lower Division Courses (65 Units)		
First Semester Freshman Year		
CE 1	Civil Engineering Seminar	1
CE 4	Engineering Graphics and CAD [1]	2
CHEM 1E	General Chemistry for Engineering [1]	4
MATH 30	Calculus I [1]	4
Select two General Education courses		6
Second Semester Freshman Year		
CE 9	Plane and Topographic Surveying	2
CE 9L	Plane and Topographic Surveying Laboratory	1
MATH 31	Calculus II [1]	4
PHYS 11A	General Physics: Mechanics [1]	4
Select two General Education courses		6
First Semester Sophomore Year		
ENGR 45	Engineering Materials	3
MATH 45	Differential Equations for Science and Engineering	3
PHYS 11C	General Physics: Electricity and Magnetism [1]	4
Select two General Education courses		6
Second Semester Sophomore Year		
ENGL 20	College Composition II	3
ENGR 30	Analytic Mechanics: Statics	3
MATH 35	Introduction to Linear Algebra	3
or MATH 100	Applied Linear Algebra	
Select two General Education courses		6
Required Upper Division Courses (59 Units) [2]		
First Semester Junior Year		
CE 101	Computer Applications in Civil Engineering	3
ENGR 110	Analytic Mechanics - Dynamics	3
ENGR 112	Mechanics Of Materials	3
ENGR 115	Statistics For Engineers	3
ENGR 132	Fluid Mechanics	3
Second Semester Junior Year		
CE 100	Engineering Geology	2
CE 130	Water Resources Engineering	3
CE 130L	Hydraulics Laboratory	1
CE 150	Principles of Environmental Engineering	2
CE 150L	Environmental Engineering Laboratory	1
CE 160	Introduction to Structural Analysis	3
Select General Education course		3
First Semester Senior Year		
CE 140	Transportation Engineering	3
CE 140L	Transportation Engineering Laboratory	1
CE 150B	Environmental Engineering Practice	2
CE 170C	Soil Mechanics	3
CE 170L	Soil Mechanics Laboratory	1
CE 190A	Civil Engineering Project Skills [1]	3
Select Civil Engineering elective [3]		3
Second Semester Senior Year		
CE 160L	Structural Laboratory	1
CE 191	Senior Project	3
Select three Civil Engineering electives [3]		9
Civil Engineering Electives		
Select from the following: [4]		
CE 131	Hydrology	
CE 132	Groundwater Engineering	
CE 133	Design of Urban Water and Sewer Systems	
CE 134	Open Channel Hydraulics	
CE 141	Traffic Analysis and Design	
CE 142	Transportation Systems	
CE 151	Introduction to GIS in Civil Engineering	
CE 153	Design of Water Quality Control Processes	
CE 156	Geoenvironmental Engineering	
CE 163	Structural Steel Design [5]	
CE 164	Reinforced Concrete Design [5]	
CE 165	Masonry Design	
CE 166	Seismic Behavior of Structures	
CE 168	Prestressed Concrete Design [5]	
CE 169	Timber Design	
CE 171	Soil Mechanics and Foundation Engineering	
CE 175	Geotechnical Earthquake Engineering	
ENGR 124	Thermodynamics	
Total Units		124

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Students must normally complete all lower division preparation before enrolling in upper division Engineering or Civil Engineering courses.
3. At least two Civil Engineering electives must be design courses (indicated by [5]).
4. Electives are to be chosen from these courses in consultation with a faculty advisor and must include at least two design electives (indicated by [5]).
   Note: Other electives, such as a CE 196 series course or CE 199E may be chosen with the approval of a faculty advisor and Department Chair.
5. Indicates a design elective.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3

B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]	0
B4 - Math Concepts [2]	0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]	0
Area C: Arts and Humanities (12 Units)	
C1 - Arts	3
C2 - Humanities	3
C1/C2 - Area Course C	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (9 Units)	
Area D Course	3
Area D Course	3
Area D Course	3
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]	0
Area E: Understanding Personal Development	
Area E Course [2]	0
Total Units	30

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (3 Units)		
English Composition II [2]		0
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Civil Engineering are exempt from the Foreign Language Graduation Requirement.

MS in Civil Engineering

Total units required for the MS: 30 - Includes research or independent study and units required in area of specialization (see Program Requirements below)

Program Description

Civil Engineering encompasses a broad range of professional activities. The four years of undergraduate preparation for the Bachelor of Science degree are devoted to fundamental analytical principles and basic design applications. For technical competence in specialized areas and continued effectiveness on the job, graduate study is becoming increasingly necessary.

The Civil Engineering Department offers a graduate program of study leading to a Master of Science degree in Civil Engineering in the following areas of specialization:

- **Environmental/Water Quality Engineering** - water quality analysis and management, water, and waste treatment;
- **Geotechnical Engineering -** properties and behavior of soil and their application to design of foundation, retaining structures, earth dams and slopes, soil improvement and ground stabilization, geosynthetics inclusions, and soil dynamics, and earthquake engineering;
- **Structural Engineering -** earthquake resistant steel and concrete design applied to buildings and bridges, structural dynamics, structural mechanics, and finite element methods;
- **Transportation Engineering** - Transportation engineering and planning, traffic flow theory, and system management applicable to all modes with emphasis on highway and multi modal transportation; interdisciplinary study with other areas of Civil Engineering as well as with non-engineering areas (e.g., Environmental Studies, Geography, Public Policy & Administration, and Business Administration) may also be arranged; and
- **Water Resources Engineering** - advanced hydraulics and modern hydrologic techniques, flood forecasting, groundwater flow modeling, water resources management, and policy formulation.

Each area of concentration consists of a set of core courses, a choice of electives, and culminating requirements; all selected by the student and approved by an advisor. Practicing engineers who do not have a degree objective may choose to enroll in selected courses as part of a continuing education program.

Graduate students can also elect an emphasis in **Engineering Management** by taking elective courses in the College of Business Administration. Graduate students who are interested in this option can select up to 9 units of foundation courses and/or graduate business classes (refer to College of Business Administration catalog for listing of courses). Individual programs can be tailored with a faculty advisor.

Graduate brochures specifically describing the program in each area are available in the Department Office. Some graduate assistantships

are available to qualified students. Application forms for these can be obtained from the Department or from the Office of Graduate Studies, River Front Center 215, (916) 278-6470.

Admission Requirements

Admission as a classified graduate student in Civil Engineering requires:

- an undergraduate degree in Civil Engineering; and
- a minimum 2.8 GPA both overall and in upper division engineering courses.

In addition, the merit of past academic endeavor, potential for future study, and professional goals may also be considered for granting admission.

Applicants who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status.

Students with a baccalaureate degree in engineering majors other than Civil Engineering (e.g., Electrical and Electronic, Industrial, Mechanical, or Surveying) or in other non-engineering scientific disciplines (e.g., Mathematics, Physics, or Geology) who wish to pursue the graduate program in Civil Engineering may be considered on an individual basis. Such students may be admitted as conditionally classified students and will be required to complete a specifically designed list of undergraduate prerequisite courses in engineering and/or mathematics, physics, and chemistry to correct undergraduate deficiencies. Such a student must have an approved study program on file with the Department while undertaking this qualifying work. Upon completion of these courses with a GPA of 2.8 or better, the student may apply for classified graduate status in Civil Engineering.

Admission Procedures

All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies:

- an online application for admission; and
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State*.
- GRE scores if a student does not have an ABET-accredited engineering degree or meet the minimum 2.8 GPA requirement.

For more admissions information and application deadlines, please visit the Office of Graduate Studies website *(*http://csus.edu/gradstudies/*)*.

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant. After being admitted, students must meet with an advisor and complete a Graduate Student Advising Form (obtainable in the Civil Engineering Department). This advising form must be kept current and on file in the Department Office.

Minimum Units and Grade Requirements for the Degree

Total units Required for the MS: 30; includes research or independent study and units required in area of concentration (see Program Requirements below)

Minimum Cumulative GPA: 3.0. No course in the program of study may have a grade below 'C+'.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the graduate student has:

- removed any deficiencies in admission requirements;
- obtained classified graduate status;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least three courses at the 200-level;
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver; and
- selected and obtained approval for a culminating requirement (Plan A, B, or C).

Advancement to Candidacy forms are available in the Department and in the Office of Graduate Studies. The student fills out the form after planning a degree program in consultation with his or her faculty advisor. The completed form is then approved by the Graduate Coordinator of the Department and submitted to the Office of Graduate Studies.

All graduate degree programs are subject to general University requirements for graduate degrees, explained in the *Graduate Studies* section of this catalog.

Program Requirements

Code	Title	Units
Required coursework (18 Units)		
Core Courses		
15 units are required as outlined in the Core Courses section below		15
Mathematics/Statistics		
Select one of the following: [1]		3
ENGR 201	Engineering Analysis I	
ENGR 202	Engineering Analysis II	
ENGR 203	Engineering Statistics	
Elective Courses		**6 - 9**
Select 6 or 9 units of electives [2,3]		
Culminating Requirement		**3 - 6**
Select one of the following CE 500 requirements: [3]		
Plan A		
Master's Thesis (3 or 6 units) Approval by the faculty thesis advisor and by a second faculty or an expert in the area of study is required. The thesis must comply with University standards for format and is filed in the University Library. The Master's Thesis should be the written product of a systematic study of a significant problem. It identifies the problem, states the major assumptions, explains the significance of the undertaking, sets forth the sources for and methods of gathering information, analyze the data, and offers a conclusion or recommendation. The finished product evidences originality, critical and independent thinking, appropriate organization and format, and thorough documentation. The work should be associated with engineering research or innovation. No more than 3 units may be awarded for a topic directly related to a topic studied of CE 299. A public presentation is required.		
Plan B		

Master's Project (3 or 6 units) Approval by the faculty thesis advisor and by a second faculty or an expert in the area of study is required. A Master's Project should be a significant undertaking appropriate to the engineering profession. It evidences originality and independent thinking, appropriate form and organization, and rationale. It is described and summarized in a written report that includes a discussion of the project's significance, objectives, methodology and a conclusion or recommendation. The work should be associated with practical engineering applications. The report must comply with University standards for format and will be filed in the University Library. No more than 3 units may be awarded for a topic directly related to a topic studied for CE 299. A public presentation is required.	
Plan C	
Directed Study (3 units) and Comprehensive Examination (0 units). Approval of one faculty member is required for Directed Study. The comprehensive examination is administered by a committee of three faculty members. A public presentation is required on the directed study. The format of the comprehensive examination can be written, oral, or both.	
Total Units	30

[1] With advisor approval. Students pursuing an emphasis in Environmental Engineering, Water Resource Engineering or Transportation Engineering must take ENGR 203. Students pursuing an emphasis in Structural Engineering must take ENGR 201 or ENGR 202.

[2] Elective courses (including CE 299) selected with prior approval of the student's faculty advisor in the area of interest. In addition to 200-level courses, these may also include the technical electives (but not the required courses) from the undergraduate curriculum. Not more than 3 units of CE 299 may be taken without prior approval of the Graduate Coordinator.
Students who are interested in emphasizing **Engineering Management** may select 9 units of elective courses from the College of Business Administration (refer to foundation courses and/or graduate courses offered by the College of Business Administration). Under this option students should work with a faculty advisor to develop a plan for the management elective courses.

[3] Totals required units for degree is 30, variable units are listed due to variable culminating requirement units.

Core Courses

Units required: 15 -- a minimum of 12 units must be taken from one of the following five areas of specialization. Up to 3 units can be satisfied by 200 level coursework (not including CE 299) outside the chosen area of specialization.

Code	Title	Units
Environmental/Water Quality Engineering (21 Units)		
CE 250	Systems Analysis of Resources Development	3
CE 252A	Environmental Quality Processes I	3
CE 252B	Environmental Quality Processes II	3
CE 252C	Environmental Quality Processes III	3
CE 254	Water Quality Management	3
CE 255	Transport of Chemicals in Soil Systems	3
CE 276	Groundwater Hydrology	3
Geotechnical Engineering (21 Units)		
CE 280A	Advanced Soil Mechanics and Foundation Engineering I	3
CE 280B	Advanced Soil Mechanics and Foundation Engineering II	3
CE 280C	Geotechnical Modeling	3
CE 283	Ground Modification Engineering	3
CE 284	Soil Dynamics and Earthquake Engineering	3
CE 285	Geosynthetics I	3
CE 286	Geosynthetics II	3
Structural Engineering (21 Units)		
CE 231A	Computer Methods of Structural Analysis I	3
CE 231B	Computer Methods of Structural Analysis II	3
CE 232	Nonlinear Structural Analysis	3
CE 234	Dynamics and Earthquake Response of Structures	3
CE 235	Advanced Steel Design	3
CE 266	Advanced Design in Reinforced Concrete	3
CE 267	Structural Systems for Buildings	3
Transportation Engineering (18 Units)		
CE 261	Transportation Planning	3
CE 262	Advanced Transportation Facility Design	3
CE 263	Traffic Flow Theory	3
CE 265	Analysis and Control of Traffic Systems	3
CE 269	Pavement Design	3
CE 285	Geosynthetics I	3
Water Resources Engineering (18 Units)		
CE 250	Systems Analysis of Resources Development	3
CE 251	Water Resources Planning	3
CE 271	Modern Hydrologic Techniques	3
CE 272	Advanced Engineering Hydraulics	3
CE 274	Hydrologic Modeling	3
CE 276	Groundwater Hydrology	3

Computer Engineering

College of Engineering and Computer Science

Program Description

Computer Engineering is one of the newest areas of engineering, a dynamic field that thrives on innovation and challenges. Business, industry, and home applications create the need for products that often can be used both for work as well as for entertainment. In the high technology areas of the United States, Sacramento included, Computer Engineering has experienced tremendous growth, becoming one of the major driving forces behind the rapidly advancing electronics and computer industry. Employment projections consistently predict that computer engineering and computer science will continue to experience more than a doubling of growth in a ten-year period.

Nationally, nearly all engineering universities offer a degree in Computer Engineering. Being close in course content to Electrical Engineering and to Computer Science, these degrees are found in various departmental and program configurations. At Sacramento State, Computer Engineering enjoys the advantage of both areas since it is a program jointly supported by the Electrical and Electronic Engineering Department and the Computer Science Department.

Lower division preparation in Computer Engineering parallels that of Computer Science, with the addition of a basic electrical circuit course and a logic design course. Except for the logic design course, most community colleges offer sufficient lower division courses in mathematics, chemistry, physics, and most importantly, computer science.

Degree Programs

BS in Computer Engineering (p. 567)

MS in Computer Engineering (p. 568)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Computer Engineering is also individually accredited by ABET, Inc.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

- Due to numerous generous donations from supportive industries, the computer engineering labs are well equipped with servers and workstations, and with software development tools for VLSI application-specific integrated circuits. Industries donate large electronic devices (FPGAs, CPUs) to each student in computer engineering laboratories.
- The Sacramento State Computer Engineering BS degree is accredited by the Engineering Accreditation Commission (EAC) of ABET, www.abet.org (http://www.abet.org/). Computer Engineering faculty value accreditation very highly.
- A mechanism of maintaining currency in technology, curriculum review, and outcomes assessment is in place to assure the university and graduates of the continued growth and high quality of the program.

Program Educational Objectives

The objectives of this program are to prepare graduates to:

- enter professional employment and/or graduate study in computer engineering areas, such as logic design, computer architecture, processor hardware, and computer systems;
- identify, analyze, and solve practical computer engineering problems using both hardware and software design tools and techniques;
- work cooperatively and communicate effectively through speaking, writing, and graphics, with peers, with multi-disciplinary teams, and with the general public;
- practice computer engineering in a professionally responsible and ethical manner; and
- anticipate changes in one's own career with respect to changing technology and shifting societal needs for the application of computer engineering.

Career Possibilities

Computer Engineer · Computer Architect · ASIC Designer · Chip Architect · VLSI Engineer · Real Time System Design Engineer · Design Engineer · Hardware Engineer · Software Engineer · Systems Engineer · Applications Engineer · Networking Engineer · Control Engineer · Marketing Engineer · Data Communications Engineer · Project Engineer · Research Engineer · Consulting Engineer · Test Engineer · Production Engineer · Telecommunications Engineer · Solid State Engineer · DSP Engineer

Contact Information

Behnam Arad, Program Coordinator
Email the Computer Engineering Program Coordinator (arad@csus.edu) or (916) 278-6139
Veronica Pruitt, Administrative Support Coordinator
Riverside Hall 3018
(916) 278-6844
Computer Engineering Program Website (http://www.ecs.csus.edu/cpe/)

Faculty

ARAD, BEHNAM

DAHLQUIST, DENNIS

GHANSAH, ISAAC

HEEDLEY, PERRY

MEDURI, PRAVEEN

OUYANG, JINSONG

PANG, JING

SHOBAKI, GHASSAN

SUN, XIAOYAN

VADHVA, SURESH

CPE 64. Introduction to Logic Design. 4 Units
Prerequisite(s): CSC 15 or CSC 25 or ENGR 50.
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Covers the following topics: logic gates, binary number system, conversion between number systems, Boolean algebra, Karnaugh maps, combinational logic, digital logic design, flip-flops, programmable logic devices (PLDs), counters, registers, memories, state machines, designing combinational logic and state machines into PLDs, and basic computer architecture. Lab emphasizes the use of software equation entry design tools, the use of a schematic entry, and the use of a logic simulation design tool. Lab assignments are design-oriented. Lecture three hours; laboratory three hours.
Cross listed: EEE 64

CPE 64W. Introduction to Logic Design Workshop. 1 Unit
Corequisite(s): CPE 64.
Term Typically Offered: Fall, Spring

Designated to assist students in developing a more thorough understanding of logic simulation and logic design. Focus is on problem solving and design. Activity two hours.
Cross Listed: EEE 64W; only one may be counted for credit.

Credit/No Credit

CPE 138. Computer Networks and Internets. 3 Units
Prerequisite(s): CSC 35, CSC 60, CSC 130.
Term Typically Offered: Fall, Spring

Overview of the fundamentals of computer networks and connections between networks, from the physical layer up through peer-to-peer communications at the application level. Lower layer characteristics including serial vs. parallel, capacity issues, high-speed connections, LAN framing and error handling. LAN vs. WAN characteristics, network architecture and the ISO network model. Internetworking components including LANs, repeaters, routers, bridges, and gateways. Internet addresses, TCP/IP, and the Domain Name System. Common Internet client/server application protocols including SMTP and FTP. Client/Server programming involving sockets. World Wide Web characteristics including CGI and HTTP protocol, Web pages, Web browsers, Web servers, and Applets. Introduction to advanced Web issues such as Web security, Search engine operations, and Web database operations.
Cross Listed: CSC 138; only one may be counted for credit.

CPE 142. Advanced Computer Organization. 3 Units
Prerequisite(s): CSC 137 or CPE 166 and CPE 185.
Term Typically Offered: Fall, Spring

Design and performance issues of computers. Instruction set architecture, computer arithmetic, processor design, survey of contemporary architectures, interfacing I/O devices, hierarchal memory design and analysis, parallelism and multiprocessing, distributed systems, techniques for enhancing performance, and an introduction to EDA tools for design and verification of computers. Design and simulation of a microcomputer in an HDL.
Note: Open to students with full CSC or CPE major standing only. Cross Listed: CPE 142; only one may be counted for credit.

CPE 144. Dsp Architecture Design. 3 Units
Prerequisite(s): CPE 142.
Term Typically Offered: Fall, Spring

Fundamental principles of Digital Signal Processing (DSP): sampling theory, aliasing effects, frequency response, Finite Impulse Response filters, Infinite Impulse Response filters, spectrum analysis, Z transforms, Discrete Fourier Transform, and Fast Fourier Transform. Emphasis on hardware design to achieve high-speed real and complex multiplications and additions. Pipelining, Harvard, and modified Harvard architectures are included. Concludes with architectural overviews of modern DSP applications: modems, speech processing, audio and video compression and expansion, and cellular.

CPE 151. Cmos And Vlsi. 3 Units
Prerequisite(s): CPE 64 and EEE 108.
Term Typically Offered: Fall, Spring

Begins with an introduction to CMOS gates and design of CMOS combinational and sequential functions at the gate level, including CMOS memory. The theory of MOS transistors is covered including: DC equations, threshold voltage, body effect, subthreshold region, channel length modulation, tunneling, punch through, basic CMOS invertor, and the CMOS transmission gate. A basic exposure to VLSI includes the following topics: CMOS processing technology, CMOS layout, CMOS circuit design and CMOS logic design. Simulations on SPICE and basic VLSI layouts using LEDIT will be included.

CPE 153. Vlsi Design. 3 Units
Prerequisite(s): CPE 151.
Term Typically Offered: Fall, Spring

Review basic CMOS VLSI technology, circuit characterization and performance estimation, and provides detailed information on synthesis, placing and routing, clocking strategies, quality and reliability, and I/O structures. Design examples, design techniques, and testing techniques will be presented via current EDA design tools. Students assigned one project from concept design through validation.

CPE 159. Operating System Pragmatics. 3 Units
Prerequisite(s): CSC 139.
Term Typically Offered: Fall, Spring

Application of operating system principles to the design and implementation of a multi-tasking operating system. Students will write an operating system for a computer system. Topics include scheduling of processes, control and allocation of computer resources and user interfacing.
Cross Listed: CSC 159; only one may be counted for credit.

CPE 166. Advanced Logic Design. 4 Units
Prerequisite(s): CPE 64, ENGR 17.
Term Typically Offered: Fall, Spring

VHDL and Verilog Hardware Description Languages are studied and used on the following advanced level logic design topics: synchronous state machines, asynchronous state machines, metastability, hazards, races, testability, boundary scan, scan chains, and built-in self-tests. Commercial Electronic Design Automation (EDA) toolsets are used to synthesize lab projects containing a hierarchy of modules into Field Programmable Gate Arrays (FPGAs). Post synthesis simulations by these same tools verify the design before implementation on rapid prototyping boards in the lab.

CPE 185. Computer Interfacing. 4 Units
Prerequisite(s): CPE 64, CSC 35 and CSC 60.
Term Typically Offered: Fall, Spring

Design of microcomputer systems including memory systems, parallel and serial input/output, timer modules, and interrupt structures; designing 'C' language code, in laboratory, to exercise interface modules of parallel and serial input/output, timer modules, and interrupts; extensive study of interrupt handlers, assemblers, linkers, and loaders. Practical features of interfaces, handshaking techniques, displays, keypads, and trackballs are included.

CPE 186. Computer Hardware System Design. 3 Units
Prerequisite(s): CPE 185 or EEE 174.
Term Typically Offered: Fall, Spring

Study of Intel and Motorola architectures, bus structures, interrupts, memory interface and controllers, bus arbitration, DMA controllers, I/O interface, bridges and microcontroller. Electromagnetic compatibility and regulations, cabling and shielding, grounding, digital circuit noise and layout.

CPE 187. Embedded Systems Design. 3 Units
Prerequisite(s): CPE 185 or EEE 174.
Term Typically Offered: Fall, Spring

Introduction to embedded systems with applied projects. The ISA, memory map, register architecture and configuration for one processor are studied in depth. Topics include: Overview of embedded systems; hardware, firmware, and software design; interrupt programming; application of contemporary interfacing protocols like USB and Bluetooth; use of an integrated development environment (IDE) for development; functional debugging; Real Time Operating Systems (RTOS) considerations and scheduling. One two hour lecture and one three hour lab per week.

CPE 190. Senior Design Project I. 2 Units
Prerequisite(s): CPE 142, CPE 166, CPE 186, CPE 187, EEE 108
Term Typically Offered: Fall, Spring

Centers on developing hardware and software project planning and engineering design skills. Emphasis is placed on design philosophies, problem definition, project planning and budgeting, written and oral communication skills, working with others in a team arrangement, development of specifications and effective utilization of available resources. Lecture one hour per week, laboratory three hours per week.

CPE 191. Senior Design Project II. 2 Units
Prerequisite(s): CPE 190, and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Continuation of CPE 190. Students are expected to continue the project started by design teams in CPE 190. The hardware will be completed, tested and redesigned if necessary. At the same time, software for the project will be finished and debugged. The final results of the team project will be presented to the CPE faculty and students at a prearranged seminar. Lecture one hour, laboratory three hours.

CPE 195. Fieldwork in Computer Engineering. 1 - 15 Units
Prerequisite(s): Petition approval by Program Coordinator.
Term Typically Offered: Fall, Spring

Directed observations and work experience in computer engineering with firms in the industry or public agencies. Supervision is provided by the instructional staff and the cooperating agencies. Faculty approval required.
Note: May be repeated for credit.

Credit/No Credit

CPE 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Credit/No Credit

CPE 195B. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Credit/No Credit

CPE 195C. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Credit/No Credit

CPE 199. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to those students who appear competent to carry on individual work. Admission to this course requires approval of the faculty member under whom the individual work is to be conducted, in addition to the approval of the advisor. May be repeated for credit.

CPE 201. Research Methodology. 1 Unit
Prerequisite(s): Fully classified graduate status.
Term Typically Offered: Fall, Spring

Research methodology, problem formulation and problem solving. Collective and individual study of selective issues and problems relating to fields of study in the Computer Engineering Graduate Program. Orientation to the requirements for Master's Thesis or Project in Computer Engineering.
Credit/No Credit

CPE 273. Hierarchical Digital Design Methodology. 3 Units
Prerequisite(s): CSC 205, EEE 285 or their equivalents.
Term Typically Offered: Fall, Spring

Advanced logic modeling, simulation, and synthesis techniques. Topics include modeling, simulation, and synthesis techniques, using Hardware Description Language (HDL's), Register Transfer Level (RTL) representation, high level functional partitioning, functional verification and testing, computer-aided logic synthesis, logical verification and testing, timing and delay analysis, automated place and route process', and design with Application Specific Integrated Circuits (ASICs) and programmable logic.

CPE 274. Advanced Timing Analysis. 3 Units
Prerequisite(s): EEE 273, CSC 273, CPE 273 or instructor permission.
Term Typically Offered: Fall, Spring

Timing analysis of Application Specific Integrated Circuit (ASIC) designs: Topics include ASIC design methodology, static timing analysis, timing design constraints, design reports, clock timing issues, timing exceptions, operating conditions, hierarchical analysis, analyzing designs with asynchronous logic, performance measurement and power issues. Cross-listed: EEE 274; only one may be counted for credit.

CPE 280. Advanced Computer Architecture. 3 Units
Prerequisite(s): CSC 205, fully classified graduate status.
Term Typically Offered: Fall, Spring

Introduction to parallel architecture covering computer classification schemes, fine and course grain parallelism, processor interconnections, and performance issues of multiprocessor systems. Includes parallel and pipelined instruction execution, structure of multiprocessor systems, memory hierarchy and coherency in shared memory systems, programming issues of multiprocessor systems, arithmetic pipeline design, and design for testability.

CPE 296T. Digital Speech Processing. 3 Units
Prerequisite(s): EEE 181 or instructor permission.
Term Typically Offered: Fall, Spring

The objective of this course is to cover the digital processing of speech signals. Topics include speech production and perception, speech processing in the time frequency domains. Short-time energy and Short-time Fourier analysis, homomorphic and linear predictive coding methods. Also covered are speech coding, basic introduction of text-to-speech synthesis and speech recognition.
Cross listed: EEE 296T.

CPE 299. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Open to qualified students who wish to pursue problems of their own choice. Projects must have approval and supervision of a faculty advisor.

CPE 500. Culminating Experience. 5 Units
Prerequisite(s): Advanced to candidacy and graduate coordinator's permission.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the master's degree.
Note: May be repeated for credit.

BS in Computer Engineering

Units required for Major: 97
Total units required for the BS: 124

Program Description

The Bachelor of Science degree in Computer Engineering is a four-year program that emphasizes engineering design of computer hardware and systems at all levels. Engineering design begins with logic design taught to entering students during their first semester. The thread of design continues through the study of architecture, CMOS and VLSI technology, ASIC design, operating systems, computer hardware design, and networking hardware. To complete their degree, students take a two-semester senior design and project course.

Program Requirements

Code	Title	Units
Required Lower Division Courses (23 Units)		
CPE/EEE 64	Introduction to Logic Design [1]	4
CSC 15	Programming Concepts and Methodology I	3
CSC 20	Programming Concepts and Methodology II	3
CSC 28	Discrete Structures for Computer Science	3
CSC 35	Introduction to Computer Architecture	3
CSC 60	Introduction to Systems Programming in UNIX	3
ENGR 1	Introduction to Engineering [1]	1
ENGR 17	Introductory Circuit Analysis	3
Required Mathematics Courses (11 Units)		
MATH 30	Calculus I [1]	4
MATH 31	Calculus II [1]	4
MATH 45	Differential Equations for Science and Engineering	3
Additional Required Courses (13 Units)		
ENVS 10	Introduction to Environmental Science [1]	3
ENGR 140	Engineering Economics [1]	2
PHYS 11A	General Physics: Mechanics [1]	4
PHYS 11C	General Physics: Electricity and Magnetism	4
Required Upper Division Courses (47 Units)		
CPE/CSC 138	Computer Networks and Internets	3
CPE/CSC 142	Advanced Computer Organization	3
CPE 151	Cmos And Vlsi	3
CPE/CSC 159	Operating System Pragmatics	3
CPE 166	Advanced Logic Design	4
CPE 185	Computer Interfacing	4
CPE 186	Computer Hardware System Design	3
CPE 190	Senior Design Project I [1]	2
CPE 191	Senior Design Project II [1]	2
CSC 130	Data Structures and Algorithm Analysis	3
CSC 139	Operating System Principles	3
EEE 108	Electronics I	3
EEE 108L	Electronics I Laboratory	1
EEE 117	Network Analysis	3
EEE 117L	Networks Analysis Laboratory	1
EEE 180	Signals & Systems	3
ENGR 120	Probability and Random Signals	3
Technical Electives (3 Units)		
Select one of the following:		3
CPE 144	Dsp Architecture Design	
CPE 153	Vlsi Design	
CSC 131	Computer Software Engineering	
CSC 133	Object-Oriented Computer Graphics Programming	
CSC 134	Database Management Systems	
CSC 151	Compiler Construction	
CSC 152	Cryptography	
CSC 153	Computer Forensics Principles and Practices	
CSC 154	Computer System Attacks and Countermeasures	

CSC 155	Advanced Computer Graphics	
CPE 187	Embedded Systems Design	
EEE 120	Electronic Instrumentation	
EEE 122	Applied Digital Signal Processing	
EEE 181	Introduction to Digital Signal Processing	
EEE 187	Robotics	
Total Units		97

[1] Course also satisfies General Education (GE)/Graduation Requirement.
Note:
- Students are expected to satisfy the general education requirements of the Accreditation Board for Engineering and Technology (ABET) as well as the University's General Education requirements. Students should consult the Program Coordinator for specific General Education requirements.
- A second-year foreign language course (2A or equivalent) may also satisfy 3 units of GE when the course is being taken to comply with the Sacramento State foreign language requirement. Students should consult with an advisor for exact GE eligibility of these courses.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]		0
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area Course C		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development		
Area E Course [2]		0
Total Units		30

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Computer Engineering are exempt from the Foreign Language Graduation Requirement.

MS in Computer Engineering

Total units required for MS: 30 minimum, (including 0-5 units of 500-level courses for Plan A, B, or C) and the remaining units from the list of required and elective courses

Program Description

The Master of Science degree in Computer Engineering is jointly supported by the Departments of Computer Science and Electrical and Electronic Engineering. The program is designed to provide opportunities for students with undergraduate degrees in Computer Engineering, Computer Science, Electrical Engineering, or a closely related field to pursue graduate studies in this interdisciplinary field. The program provides students with broad and advanced knowledge in areas such as advanced microprocessor architecture, parallel computer architecture, advanced microprocessor systems, distributed computing, data communication, computer networks, operating systems, and concurrent programming. The program is sufficiently flexible to allow students to conduct independent research and broaden their professional scope. Each student plans a program of study in consultation with a graduate

advisor and/or his/her thesis or project advisor and works closely with these advisors.

Computer Engineering is a part of the larger Information Technology (IT) discipline. Highly skilled computer engineers who have advanced knowledge of both hardware and software and who can design, test, and implement complex digital systems are a part of the IT workforce. Networks such as the Internet, Intranets, communication systems, banking computer systems, public utility systems, and transportation systems are just a few examples of areas where high-tech solutions and skilled workers are needed. The continuing dramatic progress in hardware and the sophistication of computing devices and systems require continually increasing technical skills in hardware and software.

Note: All graduate students are required to take CPE 201 in their first semester of study. Students may take no more than 6 units of CPE 299 to fulfill the unit requirements. Only those courses completed within seven years prior to date of graduation will satisfy course requirements.

Admission Requirements

Admission to the graduate program in Computer Engineering requires all of the following:

- a BS degree in Computer Engineering (CPE), Computer Science (CSC), Electrical and Electronic Engineering (EEE), or a closely related field;
- at least a 3.0 GPA in the last 60 units of the BS degree;
- Graduate Record Examination (GRE) general test scores and;
- background as specified in Required Basic Knowledge to enter the program.

Students with deficiencies in the admission requirements are advised to remove any such deficiencies before applying. However, under special circumstances, a student who does not satisfy the admission requirements may be admitted as a conditionally classified graduate student. Conditional admission may be granted to those students who are likely to complete all the admission requirements. Deficiencies will be specified in the acceptance letter to the student and must be removed by the student before the student can become a fully classified graduate student.

A student registered as an unclassified or conditionally classified graduate student cannot use graduate courses to improve his/her grade point average for admittance to the program. Only undergraduate courses required in the degree program in CPE, CSC, or EEE may be taken or retaken to improve the GPA for admittance to the graduate program.

Required Basic Knowledge

A student must have completed the following list of Required Basic Knowledge before becoming a fully classified graduate student in Computer Engineering. Courses listed in parentheses are the equivalent Sacramento State courses.

Minimum required GPA in the following subject areas: 3.0

Electrical Fundamentals
Analog/Digital Electronics
CMOS and VLSI
Digital Logic Design and Introduction to Computer Organization
Assembly Language
Computer Interfacing
Object Oriented Programming
Algorithms and Data Structure
Systems Programming
Introduction to Operating Systems
Computer Networks and Internets
Differential Equations for Science and Engineering
Statistics and Probability
Applied Linear Algebra
Numerical Analysis

Graduate Admission Procedures

Applications will be accepted as long as there is space available. All prospective graduate students, including Sacramento State graduates, must file all of the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for graduate admission;
- two sets of official transcripts from colleges and universities attended, *other than Sacramento State*; and
- Graduate Record Examination (GRE) scores;

For more admissions information and application deadlines, please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*)*.

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MS: 30

Minimum cumulative GPA: 3.0. Up to three courses in the program of study may have a grade of 'C+' or 'B-'. All other courses in the program of study must have a grade of 'B' or higher.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in the admission requirements;
- completed at least 12 units of graduate level (200 series) Computer Engineering courses with a minimum 3.0 GPA; and
- passed the Writing Placement for Graduate Students (WPG) or secured approval for a WPG waiver.

Students must have been advanced to candidacy before they can register for Plan A, B or C. The student should fill out the form after planning a degree program in consultation with a Computer Engineering graduate advisor. The completed form must be signed by the CPE Graduate Coordinator and is then returned to the Office of Graduate Studies for approval.

Note: It should be recognized that the industry puts a high value on project and thesis problem-solving experience, and the demonstration of technical writing skills that these options require. Graduating under the Plan C option will not provide that experience. Students taking this option should consider, with their elective area advisors, other ways of gaining that valuable experience, such as through a CPE 299 Special Problems course.

Program Requirements

Code	Title	Units
A. Required Core Courses		**11**
CPE 201	Research Methodology [1]	
CSC/EEE 273	Hierarchical Digital Design Methodology	
CSC 205	Computer Systems Structure [2]	
EEE 270	Advanced Topics in Logic Design [2]	
B. Required Breadth Courses [2]		**6 - 12**
Students must cover at least two from the following five areas with equal number from CSC and EEE courses:		
Algorithms and Applications		
CSC 206	Algorithms And Paradigms	
EEE 221	Machine Vision	
EEE 225	Advanced Robot Control	
EEE 244	Electrical Engineering Computational Methods and Applications	
EEE 246	Advanced Digital Control	
Computer Architecture and Digital Design		
CSC 242	Computer-Aided Systems Design and Verification	
EEE 272	High Speed Digital System Design	
EEE 274	Advanced Timing Analysis	
EEE/CSC 280	Advanced Computer Architecture	
EEE 285	Micro-Computer System Design I	
EEE 286	Microcomputer System Design II	
Microelectric Design		
EEE 230	Analog and Mixed Signal Integrated Circuit Design	
EEE 231	Advanced Analog and Mixed Signal Integrated Circuit Design	
EEE 232	Key Mixed-Signal Integrated Circuit Building Blocks	
EEE 234	Digital Integrated Circuit Design [2]	
EEE 235	Mixed-Signal IC Design Laboratory	
EEE 236	Advanced Semiconductor Devices	
EEE 238	Advanced VLSI Design-For-Test I	
EEE 239	Advanced VLSI Design-For-Test II	
Networks and Security		
CSC 250	Computer Security	
CSC 253	Computer Forensics	
CSC 254	Network Security	
CSC 255	Computer Networks	
Systems Software		
CSC 151	Compiler Construction	
CPE/CSC 159	Operating System Pragmatics [3,4]	
CSC 239	Advanced Operating Systems Principles and Design	
C. CSC Elective		**3**
Courses from Area B (Required Breadth Courses) or any 200-level CSC courses subject to meeting the required prerequisites.		
D. EEE Elective		**3**
Courses from Area B (Required Breadth Courses) or any 200-level EEE courses subject to meeting the required prerequisites.		
E. Culminating Requirement		**0 - 5**
CPE 500	Culminating Experience	
Plan A: Thesis (5 units) [5,6]		
Minimum 25 units of course work including 11 units from Area A (Required Core Courses), a minimum of 6 units from Area B (Required Breadth Courses), and a minimum of 3 units each from Area C (CSC Elective) and Area D (EEE Elective).		
Plan B: Project (2 units) [5,6]		
Minimum 28 units of course work including 11 units from Area A (Required Core Courses), a minimum of 12 units from Area B (Required Breadth Courses), and a minimum of 5 units from the following options:		
a) 3 units from Area C (CSC Elective) and 2 units 299 where minimum 1 unit must be CPE or EEE;		
b) 3 units from Area D (EEE Elective) and 2 units 299 where minimum 1 units must be CPE or CSC; or		
c) 3 units from Area C (CSC Elective) and 3 units from Area D (EEE Elective).		
Plan C: Comprehensive Exam (0 units) [5,6]		
Minimum 30 units of course work including 11 units from Area A (Required Core Courses), a minimum of 12 units from Area B (Required Breadth Courses), and a minimum of 3 units each from Area C (CSC Elective) and Area D (EEE Elective).		
Total Units		29-34

1. All graduate students must concurrently take CPE 201 in the semester they take their first graduate course.
2. Students whose undergraduate degree preparation has covered a significant amount of the material in the course may be allowed to waive the course. The course waiver form must be approved by the Computer Engineering Coordinator. In this case, for each CSC course waived students must take an additional CSC course, and for each EEE course waived students must take an additional EEE course from Required Breadth Courses or Elective Courses to satisfy the program unit requirement.
3. Students whose undergraduate degree preparation has not covered a significant amount of the material in CSC 159/CPE 159 must take this course as one of the CSC Breadth Requirement courses.
4. No more than 6 units of under 200-level courses.
5. Additional units from Area B (Required Breadth Courses), Area C (CSC Elective), or Area D (EEE Elective), or 299, to fulfill the minimum course work units.
6. The Masters Degree requires 18 units of Graduate (200-level) seminar courses. No more than six units of 295, 296, or 299 may be counted towards a degree.

Computer Science

College of Engineering and Computer Science

Program Description

The Bachelor of Science degree in Computer Science is accredited by the Computing Accreditation Commission (CAC) of ABET, Inc. (http://www.abet.org/), providing majors with a sound educational base in Computer Science. The Minor in Computer Science and the Minor in

Information Security and Computer Forensics are available for students majoring in disciplines other than Computer Engineering.

The Department offers an MS in Computer Science and an MS in Software Engineering.

The Department also offers programs in conjunction with other units: with the Electrical and Electronic Engineering Department, a BS and an MS in Computer Engineering (refer to the Computer Engineering section of this catalog).

Degree Programs

BS in Computer Science (p. 582)

Certificate in Cyber Defense and Operations (p. 585)

Certificate in Game Engineering (p. 586)

Certificate in Information Assurance and Security (p. 586)

Certificate in Software Engineering (p. 587)

Certificate in Systems Software (p. 588)

Minor in Computer Science (p. 588)

Minor in Information Security and Computer Forensics (p. 588)

MS in Computer Science (p. 589)

MS in Software Engineering (p. 591)

Certificate in Advanced Studies (p. 584)

Certificate in Computer Architecture (p. 584)

Certificate in Computer Engineering (p. 584)

Certificate in Computer Networks and Communications (p. 585)

Certificate in Data Management Systems (p. 585)

Certificate in Data Mining (p. 585)

Certificate in Information Assurance and Security - Graduate (p. 587)

Certificate in Intelligent Systems (p. 587)

Certificate in Software Engineering - Graduate (p. 587)

Certificate in Systems Software - Graduate (p. 588)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Computer Science is also individually accredited by Computing Accreditation Commission of ABET, Inc.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

- The research interests of the department faculty span a broad spectrum of Computer Science including active databases, algorithm analysis, autonomic computing, bioinformatics, compilers, computer architecture, computer forensics, computer graphics and computer game design, computer networks and communications, computing theory, cryptography, data models and database management systems, data warehousing and data mining, distributed systems and real-time systems, formal methods, human-computer interfaces, information assurance and security, intelligent and knowledge-based systems, Internet and Web technologies, machine learning, mobile and cloud computing, network security, operating systems, performance modeling and evaluation, programming languages and methodologies, software architecture, software project management, software requirements engineering, software system engineering, verification and validation, VLSI design.
- A large heterogeneous network of Linux 64-bit, Sun RISC, and Hewlett-Packard RISC servers combined with Linux, SunOS, HPUX, Windows, and MacOS workstations supports the instructional programs. Linux and Windows workstation laboratories support both lower and upper-division instruction. Specialized laboratories support systems, communications and networking, computer security, and computer architecture instruction. A graduate laboratory is designed to provide graduate students with access to a variety of advanced workstations. All students have access to the Internet and every conceivable Web resource.
- Majors are urged to join the student chapters of the Association for Computing Machinery or the IEEE Computer Society. Students with high scholastic achievement may be invited to join Upsilon Pi Epsilon, the national honor society for Computer Science.
- The University's proximity to many California State agencies and major computer corporations provides numerous opportunities for part-time student employment.

Bachelor of Science Educational Objectives

Three to five years after graduation, a graduate of the B.S. in computer science should have:

1. Made contributions to the development, maintenance, and support of real world computing systems.
2. Taken initiative and assumed responsibilities as an effective member of project teams.
3. Worked independently and functioned effectively in an environment with incomplete information.
4. Progressed in the computing field, engaged in professional development, and/or pursued an advanced degree.
5. Produced quality technical and non-technical documents and presentations for a variety of audiences.
6. Adhered to the ethical standards of the profession and understood the implications of his/her professional activities.

Career Possibilities

Computer Scientist · Computer Engineer · Software Engineer · Computing Science Educator · Information Technology Specialist · Computer Systems Analyst · Scientific Application Programmer · Computer Operations Manager · Computer Services Coordinator · Database Administrator · Computer Game Developer · Data Communications Manager · Data Processing Manager · Data Processing Application Programmer · Network Administrator · Programmer Analyst · Software Requirements Engineer · Software Architect · Software Quality Assurance Specialist · Software Development Project Manager · Systems Manager · Systems Programmer · Computer Graphics Specialist · Knowledge Engineer · Systems Engineer · Cyber Security Specialist · Information Assurance Specialist · Information Security Officer · Data Mining Analyst · Web/eCommerce Developer · IT Business Analyst · IT Infrastructure Specialist · Technical Control Specialist · Technical Representative

Contact Information

Cui Zhang, Department Chair
Veronica Pruitt, Administrative Support Coordinator
Riverside Hall 3018
(916) 278-6834
Department of Computer Science Website (http://www.ecs.csus.edu/csc/)

Faculty

ARAD, BEHNAM S.

BAYNES, ANNA

CHANG, WEIDE 'WILLIE'

CHEN, HAIQUAN 'VICTOR'

CHENG, YUAN

DAI, JUN

FAROUGHI, NIKROUZ

GHANSAH, ISAAC

GORDON, V. SCOTT

JIN, YING

KROVETZ, TED D.

LU, MEILIU

MUYAN-OZCELIK, PINAR

OUYANG, JINGSONG

SALEM, AHMED M.

SHOBAKI, GHASSAN

SUN, XIAOYAN

WANG, CHUNG-E

WANG, XUYU

YANG, JINGWEI

ZHANG, CUI

CSC 1. Introduction to Computer Science. 3 Units
Prerequisite(s): Intermediate algebra.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Fundamental concepts of computers, computation and programming; history and principles of computing; problem solving; input, output; data representation, storage, and file organization; computer hardware, networking and data communication; social, economic and ethical implications; computer security and privacy. Students will solve problems using a programming language. Lecture, two hours; technical activity and laboratory, two hours.

CSC 1A. Introduction to Computer Science for Advanced Students. 3 Units
Term Typically Offered: Fall, Spring

Same material as covered in CSC 1 but intended for students who already have significant knowledge of the fundamental concepts of computers and/or computer programming. Students must attend the orientation session during the first class meeting. Two placement tests, one on programming and one on concepts, will be scheduled and used to determine student's prior preparation.
Note: May be taken by those wishing to obtain credit by examination. Please refer to examination credit guidelines in the University catalog. Not open to students who have received credit for CSC 1 or MIS 5.

Credit/No Credit

CSC 5. Personal Computing. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the role and use of personal computers, emphasizing the use and relevancy of common software for word processing, database, spreadsheet analysis, graphics, and communications. Examination of the personal computing milieu and the applications environment. Lecture two hours, technical activity and laboratory two hours.

CSC 8. Introduction to Internet Technologies. 3 Units
Prerequisite(s): Basic computer literacy recommended.
Term Typically Offered: Summer only

Internet applications such as email, instant messaging, file transfer, secure communications, the web, and related tools and protocols. Basics of the web-publishing process and methods used to locate authoritative information on the internet. Webpage design, internet security and emerging technologies on the internet.

CSC 8S. Self-Paced Introduction to Internet Technologies. 3 Units
Prerequisite(s): Basic computer literacy recommended.
Term Typically Offered: Fall, Spring

Covers the same material as CSC 8, Introduction to Internet Technologies. Provided by electronic means in addition to meetings for orientation, laboratory demonstrations, and tests. Internet applications such as Email, instant messaging, file transfer, secure communications, the Web, and related tools and protocols. Basics of the Web-publishing process and methods used to locate authoritative information on the Internet. Webpage design, Internet security and emerging/declining technologies on the Internet.
Credit/No Credit

CSC 10. Introduction to Programming Logic. 3 Units
Prerequisite(s): Math 11 or equivalent
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Introduction to computer science with an emphasis on programming concepts and methodology. Intended to assist students with little or no programming experience to understand the basic principles of programming logic. Topics include computer hardware and software, problem solving and algorithm development, flow of control, modular design using techniques that can be applied to common programming languages. Lecture two hours, technical activity and laboratory two hours.

CSC 10A. Accelerated Introduction to Programming Logic. 3 Units
Term Typically Offered: Fall, Spring

Introduction to computer science with an emphasis on programming concepts, logic, and methodology: computer hardware and software, problem solving and algorithm development, flow of control, and modular design. Accelerated and more in-depth study of programming concepts than CSC 10. Intended for computer science and computer engineering majors who have little or no programming experience. Lecture two house, technical activity and laboratory, two hours. Not open to students who have received credit for CSC 10. Preqrequisite: Math 11

CSC 15. Programming Concepts and Methodology I. 3 Units
Prerequisite(s): CSC 10, or programming experience in a high-level programming language.
Term Typically Offered: Fall, Spring, Summer

Programming concepts using an object-oriented programming language. Introduction to methodologies for program design, development, testing, and documentation. Topics include program design, algorithm design, number systems, classes and objects, methods (functions), control structures, arrays, and interactive input/output. Lecture two hours, technical activity and laboratory two hours.

CSC 15W. Programming Methodology I Workshop. 1 Unit
Corequisite(s): CSC 15.
Term Typically Offered: Fall, Spring, Summer

Designed to assist students in developing a more thorough understanding of programming methodology and problem solving techniques. Activity two hours.
Credit/No Credit

CSC 20. Programming Concepts and Methodology II. 3 Units
Prerequisite(s): CSC 15.
Term Typically Offered: Fall, Spring

Application of object-oriented techniques for systematic problem analysis and specification, design, coding, testing, and documentation. Semester-long project approach emphasizing larger programs. Managing program complexity using abstraction. Introduction to algorithm analysis and Big-O notation. Advanced language features. Basic sorting and searching algorithms. Recursion. Lecture two hours, technical activity and laboratory two hours.

CSC 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Development of information competence and computer literacy. Students interact with fellow students and the seminar leader to build a community of academic and personal support.

CSC 22. Visual Programming in BASIC. 3 Units
Prerequisite(s): Intermediate Algebra.
Term Typically Offered: Fall, Spring

Computer Programming using Visual Basic. Topics include the Visual Basic Integrated Development Environment, visual user interface development, concepts of object-oriented programming, variables, control structures, arrays, functions, subroutines, strings, files, and database access. Applications will be created in areas such as business, games, and multimedia. Lecture two hours, technical activity and laboratory two hours.

CSC 25. Introduction to C Programming. 3 Units
Term Typically Offered: Fall only

Topics include: types, operators, control structures, input/output, arithmetic operations, the C library and preprocessor, functions and parameters, arrays, strings, pointers, and structures. Program design and style will be emphasized. Students will use a compiler.
Note: Students with significant programming experience should take CSC 60 rather than CSC 25. Lecture two hours, technical activity and laboratory two hours.

CSC 28. Discrete Structures for Computer Science. 3 Units
Prerequisite(s): MATH 26A or MATH 29; and CSC 20; CSC 20 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to the essential discrete structures used in Computer Science, with emphasis on their applications. Topics include: counting methods, elementary formal logic and set theory, recursive programming, digital logic and combinational circuits, real number representation, regular expressions, finite automata.

CSC 35. Introduction to Computer Architecture. 3 Units
Prerequisite(s): CSC 15.
Term Typically Offered: Fall, Spring

Internal representation of numeric and non-numeric data, assembly level machine architecture, addressing modes, subroutine linkage, polled input/output, interrupts, high-level language interfacing, macros and pseudo operations. Lecture two hours, technical activity and laboratory two hours.

CSC 60. Introduction to Systems Programming in UNIX. 3 Units
Prerequisite(s): CSC 20, CSC 35.
Term Typically Offered: Fall, Spring

Features of the C language commonly used in systems programming, application to systems programming in a UNIX environment. Topics include C preprocessor macros, I/O, bit-manipulation facilities, timesharing system concepts, file permissions, shell script programming, make files and source code control, basic system calls like fork and exec, pointers and dynamic memory allocation, libraries and relocation and linking concepts including assembler handling of symbol tables. Prior knowledge of a C like programming language is presumed.

CSC 80. Web Development with HTML/XHTML and Tools. 3 Units
Prerequisite(s): CSC 8 or equivalent computer and Internet experience.
Term Typically Offered: Fall, Spring

Hands-on course covering the processes and guidelines for creating and customizing interactive webpages. Emphasis on use of HTML/XHTML, CSS, and tools to create webpages. HTML/XHTML syntax to create, format, and link documents. Use of tables, graphics, styles, forms, multimedia, and other features in webpages. Effective webpage design and website organization. Lecture two hours and technical activity and laboratory two hours.

CSC 114. Digital Evidence and Computer Crime. 3 Units
Prerequisite(s): CSC 1 and CSC 8 or CSC 8S or CSC 80; or instructor permission.
Term Typically Offered: Fall, Spring

Topics include technology and law, computer basics for digital investigations, network basics for digital investigations, investigation of computer crime, and the handling of digital evidence.

CSC 115. Internet Security. 3 Units
Prerequisite(s): CSC 1 and CSC 8 or CSC 8S or CSC 80; or instructor permission.
Term Typically Offered: Summer only

Internet security problems and discussion of potential solutions: network vulnerabilities and attacks, secure communication and use of cryptography, Internet security protocols and tools to defend against network attacks, network intrusion detection, and wireless network security. Survey and use of software tools for network security.

CSC 116. Cyber Forensics. 3 Units
Prerequisite(s): CSC 1 and CSC 8 or CSC 8S or CSC 80; or instructor permission.
Term Typically Offered: Summer only

Fundamentals of computer forensics and cyber-crime scene analysis including laws, regulations, and international standards; formal methodology for conducting security incident investigations; categories of electronic evidence. Projects involving digital forensic tools.

CSC 120. Web Server Administration. 3 Units
Prerequisite(s): CSC 80.
Term Typically Offered: Fall, Spring

Managing and maintaining Web servers. Administering open source and commercial Web servers, Web hosting alternatives, professional standards and practices of website hosting, Web server installation, configuration, management, and security. Selecting and using technologies to support professional quality websites. Lecture two hours; technical activity and laboratory two hours.

CSC 121. Client-Side Web Programming. 3 Units
Prerequisite(s): CSC 22, CSC 80 or equivalents; OR PCSC/CSC Major, CSC 60, CSC 130.
Term Typically Offered: Fall, Spring

Client-side Web programming using JavaScript, DHTML, and client-side Web technologies. Event-driven programming, dynamic data types, control structures, and introduction to object-oriented programming and program design. Use of cookies and built-in objects. Validation and processing of forms. Basic features of the Document Object Model.

CSC 122. Web Database Applications. 3 Units
Prerequisite(s): CSC 10 or CSC 22; and CSC 80 or equivalent.
Term Typically Offered: Fall, Spring

Fundamentals of building effective database-driven web applications. Particular emphasis on database access via web interfaces. Introduction to database management systems, their structure and usage, SQL, integrating web applications with databases, design and implementation of dynamic web database applications.

CSC 123. Web Application Development. 3 Units
Prerequisite(s): CSC 22, CSC 121, CSC 122, or equivalent experience; OR PCSC/CSC Major, CSC 60, CSC 134.
Term Typically Offered: Fall, Spring

Developing multi-tiered enterprise-level Web applications. Standards of Web services and other current Web technologies, including XML, AJAX, and server-side programming such as Java EE, .NET, or PHP. Development of Web applications such as those used for e-commerce, e-business, and content management. Format consists of two 1.5 hour lecture/lab sessions per week.

CSC 126. 3D Computer Modeling. 3 Units
Prerequisite(s): CSC 10 or ART 97 or equivalent.
Term Typically Offered: Fall only

Techniques and processes to create 3D computer models and environments. Exercises, assignments and projects designed to build skill levels with 3D computer modeling tools. Demonstrations and workshops in the use of 3D computer modeling software. Critiques, discussion and presentations to develop students' conceptual grasp of 3D computer modeling and virtual reality environments. Example applications in art/new media and computer gaming.
Note: May be taken twice for credit. Cross-listed as ART 142.

CSC 127. 3D Computer Animation. 3 Units
Prerequisite(s): ART 142 or CSC 126.
Term Typically Offered: Spring only

Creative skills and techniques for animating 3D computer-modeled objects/environments. Topics include animation techniques; keyframing and interpolation; deformation and morphing; path control; skeletal animation; model rigging and skinning; forward and inverse kinematics, constraints and IK solvers; particle systems; fluid, cloth, hair, and fur simulation; shape keys; and soft body animation. Emphasis on both skill development and creative application of modeling and animation techniques. Includes demos, in class and homework excercises, and self directed projects.
Cross-listed: ART 143.

CSC 130. Data Structures and Algorithm Analysis. 3 Units
Prerequisite(s): CSC 20, CSC 28; CSC 28 may be taken concurrently.
Term Typically Offered: Fall, Spring

Specification, implementation, and manipulation of complex data structures: linear/lists, stacks, queues, trees, sets, and graphs. Design and analysis of algorithms. Recursion and stack-based memory management. Advanced searching and sorting. NP-completeness.

CSC 131. Computer Software Engineering. 3 Units
Prerequisite(s): CSC 130; may be taken concurrently.
Term Typically Offered: Fall, Spring

Principles of Software Engineering covering the software development life cycle, including software requirements engineering (elicitation, modeling, analysis and specification), software design, software implementation and testing. Main topics include various software development process models, method and techniques for specifying requirements, architectural and detailed design specification, prototyping, top-down and bottom-up software implementation and testing. Topics also include project management, project documentation and the development of communication skills through written documentation and oral presentation.

CSC 132. Computing Theory. 3 Units
Prerequisite(s): CSC 28, CSC 130; CSC 130 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to computing theory with examples and applications. Automata and formal languages; language recognition and generation; language hierarchy; deterministic and non-deterministic automata; regular expressions; pushdown automata and context-free grammars; properties of regular and context-free languages; Turing machines; computable and noncomputable functions; decidability.

CSC 133. Object-Oriented Computer Graphics Programming. 3 Units
Prerequisite(s): CSC 130, CSC 131.
Term Typically Offered: Fall, Spring

Introduction to computer graphics and advanced topics in object-oriented (OO) programming. The OO paradigm is used throughout, utilizing computer graphics as the vehicle for solidifying basic OO concepts, studying the implementation of event-driven systems, and for developing a thorough understanding of advanced OO concepts such as inheritance and polymorphism. Topics include fundamental concepts of object-oriented programming, software design patterns, graphic devices, line and surface drawing, simple 2D and 3D representation, and use of User Interface components.

CSC 134. Database Management Systems. 3 Units
Prerequisite(s): CSC 130.
Term Typically Offered: Fall, Spring

Entity-Relationship (ER) model; relational model; relational database design by ER-to-relational mapping; design of applications using database technology; SQL; schema definition, constraints, and queries; relational algebra; data normalization; access methods such as indexing and hash structures; introduction to transaction processing.

CSC 135. Computing Theory and Programming Languages. 3 Units
Prerequisite(s): CSC 28, CSC 35, CSC 130.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Introduction to computing theory with examples and applications. Automata and formal languages; regular expressions; deterministic and non-deterministic finite automata; pumping lemma for regular languages; push-down automata and context-free grammars; language recognition; parsing techniques including recursive descent; Turing machines; computable and non-computable functions. Design and implementation of selected features of programming languages. Functional and logic programming paradigms.

CSC 136. Programming Languages. 3 Units
Prerequisite(s): CSC 35, CSC 132.
Term Typically Offered: Fall, Spring

Evolution and characteristics of programming languages. Scripting, procedural, object-oriented, functional and logic paradigms. Language specification; interpreters and compilers; virtual machines; parsing techniques. Design and implementation of selected features of programming languages. Programming languages used in the development of intelligent systems, with introduction to Artificial Intelligence. Trends in programming languages.

CSC 137. Computer Organization. 3 Units
Prerequisite(s): CSC 28, CSC 35, CSC 130
Term Typically Offered: Fall, Spring

Introduction to computer organization and architecture. Combinational devices, sequential and synchronized circuits, memory organization, CPU architecture and organization, bus structures, input/output, interrupts, DMA, memory hierarchy, introduction to instruction level parallelism, multithreading, and multiprocessing. Exposure to hardware security issues.

CSC 138. Computer Networks and Internets. 3 Units
Prerequisite(s): CSC 35, CSC 60, CSC 130.
Term Typically Offered: Fall, Spring

Overview of the fundamentals of computer networks and connections between networks, from the physical layer up through peer-to-peer communications at the application level. Lower layer characteristics including serial vs. parallel, capacity issues, high-speed connections, LAN framing and error handling. LAN vs. WAN characteristics, network architecture and the ISO network model. Internetworking components including LANs, repeaters, routers, bridges, and gateways. Internet addresses, TCP/IP, and the Domain Name System. Common Internet client/server application protocols including SMTP and FTP. Client/Server programming involving sockets. World Wide Web characteristics including CGI and HTTP protocol, Web pages, Web browsers, Web servers, and Applets. Introduction to advanced Web issues such as Web security, search engine operations, and Web database operations.
Cross Listed: CPE 138; only one may be counted for credit.

CSC 139. Operating System Principles. 3 Units
Prerequisite(s): CSC 60 and CSC 130, and either CSC 137 or CPE 185
Term Typically Offered: Fall, Spring

Concepts, principles, fundamental issues, organization and structure of contemporary operating systems. Topics include processes, threads, concurrency, scheduling, inter- process communication and synchronization, deadlock, real and virtual memory management, device management, file systems, network and distributed operating systems, security, and protection.

CSC 140. Advanced Algorithm Design and Analysis. 3 Units
Prerequisite(s): CSC 130.
Term Typically Offered: Spring only

Algorithm design using dynamic programming, randomization and greedy methods. Analysis using recurrence relations and amortization. String and network-flow algorithms. NP-completeness, reductions, and approximation algorithms. Review of divide-and-conquer design and asymptotic notation.

CSC 142. Advanced Computer Organization. 3 Units
Prerequisite(s): CSC 137 or CPE 166 and CPE 185.
Term Typically Offered: Fall, Spring

Design and performance issues of computers. Instruction set architecture, computer arithmetic, processor design, survey of contemporary architectures, interfacing I/O devices, hierarchal memory design and analysis, parallelism and multiprocessing, distributed systems, techniques for enhancing performance, and an introduction to EDA tools for design and verification of computers. Design and simulation of a microcomputer in an HDL.
Note: Open to students with full CSC or CPE major standing only. Cross Listed: CPE 142; only one may be counted for credit.

CSC 148. Modeling and Experimental Design. 3 Units
Prerequisite(s): MATH 26B or MATH 31, STAT 50 or ENGR 115, and proficiency in a programming language.
Term Typically Offered: Not offered

Modeling and simulation techniques; Monte Carlo methods; queuing theory; model formulation, data collection and analysis, experimental design; model verification and validation.

CSC 151. Compiler Construction. 3 Units
Prerequisite(s): CSC 135
Term Typically Offered: Fall only

Practical approach to compiler design and implementation. Organization of a compiler, algorithms for lexical, syntactic and semantic analysis, recursive descent and/or LALR parsing, organization of symbol tables, error detection and recovery, object code generation. Modular design will be emphasized.

CSC 152. Cryptography. 3 Units
Prerequisite(s): CSC 60, CSC 130; and STAT 50 or ENGR 115
Term Typically Offered: Fall only

Introduction to design and analysis of cryptographic systems. Symmetric cryptography: Block ciphers and secure hash functions. Asymmetric cryptography: Key exchange and public-key systems. Authentication and encryption in an adversarial model. Simple cryptanalysis. Protocol design and analysis.

CSC 153. Computer Forensics Principles and Practices. 3 Units
Prerequisite(s): CSC 138 or CPE 138.
Term Typically Offered: Spring only

Fundamentals of computer forensics, cyber-crime scene analysis and electronic discovery. Technical and formal methodology for conducting security incident investigations; file systems and storage analysis, data hiding techniques, network forensics; projects involving using, understanding, and designing digital forensics tools; anti-forensics; legal issues and standards.

CSC 154. Computer System Attacks and Countermeasures. 3 Units
Prerequisite(s): CSC 138 or CPE 138.
Term Typically Offered: Fall only

Introduction to network and computer security with a focus on how intruders gain access to systems, how they escalate privileges, and what steps can be taken to secure a system against such attacks. Topics include: Perimeter defenses, intrusion detection systems, social engineering, distributed denial of service attacks, buffer overflows, race conditions, trojans, and viruses.

CSC 155. Advanced Computer Graphics. 3 Units
Prerequisite(s): CSC 133.
Term Typically Offered: Fall only

Modeling, viewing, and rendering techniques in 3D computer graphics systems. Topics include modeling systems and data structures; polygonal and parametric surface representation; transformations, windowing, clipping and projections in 3D; hidden surface removal algorithms; techniques for realism such as shading, shadows, highlights, and texture; fractals and procedural models; introduction to animation; hardware support for computer graphics; and the application of graphics principles to virtual reality systems and 3D games.

CSC 159. Operating System Pragmatics. 3 Units
Prerequisite(s): CSC 139.
Term Typically Offered: Fall, Spring

Application of operating system principles to the design and implementation of a multitasking operating system. Students will write an operating system for a computer platform. Topics include: scheduling of processes, control and allocation of computer resources, and user interfacing.
Cross Listed: CPE 159; only one may be counted for credit.

CSC 163. Parallel Programming with GPUs. 3 Units
Prerequisite(s): CSC 60, CSC 130, CSC 137; and either MATH 30 or MATH 26A.
Term Typically Offered: Fall, Spring

Parallel programming with emphasis on developing GPU computing applications. Topics include the GPU architecture and programming model, mapping computations to parallel hardware, parallel computation patterns, parallel programming optimization techniques, and application case studies.

CSC 165. Computer Game Architecture and Implementation. 3 Units
Prerequisite(s): CSC 130; CSC 133; MATH 26A or MATH 30; PHYS 5A or PHYS 11A.
Term Typically Offered: Spring only

Architecture and implementation of computer game systems. Topics include game engine architecture; screen management and rendering control; geometric models; algorithms and data structures for spatial partitioning, occlusion, and collision detection; real-time interactive 3D graphics and animation techniques; behavioral control for autonomous characters; simulation of physical phenomena; sound and music in games; optimization techniques; multi-player games and networking; game development tools and environments. Substantial programming and project work.

CSC 170. Software Requirements and Specification. 3 Units
Prerequisite(s): CSC 131.
Term Typically Offered: Spring only – odd years

Analysis and specification of functional and non-functional requirements for real-time and non-real-time software systems in the context of a software development lifecycle. Determining customer and user software requirements and ensuring that specifications are correct, complete, and testable. Includes modeling techniques, methods for representing real-time requirements, and the use of Computer-Aided Software Engineering (CASE) tools to illustrate analysis concepts.

CSC 171. Software Engineering Project Management. 3 Units
Prerequisite(s): CSC 131.
Term Typically Offered: Spring only – even years

Fundamental issues in the management and economics of a software engineering project in the context of the software development lifecycle. Topics include: techniques for project planning (budgeting and scheduling), controlling (including quality assurance and configuration management), organizing, staffing, and directing a software project (leadership and motivation); and contemporary issues in management.

CSC 174. Advanced Database Management Systems. 3 Units
Prerequisite(s): CSC 131, CSC 134.
Term Typically Offered: Fall only

Enhanced Entity-Relationship (EER) modeling; relational database design based on EER; SQL views; integrity constraints and triggers; stored procedures and functions; database programming techniques; query processing and optimization; transactions concurrency and recovery techniques; relational decomposition and normalization algorithms; database schema and data security.

CSC 176. Database Architecture and Optimization. 3 Units
Prerequisite(s): CSC 174.
Term Typically Offered: Spring only

Advanced object-relational systems, advanced catalog systems, security mechanisms, distributed database processing, advanced schema design-partitioning, introduction to data warehousing and data mining, materialized views, Internet technologies, parallel query processing, system utilities, database tuning, DBA tools and techniques.

CSC 177. Data Analytics and Mining. 3 Units
Prerequisite(s): CSC 134 and STAT 50 or ENGR 115.
Term Typically Offered: Spring only

Theory and implementation of techniques for data analytics and mining with emphasis on big data. Topics include data cleaning, exploratory data analysis, data visualization, feature engineering, classification, clustering, association rule mining, predictive model evaluation, parameter tuning, natural language processing, and selected advanced data mining topics. Design and implementation of systems using contemporary data analysis and mining programming libraries for automatic discovery of patterns and knowledge.

CSC 179. Software Testing and Quality Assurance. 3 Units
Prerequisite(s): CSC 131.
Term Typically Offered: Spring only – even years

Testing, verification, validation, and control of real-time and non-real-time software systems in the context of a software development lifecycle. Topics include: unit, integration and system testing; verification and validation (V&V), quality assurance, metrics, and configuration management.

CSC 180. Intelligent Systems. 3 Units
Prerequisite(s): MATH 26B or MATH 31; STAT 50 or ENGR 115; CSC 130 and CSC 135.
Term Typically Offered: Spring only

Theory and implementation of a variety of techniques used to simulate intelligent behavior. Expert systems, fuzzy logic, neural networks, evolutionary computation, and two-player game-tree search will be covered in depth. Knowledge representation, pattern recognition, hybrid approaches, and handling uncertainty will also be discussed.

CSC 190. Senior Project: Part I. 2 Units
Prerequisite(s): Senior status, completion of CSC 130, CSC 131 and four additional 3-unit CSC upper-division courses that fulfill the major requirements (excluding CSC 192-195, 198, 199), and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

First of a two-course sequence in which student teams undertake a project to develop and deliver a software product. Approved project sponsors must be from industry, government, a non-profit organization, or other area. Teams apply software engineering principles in the preparation of a software proposal, a project management plan and a software requirements specification. All technical work is published using guidelines modeled after IEEE documentation standards. Oral and written reports are required. Lecture one hour, laboratory three hours.

CSC 191. Senior Project-Part II. 2 Units
Prerequisite(s): CSC 190.
Term Typically Offered: Fall, Spring

Continuation of the group project begun in CSC 190. Teams apply software engineering principles to the design, implementation and testing of their software product. All technical work is published using guidelines modeled after IEEE documentation standards along with an appropriate user manual. Oral and written reports are required. Senior project is completed with the successful delivery, installation and demonstration of the software along with all approved documentation. Lecture one hour, laboratory three hours.

CSC 192. Career Planning. 1 Unit
Prerequisite(s): CSC 130 and three additional upper-division courses that fulfill major requirements with a C- grade or better (excluding CSC 190-195, CSC 198, and CSC 199).
Term Typically Offered: Fall, Spring

Designed to help students learn more about the labor market and opportunities in the Computer Science field. Students will examine their interests, consider their goals, and learn how to conduct an effective proactive job search. Strategies for long term career growth will be identified.
Credit/No Credit

CSC 194. Computer Science Seminar. 1 Unit
Prerequisite(s): Upper division or graduate status in CSC.
Term Typically Offered: Spring only

Series of weekly seminars on Computer Science topics. These topics cover subjects not normally taught in the course of a school year and they range from the very theoretical in Computer Science through applications to presentations by industry on working conditions, real world environment and job opportunities.
Note: May be repeated for credit.

CSC 195. Fieldwork in Computer Science. 1 - 4 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Directed observations and work experience in computer science with firms in the industry or public agencies. Supervision is provided by the instructional staff and the cooperating agencies.
Note: Faculty approval required. May be repeated for credit.

Credit/No Credit

CSC 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the Career Center.
Note: Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit

CSC 195B. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the Career Center.
Note: Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit

CSC 196P. Cloud and Mobile Computing Pragmatics. 3 Units
Prerequisite(s): CSC 134, CSC 138, and CSC 139
Introduction to cloud computing. Cloud services. Deployment options. The installation, configuration, and deployment of a cloud infrastructure based upon industrial standards. Step-by-step cloud setup as well as the development of scripts for automated deployment. The installation, building, deployment, testing, and provisioning of a multi-tier cloud based mobile application as a cloud service.

CSC 196V. Data Visualization. 3 Units
Prerequisite(s): CSC 130, CSC 134, and STAT 50 or ENGR 115.
Term Typically Offered: Fall, Spring

Design principles and concepts for visualizing data; current visualization systems and languages, exploratory data analysis, interaction techniques, high-dimensional data, network visualization, and text visualization.

CSC 198. Co-Curricular Activities in Computer Science. 1 - 3 Units
Term Typically Offered: Fall, Spring

Students will serve in leadership roles in computer science activities, provide tutoring or technical assistance in labs, assist instructors in grading coursework, or assist in other activities related to the subject matter and concerns of the department.
Credit/No Credit

CSC 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading in specified topics in computer science.
Note: Open only to students who appear competent to carry on individual work; approval of faculty supervisor and advisor required. May be repeated for credit.

Credit/No Credit

CSC 201. Programming Language Principles. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Notations for the specification of programming language syntax and semantics; attribute, translational, operational, axiomatic, algebraic, denotational, and action semantics. Applications of programming language syntax and programming language semantics. Use of meta languages to generate executable language definitions for language implementation, program transformation, program property analysis, and rapid software prototyping. Principles of logic, functional, and object-oriented programming languages.

CSC 204. Data Models for Database Management Systems. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Database management system (DBMS) architecture; database file organizations and access methods; the relational model and relational algebra; SQL query language; introduction to query optimization; concurrent transaction processing and backup and recovery; applications using embedded SQL, object types, and stored procedures; database analysis and design notations: EER, UML, and XML; web database environments; database security and administration throughout course.
Note: Not intended for students who have completed CSC 174.

CSC 205. Computer Systems Structure. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering or Computer Engineering.
Term Typically Offered: Fall, Spring

Overview of computer systems organization and design. Concepts of instruction set architecture, interactions of hardware-software interface, principles of performance analysis, processor design, instruction level parallelism, survey of contemporary architectures, hierarchical memory design and analysis, interfacing I/O devices, parallel processing and multiprocessing, and introduction to EDA tools and methodologies for computer systems design and verification.

CSC 206. Algorithms And Paradigms. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Design and analysis of algorithms. Classical design paradigms including greedy, divide-and-conquer, dynamic programming, and backtracking algorithmic methods. Alternative paradigms of computing including parallel and numerical approaches. Theoretical limits of computation. Selected additional topics such as genetic, approximation, and probabilistic algorithms.

CSC 209. Research Methodology. 1 Unit
Prerequisite(s): Enrolled in at least 3 units of 200-level courses in Computer Science.
Term Typically Offered: Fall, Spring

Research methodology, problem formulation, and problem solving. Orientation to the requirements for Master's Thesis or Project. Presentations on various research topics.
Credit/No Credit

CSC 212. Bioinformatics: Data Integration and Algorithms. 3 Units
Prerequisite(s): CSC 130, STAT 50, and graduate status; BIO 10 recommended.
Term Typically Offered: Fall, Spring

The application of information technology and computer science to biological problems, in particular to biomedical science issues involving genetic sequences. Algorithms and their applications to DNA sequencing and protein database search; tools and techniques for data integration to transform genetic sequencing data into comprehensible information to study biological processes.

CSC 214. Knowledge-Based Systems. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Historical perspective of knowledge-based systems and their relationship to artificial intelligence. Concepts of knowledge representation and automated reasoning. Survey of expert systems in a variety of applications in engineering and other fields. Implementation of expert systems and expert system shells.

CSC 215. Artificial Intelligence. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering or Computer Engineering.
Term Typically Offered: Fall, Spring

Nature of intelligence and possibility of its realization on digital computers via algorithmic and heuristic programming methods. Knowledge representation. Search procedures. Problem-solving paradigms and simulation of cognitive processes. Machine learning. Natural language understanding, expert systems, and knowledge engineering. Image understanding. Future of artificial intelligence and limits of machine intelligence.

CSC 219. Machine Learning. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering or Computer Engineering.
Term Typically Offered: Fall, Spring

Introduction to major paradigms and methods of machine learning. Inductive learning, explanation-based learning, classifier systems and genetic algorithms, analogical reasoning, case-based learning, connectionist learning, data driven approaches to empirical discovery, and basis of learning theory. Focus is on representative systems that have been built.

CSC 230. Software System Engineering. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering; or Computer Engineering and CSC 131.
Term Typically Offered: Fall, Spring

Integration of managerial and technical activities in system engineering that control the cost, schedule, and technical achievement of the developing software system. Application of the principles, activities, tasks and procedures of system engineering and software engineering to the development of a software system.

CSC 231. Software Engineering Metrics. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Software quality and quantity metrics in software engineering. Measurement theory and metrics. Metrics include management metrics, indirect and direct metrics and predictive metrics. Uses of metrics include software cost and schedule estimates, model calibration, and software productivity measurements. Metrics techniques include the Goal-Question-Metric approach, COCOMO, and function point analysis.

CSC 232. Software Requirements Analysis and Design. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Software engineering requirements including elicitation, analysis, specification, verification and management. Emphasizes IEEE software engineering requirements and standards and the concept of operations (ConOps) document. Techniques include structured analysis, use cases and object-oriented analysis.

CSC 233. Advanced Software Engineering Project Management. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Advanced methods and procedures for managing a software development project. Includes project planning, scheduling, and cost estimation, project organizational types, staffing and training considerations, leading and motivating computer personnel, and methods for measuring and controlling a project. Emphasizes IEEE software engineering management standards and keys to project success.

CSC 234. Software Verification and Validation. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering; or Computer Engineering and CSC 131.
Term Typically Offered: Fall, Spring

Verification and validation (V & V) techniques to identify and resolve software problems and high-risk issues early in the software lifecycle. Application of V & V to all phases of the lifecycle process. Includes planning and reporting on the V & V effort. Topics also include software quality assurance and software testing.

CSC 235. Software Architecture. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Software architecture styles. Concepts and activities for software architecture design. Notations, models, and specification languages for software architecture design. Engineering discipline and guidance for software architecture design. Techniques, methods, tools for designing, building, analyzing, and evaluating software architecture. Object-oriented approach for software architecture design. Architecture-based software development. Management of software architecture design. Reuse of software architecture design.

CSC 236. Formal Methods in Secure Software Engineering. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Basic concepts of formal methods in secure software engineering; formal methods based software development models and methodologies; formal methods for software system specification, modeling, analysis, verification, information assurance and security; systems and tools for the application of formal methods in secure software engineering; advances of formal methods in secure software engineering.

CSC 237. Microprocessor Systems Architecture. 3 Units
Prerequisite(s): CSC 205.
Term Typically Offered: Fall, Spring

Microprocessor/microcomputer architecture and hardware/software interfacing design. RISC v. CISC architecture in-depth, case studies of several popular commercial advanced 32-bit microprocessors. Microcomputer firmware architecture is discussed and illustrated with detailed examples. Term project in which students specify, design and build the hardware and firmware of a computer system.

CSC 238. Human-Computer Interface Design. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Issues involved in design of interaction between people and computers. Insight and experience in key issues of HCI design. Emphasis on identifying issues and tradeoffs in interaction design. Development and evaluation of alternative solutions to design problems.

CSC 239. Advanced Operating Systems Principles and Design. 3 Units
Prerequisite(s): CSC 205.
Term Typically Offered: Fall, Spring

Advanced concepts of concurrent processes, concurrent programming and operating systems. Virtual memory management systems, deadlock, file systems, operating system performance measurement and evaluation.

CSC 242. Computer-Aided Systems Design and Verification. 3 Units
Prerequisite(s): CSC 205 or CSC/EEE 273.
Term Typically Offered: Fall, Spring

Design and verification methodology using hardware description and verification languages (HDVLs). Advances in IC chip design; introduction to HDVLs such as System Verilog; HDVL language basics including data types, arrays, structures, unions, procedural blocks, tasks, functions, and interface concepts; design hierarchy; verification planning and productivity; verification infrastructure; guidelines for efficient verification of large designs; assertion-based verification; comprehensive computer-related design projects.

CSC 244. Database System Design. 3 Units
Prerequisite(s): CSC 174 or CSC 204.
Term Typically Offered: Fall, Spring

Topics in the design and implementation of database management systems. Database system concepts and architectures; query compiler, query processing algorithms, logical and physical query plans, query optimization; recovery, concurrency control; transaction management in centralized database management systems and distributed database management systems. Also exploration of current research directions, issues, and results related to databases and data management.

CSC 245. Performance Modeling and Evaluation. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Performance and cost measures; software and hardware performance monitors; data reduction and evaluation; analytic and simulation models of hardware and program behavior; performance-cost trade-offs and resource allocation.

CSC 250. Computer Security. 3 Units
Prerequisite(s): Fully classified graduate standing in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

Principles and technologies behind computer security. Introduction to encryption and decryption; security mechanisms in computer programs, operating systems, databases, and networks; administration of computer security, and legal and ethical issues.

CSC 251. Principles of Compiler Design. 3 Units
Prerequisite(s): CSC 151 or CSC 201.
Term Typically Offered: Fall, Spring

Programming language translation, lexical analysis, syntax analysis including LR, LALR, and predictive techniques. Semantic analysis including semantic specification. Code generation and optimization including control and data flow analysis. Storage management. Error detection and recovery.

CSC 252. Cryptography Theory and Practice. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

Introduction to design and analysis of cryptographic systems. Symmetric cryptography: block ciphers and secure hash functions. Asymmetric cryptography: key exchange and public-key systems. Authentication and encryption in an adversarial model. Simple cryptanalysis. Protocol design and analysis.

CSC 253. Computer Forensics. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

Structured security incident investigations internal and external; emphasis on analysis of electronic evidence and proper audit; utilization of scientific aids in obtaining information from computing devices; legal electronic evidence.

CSC 254. Network Security. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

In-depth study of network security problems and discussion of potential solutions. Topics include: network vulnerabilities and attacks, secure communication, Internet security protocols and tools to defend against network attacks, network intrusion detection, and wireless network security. Survey and demonstration of software tools used for network security.

CSC 255. Computer Networks. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering, or a Computer Engineering.
Term Typically Offered: Fall, Spring

Computer networking fundamentals with emphasis on higher level protocols and functions. Network design considerations, software design and layering concepts, interface design, routing and congestion control algorithms, internetworking, transport protocol design, and end-to-end communication, session and application protocols. Specific examples of commercial and international standards.

CSC 258. Distributed Systems. 3 Units
Prerequisite(s): CSC 204 and fully classified graduate status in Computer Science, Software Engineering, or Computer Engineering.
Term Typically Offered: Fall, Spring

Distributed system architectures, distributed object model, component-based design, time and global states, coordination and agreement, distributed transactions and concurrency control, replication, security, distributed multimedia systems, message passing and distributed shared memory, Web services and Service-Oriented Architecture (SOA), Grid computing. Emphasis on scalability, manageability, security, and dependability of distributed systems.

CSC 273. Hierarchical Digital Design Methodology. 3 Units
Prerequisite(s): CSC 205, CPE 64, or equivalent.
Term Typically Offered: Fall, Spring

Advanced logic modeling, simulation, and synthesis techniques. Topics include modeling, simulation, and synthesis techniques, using Hardware Description Language (HDL's), Register Transfer Level (RTL) representation, high-level functional partitioning, functional verification and testing, computer-aided logic synthesis, logical verification and testing, timing and delay analysis, automated place and route process, and design with Application Specific Integrated Circuits (ASICs) and programmable logic.
Cross Listed: EEE 273; only one may be counted for credit.

CSC 275. Advanced Data Communication Systems. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering, or Computer Engineering.
Term Typically Offered: Fall, Spring

Fundamental concepts, principles and issues of data communication systems. The ISO/OSI reference model is used as a vehicle for discussion and emphasizes the lower layer of the model. Specific topics include: motivation and objectives, layered architectures, physical layer principles and protocols, data link and medium access control principles and protocols, circuit, packet and cell switching, local area network design principles and performance comparisons, high speed networking, introduction to wide area network architectures. Typical examples and standards are cited for point-to-point, satellite, packet radio and local area networks.

CSC 280. Advanced Computer Architecture. 3 Units
Prerequisite(s): CSC 205 and fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Introduction to parallel architecture covering computer classification schemes, fine and coarse grain parallelism, processor interconnections, and performance issues of multiprocessor systems. Includes parallel and pipelined instruction execution, structure of multiprocessor systems, memory hierarchy and coherency in shared memory systems, programming issues of multiprocessor systems, arithmetic pipeline design, and design for testability.
Cross Listed: EEE 280; only one may be counted for credit.

CSC 288. Special Topics in Computer Science - Software Engineering. 3 Units
Term Typically Offered: Fall, Spring

Contemporary topics in computer science will be offered as needed. Topics offered:

CSC 295. Fieldwork. **1 - 3 Units**
Term Typically Offered: Fall, Spring

Directed observations and work experience in computer science with firms in the industry or public agencies. Supervision is provided by the instructional staff and the cooperating agencies.
Note: Faculty approval required. May be repeated for credit.

Credit/No Credit

CSC 299. Special Problems. **1 - 3 Units**
Term Typically Offered: Fall, Spring

Any properly qualified student who wishes to pursue a problem of his own choice may do so if the proposed subject is acceptable to the member of the staff with whom he/she works and to his/her advisor.
Note: May be repeated for credit.

Credit/No Credit

CSC 500. Master's Thesis. **1 - 5 Units**
Prerequisite(s): CSC 209; advanced to candidacy.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree.
Note: May be repeated for credit.

CSC 502. Master's Project. **1 - 2 Units**
Prerequisite(s): CSC 209; advanced to candidacy.
Term Typically Offered: Fall, Spring

Completion of a project approved for the Master's degree.

BS in Computer Science

Units required for Major: 81
Total units required for BS: 129

Program Description

The Bachelor of Science degree in Computer Science is accredited by the Computing Accreditation Commission (CAC) of ABET, Inc. (http://www.abet.org/), providing majors with a sound educational base in Computer Science.

Note: Students graduating with a Bachelor of Science Computer Science will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Course Repeat Policy: Please see University Repeat Policy for more information.

Note: Useful information can also be found in the College of Engineering and Computer Science section.

Work Experience: Students may receive a limited amount of academic credit for relevant work experience in Computer Science. There are many opportunities for students to work part-time in the federal, state, and local governments. A significant number of positions in private industry are also available in both well-established and new companies in the Sacramento area. Such work experiences often lead to permanent positions upon graduation.

Pre-Major Requirements

All students are admitted as pre-Computer Science majors. Registration in upper-division courses numbered 133 and above is restricted to Computer Science and Computer Engineering majors. Other students need to obtain approval from the CSC Department Chair.

To change to the Computer Science major, students who have completed the following lower division (pre-major) requirements are required to complete and submit a Change of Major form to the Computer Science Department Office along with transcript copies:

Code	Title	Units
CSC 15	Programming Concepts and Methodology I	3
CSC 20	Programming Concepts and Methodology II	3
CSC 28	Discrete Structures for Computer Science	3
CSC 35	Introduction to Computer Architecture	3
CSC 60	Introduction to Systems Programming in UNIX	3
MATH 26A/30	Calculus I for the Social and Life Sciences	3
MATH 26B/31	Calculus II for the Social and Life Sciences	3

Minimum Grade Requirement

Grade of 'C-' or better required in all courses applied to the Computer Science major.

Program Requirements

Code	Title	Units
Required Lower Division Courses (15 Units)		
CSC 15	Programming Concepts and Methodology I	3
CSC 20	Programming Concepts and Methodology II	3
CSC 28	Discrete Structures for Computer Science	3
CSC 35	Introduction to Computer Architecture	3
CSC 60	Introduction to Systems Programming in UNIX	3
Required Mathematics and Science Courses (24 Units)		
MATH 26A	Calculus I for the Social and Life Sciences [1]	3
or MATH 30	Calculus I	
MATH 26B	Calculus II for the Social and Life Sciences	3
or MATH 31	Calculus II	
STAT 50	Introduction to Probability and Statistics	4
or ENGR 115	Statistics For Engineers	
PHYS 5A	General Physics: Mechanics, Heat, Sound	4
or PHYS 11A	General Physics: Mechanics	
Select 10 units of the following: [2]		10
Any MATH or STAT course with calculus as a prerequisite		
CHEM 1A	General Chemistry I	
CHEM 1E	General Chemistry for Engineering	
CSC 148	Modeling and Experimental Design	
PHIL 160	Deductive Logic II	
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics	
PHYS 11B	General Physics: Heat, Light, Sound, Modern Physics [1]	
PHYS 11C	General Physics: Electricity and Magnetism	
PHYS 106	Introduction to Modern Physics	
PHYS 162	Scientific Computing: Basic Methods	

PHYS 163	Scientific Computing: Modeling, Simulation, and Visualization	
Required Upper Division Courses (33 Units)		
CSC 130	Data Structures and Algorithm Analysis	3
CSC 131	Computer Software Engineering	3
CSC 133	Object-Oriented Computer Graphics Programming	3
CSC 134	Database Management Systems	3
CSC 135	Computing Theory and Programming Languages [1]	3
CSC 137	Computer Organization	3
CSC/CPE 138	Computer Networks and Internets	3
CSC 139	Operating System Principles	3
CSC 190	Senior Project: Part I	2
CSC 191	Senior Project-Part II	2
PHIL 103	Business and Computer Ethics [1]	3
Select two units from the following:		2
CSC 192	Career Planning	
CSC 194	Computer Science Seminar	
CSC 195	Fieldwork in Computer Science	
CSC 195A	Professional Practice	
CSC 198	Co-Curricular Activities in Computer Science	
CSC 199	Special Problems	
Electives (9 Units)		
Select 9 units of CSC courses 140 or above **excluding** the following: [3]		9
CSC 192	Career Planning	
CSC 194	Computer Science Seminar	
CSC 195	Fieldwork in Computer Science	
CSC 195A	Professional Practice	
CSC 198	Co-Curricular Activities in Computer Science	
CSC 199	Special Problems	
Total Units		81

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] In addition to the math and science courses (minimum 14 units), students must choose elective courses to bring the total number of math and science units to a minimum of 24.

[3] In addition to the required lower-division and upper-division Computer Science courses, Computer Science majors must take additional elective courses, totaling at least nine (9) units, from undergraduate Computer Science courses numbered CSC 140 or above (excluding the listed courses).

Note: To satisfy the requirement of CAC, the Computing Accreditation Commission of ABET, which accredits computer science programs, one or more electives must be from MATH (p. 1445), STAT (p. 1560) or PHIL (p. 1485) (MATH 100 Recommended). Courses may not be selected with significantly overlapping topics. Students who select MATH 26A and MATH 26B for their calculus sequence must take STAT 50 and PHYS 5A. The following are recommended for students considering graduate school or an engineering major:

Code	Title	Units
MATH 30	Calculus I	4
MATH 31	Calculus II	4
PHYS 11A	General Physics: Mechanics	4
PHYS 11C	General Physics: Electricity and Magnetism	4

The following are recommended for students considering a math or statistics minor:

Code	Title	Units
MATH 30	Calculus I	4
MATH 31	Calculus II	4
STAT 50	Introduction to Probability and Statistics	4

The following are recommended for students considering a scientific computing and simulation certificate and willing to take PHYS 163 as an additional course:

Code	Title	Units
Select one of the following:		4
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics	
PHYS 11B	General Physics: Heat, Light, Sound, Modern Physics	
PHYS 11C	General Physics: Electricity and Magnetism	
PHYS 162	Scientific Computing: Basic Methods	3

If CSC 148 is chosen as an elective to meet the math and science requirements, it cannot be used for a computer science elective. An undergraduate handbook with further course selection advice is available at the department website.

Course choices should be made with advisor consultation. With advance written approval from their advisor, the course instructor, and the Department Chair, students with a GPA of 3.0 or greater may take graduate courses as electives. In any case students must meet the prerequisite stated in the catalog prior to taking any elective course.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5 [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]		0
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area Course C		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3

Area D Course	3
Area D Course	3
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]	0
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	36

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Computer Science are exempt from the Foreign Language Graduation Requirement.

Certificate in Advanced Programs - Graduate

Program Description

The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available **only** for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

Code	Title	Units
CSC 201	Programming Language Principles	3
CSC 204	Data Models for Database Management Systems	3
CSC 205	Computer Systems Structure	3
CSC 206	Algorithms And Paradigms	3

Certificate in Computer Architecture - Graduate

Units required for Certificate: 9

Program Description

The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available **only** for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

Code	Title	Units
CSC 242	Computer-Aided Systems Design and Verification	3
CSC/EEE 280	Advanced Computer Architecture	3
Select one of the following:		3
CSC 237	Microprocessor Systems Architecture	
CSC 245	Performance Modeling and Evaluation	
CSC 258	Distributed Systems	
CSC/EEE 273	Hierarchical Digital Design Methodology	
CSC 288	Special Topics in Computer Science - Software Engineering	
Total Units		9

Certificate in Computer Engineering - Graduate

Units required for Certificate: 9

Program Description

The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available **only** for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

Code	Title	Units
Select one of the following:		3
CSC 237	Microprocessor Systems Architecture	

CSC/EEE 280	Advanced Computer Architecture	
EEE 285	Micro-Computer System Design I	
Select one of the following:		3
CSC 242	Computer-Aided Systems Design and Verification	
CSC/EEE 273	Hierarchical Digital Design Methodology	
Select one of the following:		3
CSC/CPE 159	Operating System Pragmatics	
CSC 239	Advanced Operating Systems Principles and Design	
Total Units		9

Certificate in Computer Networks and Communications - Graduate

Units required for Certificate: 9

Program Description

The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available **only** for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Description

Code	Title	Units
CSC 255	Computer Networks	3
Select two of the following:		6
CSC 254	Network Security	
CSC 258	Distributed Systems	
CSC 275	Advanced Data Communication Systems	
CSC 288	Special Topics in Computer Science - Software Engineering	
Total Units		9

Certificate in Cyber Defense and Operations

Units required for Certificate: 12

Program Description

The Cyber Defense and Operations certificate includes the same courses as the Information Assurance and Security certificate, but additional requires advanced study in operating systems. An understanding of operating system pragmatics better prepares students for the technical work needed in defending and hardening networked computer systems. Students will not be awarded the Information Assurance and Security certificate if they complete the requirements for the Cyber Defense and Operations certificate.

Academic Certificates

In addition to completing the requirements for the Bachelor of Sciences in Computer Science degree program, students enrolled in the major may also complete one of the (optional) 9-12 unit Academic Certificate programs. Each certificate includes 9 required units which can overlap with elective coursework taken to satisfy the major requirements, with some of the certificates requiring 3 additional units (1 additional course) beyond the degree requirements. Students interested in earning a certificate in addition to their degrees should meet with an academic advisor.

Requirements for Certificates

Certain combinations of courses gives students a deeper understanding of specialized areas in Computer Science. Completion of any of the following course lists entitles the student to receive a certificate indicating that they concentrated their elective study in the particular area. The Computer Science Department will try and offer on a regular basis all courses required for each certificate, but course cancellations and scheduling conflicts do sometimes occur causing students difficulty in completing their desired course study. In such situations, students may need to forgo completion of their certificate. Printed certificates must be requested directly from the Computer Science Department office after a student graduates.

Program Requirements

Code	Title	Units
CSC 152	Cryptography	3
CSC 153	Computer Forensics Principles and Practices	3
CSC 154	Computer System Attacks and Countermeasures	3
CSC/CPE 159	Operating System Pragmatics	3
Total Units		12

Certificate in Data Management Systems - Graduate

Units required for Certificate: 9

Program Description

The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available **only** for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

Code	Title	Units
Select three of the following:		9
CSC 244	Database System Design	
CSC 250	Computer Security	
CSC 258	Distributed Systems	
CSC 288	Special Topics in Computer Science - Software Engineering	
Total Units		9

Certificate in Data Mining - Graduate

Units required for Certificate: 9

Program Description

The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available **only** for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

Code	Title	Units
CSC 177	Data Analytics and Mining	3
CSC 219	Machine Learning	3
Select one of the following:		3
CSC 212	Bioinformatics: Data Integration and Algorithms	
CSC 244	Database System Design	
Total Units		9

Certificate in Game Engineering

Units required for Certificate: 12

Program Description

This certificate is intended to give students an opportunity to explore the science and engineering of computer games, and to prepare students for careers in those fields of computing which utilize or are heavily impacted by advances in computer gaming. These include such areas as video and strategy game development, 3-D graphics, modeling and animation and their support tools, intelligent decision making, specialized user interface hardware, machine learning, and working in interdisciplinary teams.

Academic Certificates

In addition to completing the requirements for the Bachelor of Sciences in Computer Science degree program, students enrolled in the major may also complete one of the (optional) 9-12 unit Academic Certificate programs. Each certificate includes 9 required units which can overlap with elective coursework taken to satisfy the major requirements, with some of the certificates requiring 3 additional units (1 additional course) beyond the degree requirements. Students interested in earning a certificate in addition to their degrees should meet with an academic advisor.

Requirements for Certificates

Certain combinations of courses gives students a deeper understanding of specialized areas in Computer Science. Completion of any of the following course lists entitles the student to receive a certificate indicating that they concentrated their elective study in the particular area. The Computer Science Department will try and offer on a regular basis all courses required for each certificate, but course cancellations and scheduling conflicts do sometimes occur causing students difficulty in completing their desired course study. In such situations, students may need to forgo completion of their certificate. Printed certificates must be requested directly from the Computer Science Department office after a student graduates.

Program Requirements

Code	Title	Units
CSC 155	Advanced Computer Graphics	3
CSC 165	Computer Game Architecture and Implementation	3
CSC 180	Intelligent Systems	3
Select one of the following:		3
CSC 126/ ART 142	3D Computer Modeling	
CSC 127/ ART 142	3D Computer Animation	
CSC/CPE 159	Operating System Pragmatics	
CSC 177	Data Analytics and Mining	
Total Units		12

Certificate in Information Assurance and Security

Units required for Certificate: 12

Program Description

The Information Assurance and Security certificate is designed to help students advance their technical skills to prepare for a leadership role in planning, managing, certifying and accrediting a security and incident response plan for their organization - including methods to combat threats to organization information resources, which in today's world is becoming top priority for many businesses since most information is in electronic form.

Academic Certificates

In addition to completing the requirements for the Bachelor of Sciences in Computer Science degree program, students enrolled in the major may also complete one of the (optional) 9-12 unit Academic Certificate programs. Each certificate includes 9 required units which can overlap with elective coursework taken to satisfy the major requirements, with some of the certificates requiring 3 additional units (1 additional course) beyond the degree requirements. Students interested in earning a certificate in addition to their degrees should meet with an academic advisor.

Requirements for Certificates

Certain combinations of courses gives students a deeper understanding of specialized areas in Computer Science. Completion of any of the following course lists entitles the student to receive a certificate indicating that they concentrated their elective study in the particular area. The Computer Science Department will try and offer on a regular basis all courses required for each certificate, but course cancellations and scheduling conflicts do sometimes occur causing students difficulty in completing their desired course study. In such situations, students may need to forgo completion of their certificate. Printed certificates must be requested directly from the Computer Science Department office after a student graduates.

Program Requirements

Code	Title	Units
CSC 152	Cryptography	3
CSC 153	Computer Forensics Principles and Practices	3

CSC 154	Computer System Attacks and Countermeasures	3
Total Units		9

Certificate in Information Assurance and Security - Graduate

Units required for Certificate: 9

Program Description

The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available **only** for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

Code	Title	Units
Select three of the following:		9
CSC 236	Formal Methods in Secure Software Engineering	
CSC 250	Computer Security	
CSC 252	Cryptography Theory and Practice	
CSC 253	Computer Forensics	
CSC 254	Network Security	
Total Units		9

Certificate in Intelligent Systems - Graduate

Units required for Certificate: 9

Program Description

The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available **only** for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

Code	Title	Units
CSC 215	Artificial Intelligence	3
Select two of the following:		6
CSC 214	Knowledge-Based Systems	
CSC 219	Machine Learning	
CSC 288	Special Topics in Computer Science - Software Engineering	
Total Units		9

Certificate in Software Engineering

Units required for Certificate: 12

Program Description

The Software Engineering certificate is designed to focus on the principles of designing, building, testing and maintaining reliable, efficient, and secure software systems. The certificate is designed to emphasize the knowledge, competencies, and skills needed to produce competent graduates to begin a professional career in the field of software engineering, or pursue graduate programs.

Academic Certificates

In addition to completing the requirements for the Bachelor of Sciences in Computer Science degree program, students enrolled in the major may also complete one of the (optional) 9-12 unit Academic Certificate programs. Each certificate includes 9 required units which can overlap with elective coursework taken to satisfy the major requirements, with some of the certificates requiring 3 additional units (1 additional course) beyond the degree requirements. Students interested in earning a certificate in addition to their degrees should meet with an academic advisor.

Requirements for Certificates

Certain combinations of courses gives students a deeper understanding of specialized areas in Computer Science. Completion of any of the following course lists entitles the student to receive a certificate indicating that they concentrated their elective study in the particular area. The Computer Science Department will try and offer on a regular basis all courses required for each certificate, but course cancellations and scheduling conflicts do sometimes occur causing students difficulty in completing their desired course study. In such situations, students may need to forgo completion of their certificate. Printed certificates must be requested directly from the Computer Science Department office after a student graduates.

Program Requirements

Code	Title	Units
CSC 170	Software Requirements and Specification	3
CSC 171	Software Engineering Project Management	3
CSC 179	Software Testing and Quality Assurance	3
Select one of the following:		3
CSC 154	Computer System Attacks and Countermeasures	
CSC 174	Advanced Database Management Systems	
CSC 176	Database Architecture and Optimization	
CSC 177	Data Analytics and Mining	
Total Units		12

Certificate in Software Engineering - Graduate

Units required for Certificate: 9

Program Description

The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available **only** for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

Code	Title	Units
Select three of the following:		9
CSC 230	Software System Engineering	
CSC 231	Software Engineering Metrics	
CSC 232	Software Requirements Analysis and Design	
CSC 233	Advanced Software Engineering Project Management	
CSC 234	Software Verification and Validation	
CSC 235	Software Architecture	
CSC 236	Formal Methods in Secure Software Engineering	
CSC 238	Human-Computer Interface Design	
CSC 288	Special Topics in Computer Science - Software Engineering	
Total Units		9

Certificate in Systems Software

Units required for Certificate: 12

Program Description

The Systems Software Certificate provides necessary background to participate in the development of low-level software for computer hardware and the software infrastructure needed by application developers. Understanding how such software operates makes students valuable additions to interdisciplinary teams where exploiting features of systems tools is important. The certificate will also prepare students to design, implement, and be effective users of systems tools such as language processors, utilities, and diagnostic tools.

Program Requirements

Code	Title	Units
CSC 151	Compiler Construction	3
CSC/CPE 159	Operating System Pragmatics	3
Select two of the following:		6
CSC/CPE 142	Advanced Computer Organization	
CSC 148	Modeling and Experimental Design	
CSC 154	Computer System Attacks and Countermeasures	
CSC 155	Advanced Computer Graphics	
CSC 165	Computer Game Architecture and Implementation	
Total Units		12

Certificate in Systems Software - Graduate

Units required for Certificate: 9

Program Description

The Certificates in Computer Science program are designed to recognize students who have completed the following core graduate courses plus additional advanced coursework in a specialty area.

These certificates are available **only** for MS Computer Science matriculated students.

Note: Minimum required GPA for all courses taken in the program: 3.0

Program Requirements

Code	Title	Units
CSC 239	Advanced Operating Systems Principles and Design	3
Select at least two of the following:		6
CSC 245	Performance Modeling and Evaluation	
CSC 250	Computer Security	
CSC 251	Principles of Compiler Design	
CSC 258	Distributed Systems	
CSC 288	Special Topics in Computer Science - Software Engineering	
Total Units		9

Minor in Computer Science

Units required for Minor: 21

Program Description

The Minor in Computer Science is available for students majoring in disciplines other than Computer Engineering.

Admission Requirement

Completion of MATH 29 with a grade of 'C-' or better, or passing the ELM at a level qualifying for MATH 30.

Minimum Grade Requirement

Grade of 'C-' or better required in all courses applied to the Computer Science minor.

Program Requirements

Code	Title	Units
Required Courses (12 Units)		
CSC 15	Programming Concepts and Methodology I	3
CSC 20	Programming Concepts and Methodology II	3
CSC 28	Discrete Structures for Computer Science	3
CSC 130	Data Structures and Algorithm Analysis	3
Electives (9 Units)		
Select 9 units with faculty approval [1]		9
Total Units		21

[1] At least six units must be upper division courses, and only Computer Science courses which are part of the major may be applied to this nine-unit requirement.

Minor in Information Security and Computer Forensics

Units required for Minor: 15

Program Description

The Minor in Information Security and Computer Forensics is available for students majoring in disciplines other than Computer Engineering.

Minimum Grade Requirement

Grade of 'C-' or better required in all courses applied to the Computer Science minor.

Program Requirements

Code	Title	Units
Required Courses (15 Units)		
CSC 1	Introduction to Computer Science	3
Select one of the following:		3
CSC 8	Introduction to Internet Technologies	
CSC 8S	Self-Paced Introduction to Internet Technologies	
CSC 80	Web Development with HTML/XHTML and Tools	
Select one of the following:		3
CSC 15	Programming Concepts and Methodology I	
CSC 22	Visual Programming in BASIC	
CSC 25	Introduction to C Programming	
CSC 115	Internet Security	3
CSC 116	Cyber Forensics	3
Total Units		15

MS in Computer Science

Total units required for MS: 30

Program Description

The Computer Science Department offers Master's Degree programs in Computer Science and Software Engineering, Certificates of Advanced Study for students enrolled in the Computer Science program, and a Master's Degree joint program in Computer Engineering.

The primary goal of each of these programs is to prepare students to serve as effective professional computer specialists in a society which increasingly depends on computer usage and technology.

A secondary goal is to prepare interested students for research, teaching, or further study toward the Ph.D. in Computer Science. The programs also enable individuals with background in other areas to obtain the skills and knowledge necessary to enter and advance in employment in computer-related industries.

Completion of the Master of Science in Computer Science requires advanced coursework in a minimum of three of the following areas: computer architecture/computer engineering, database management systems, information assurance and security, intelligent systems, networks and communications, software engineering, and systems software.

Teaching associateships are occasionally available for qualified graduate students; these students assist in instruction of undergraduate courses, supervision of laboratory work, and aid faculty members in research projects. Interested persons should apply in the Department office.

Due to the large number of graduate students in Computer Science who are employed, most graduate level courses are offered in the late afternoon or evening.

Admission Requirements

Admission as a classified graduate student requires:

- a baccalaureate degree;
- a minimum 3.0 GPA in the last 60 units attempted;
- GRE general test;
- mathematical preparation including two semesters of calculus and one semester of calculus-based probability and statistics corresponding to Sacramento State courses:

Code	Title	Units
MATH 30	Calculus I	4
MATH 31	Calculus II	4
STAT 50	Introduction to Probability and Statistics	4

- Computer Science lower-division preparation including programming proficiency, discrete structures, machine organization, and UNIX and PC-based program development environment proficiency corresponding to Sacramento State courses (see the following) and as evidenced by a pass on the graduate student placement test or a baccalaureate degree in Computer Science;

Code	Title	Units
CSC 15	Programming Concepts and Methodology I	3
CSC 20	Programming Concepts and Methodology II	3
CSC 28	Discrete Structures for Computer Science	3
CSC 35	Introduction to Computer Architecture	3
CSC 60	Introduction to Systems Programming in UNIX	3

- Computer Science advanced preparation as evidenced by a 3.25 GPA in the following Sacramento State upper division Computer Science courses or their equivalent elsewhere:

Code	Title	Units
CSC 130	Data Structures and Algorithm Analysis	3
CSC 131	Computer Software Engineering	3
CSC 132	Computing Theory	3
CSC 134	Database Management Systems	3
CSC 137	Computer Organization	3
CSC/CPE 138	Computer Networks and Internets	3
CSC 139	Operating System Principles	3

Applicants with deficiencies in the admission requirements area are advised to remove any such deficiencies before applying.

Admission Procedures

Applicants must complete a university application and a separate departmental application by the posted application deadline dates for the term applying. *For more admissions information and application deadlines, please visit the Office of Graduate Studies* website (http://www.csus.edu/gradstudies/):

- an online application for admission;
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State;* and
- official GRE general test scores.

Minimum Units and Grade Requirement for the Degree

Units Required for the MS: 30

Minimum Cumulative GPA: 3.0. No grade below 'C' may count toward the degree.

Note: Only those courses completed within seven years prior to date of graduation will satisfy course requirements.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of graduate level (200 series) Computer Science courses with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Students must have been advanced to candidacy before they can register for Master's thesis or project. Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a Computer Science graduate advisor. The completed form must be signed by the Graduate Coordinator or the Department Chair and is then returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Courses (13 Units)		**13**
CSC 201	Programming Language Principles	3
CSC 204	Data Models for Database Management Systems [1]	3
CSC 205	Computer Systems Structure [1]	3
CSC 206	Algorithms And Paradigms	3
CSC 209	Research Methodology	1
Breadth Requirement (9 Units)		
Select one course from three of the following areas:		9
Computer Architecture/Computer Engineering		
CSC 237	Microprocessor Systems Architecture	
CSC 242	Computer-Aided Systems Design and Verification	
CSC/EEE 273	Hierarchical Digital Design Methodology	
CSC/EEE 280	Advanced Computer Architecture	
Database Management Systems		
CSC 212	Bioinformatics: Data Integration and Algorithms	
CSC 244	Database System Design	
Information Assurance and Security		
CSC 250	Computer Security	
CSC 252	Cryptography Theory and Practice	
CSC 253	Computer Forensics	
CSC 254	Network Security	
Intelligent Systems		
CSC 214	Knowledge-Based Systems	
CSC 215	Artificial Intelligence	
CSC 219	Machine Learning	
Networks and Communications		
CSC 255	Computer Networks	
CSC 258	Distributed Systems	
CSC 275	Advanced Data Communication Systems	
Software Engineering		
CSC 230	Software System Engineering	
CSC 231	Software Engineering Metrics	
CSC 232	Software Requirements Analysis and Design	
CSC 233	Advanced Software Engineering Project Management	
CSC 234	Software Verification and Validation	
CSC 235	Software Architecture	
CSC 236	Formal Methods in Secure Software Engineering	
CSC 238	Human-Computer Interface Design	
System Software		
CSC 239	Advanced Operating Systems Principles and Design	
CSC 245	Performance Modeling and Evaluation	
CSC 250	Computer Security	
CSC 251	Principles of Compiler Design	
Restricted Electives (3-6 Units)		
Select 3-6 units [2]		3 - 6
Culminating Requirement (2-5 Units)		
Select one of the following:		2 - 5
CSC 500	Master's Thesis [3]	
CSC 502	Master's Project [3]	
Total Units		30-33

[1] Students whose undergraduate preparation has covered a significant amount of the material in CSC 204 or CSC 205 may be given a waiver by the Department from taking one or more of these courses. In this case, for each course waived with department approval, the student must take three additional units of Restricted Electives.

[2] Prior to taking an elective course, students must obtain approval from their advisor, and either the Graduate Coordinator or the Department Chair.
Students should choose their electives according to the following guidelines:

1. One of the following upper division courses: CSC 148, CSC 155, CSC 159/CPE 159, CSC 165, CSC 176, CSC 177 as long as they have not been used towards another degree. (A maximum of 6 undergraduate units may be used in any graduate program.)
2. Any 200-level CSC courses not already used to satisfy the Breadth Requirement, with the exception of CSC 295 and CSC 299. Students not required to take CSC 204 or CSC 205 must, for each course waived, take an additional three units in this category.
3. Related 200-level courses from outside the Computer Science Department may only be taken with prior department approval and may not have been used in another program.

[3] Students are required to make an oral presentation of their master's project or conduct an oral defense of their master's thesis. The recommended department-level deadline in each semester for submitting an MS project or thesis signed by the committee chair and its members to the Graduate Coordinator's office is 10 weekdays prior to the University deadline.

MS in Software Engineering

Total units required for MS: 30

Program Description

This degree provides the student with the ability to specialize in the application of software engineering principles to the development of large and complex computer systems.

The program's courses are structured to satisfy two groups of students:

1. those pursuing an MSSE degree and
2. those interested in individual courses.

Individuals wishing to pursue a degree must satisfy the Computer Science graduate program entrance requirements. Those enrolling in individual courses must have an undergraduate degree in Computer Science (or related field) or a minimum of one-year's work experience involving some aspect of software engineering.

The MS Degree in Software Engineering offers, in addition to a core curriculum, advanced studies in the software engineering area. This program covers the entire software application development process from problem definition through requirements, design, implementation, testing, operation, and maintenance.

Teaching associateships are occasionally available for qualified graduate students; these students assist in instruction of undergraduate courses, supervision of laboratory work, and aid faculty members in research projects. Interested persons should apply in the Department office.

Admission Requirements

Admission as a classified graduate student requires:

- a baccalaureate degree;
- a minimum 3.0 GPA in the last 60 units attempted;
- GRE general test;
- mathematical preparation including two semesters of calculus and one semester of calculus-based probability and statistics corresponding to Sacramento State courses:

Code	Title	Units
MATH 30	Calculus I	4
MATH 31	Calculus II	4
STAT 50	Introduction to Probability and Statistics	4

- Computer Science lower-division preparation including programming proficiency, discrete structures, machine organization, and UNIX and PC-based program development environment proficiency corresponding to Sacramento State courses (see the following) and as evidenced by a pass on the graduate student placement test or a baccalaureate degree in Computer Science;

Code	Title	Units
CSC 15	Programming Concepts and Methodology I	3
CSC 20	Programming Concepts and Methodology II	3
CSC 28	Discrete Structures for Computer Science	3
CSC 35	Introduction to Computer Architecture	3
CSC 60	Introduction to Systems Programming in UNIX	3

- Computer Science advanced preparation as evidenced by a 3.25 GPA in the following Sacramento State upper division Computer Science courses or their equivalent elsewhere:

Code	Title	Units
CSC 130	Data Structures and Algorithm Analysis	3
CSC 131	Computer Software Engineering	3
CSC 132	Computing Theory	3
CSC 134	Database Management Systems	3
CSC 137	Computer Organization	3
CSC/CPE 138	Computer Networks and Internets	3
CSC 139	Operating System Principles	3

Applicants with deficiencies in the admission requirements area are advised to remove any such deficiencies before applying.

Admission Procedures

Applicants must complete a university application and a separate departmental application by the posted application deadline dates for the term applying. *For more admissions information and application deadlines, please visit the Office of Graduate Studies* website (http://www.csus.edu/gradstudies/):

- an online application for admission;
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State;* and
- official GRE general test scores.

Minimum Units and Grade Requirement for the Degree

Units Required for the MS: 30

Minimum Cumulative GPA: 3.0. No grade below 'C' may count toward the degree.

Note: Only those courses completed within seven years prior to date of graduation will satisfy course requirements.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of graduate level (200 series) Computer Science courses with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Students must have been advanced to candidacy before they can register for Master's thesis or project. Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a Computer Science graduate advisor. The completed form must be signed by the

Graduate Coordinator or the Department Chair and is then returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Software Engineering Courses (21 Units)		**21**
Select seven of the following:		21
CSC 230	Software System Engineering	
CSC 231	Software Engineering Metrics	
CSC 232	Software Requirements Analysis and Design	
CSC 233	Advanced Software Engineering Project Management	
CSC 234	Software Verification and Validation	
CSC 235	Software Architecture	
CSC 236	Formal Methods in Secure Software Engineering	
CSC 238	Human-Computer Interface Design	
Required Research Methodology (1 Unit)		
CSC 209	Research Methodology	1
Restricted Electives (3-6 Units)		
Select 3-6 units [1]		3 - 6
Culminating Requirement (2-5 Units)		
Select one of the following:		2 - 5
CSC 500	Master's Thesis [2]	
CSC 502	Master's Project [2]	
Total Units		30-33

[1] Prior to taking an elective course, students must obtain approval from their advisor, and either the Graduate Coordinator or the Department Chair. Students should choose their electives according to the following guidelines:

1. One of the following upper-division courses: CSC 148, CSC 155, CSC 159/CPE 159, CSC 165, CSC 176, CSC 177, as long as they have not been used towards another degree. (A maximum of 6 undergraduate units may be used in any graduate program.)
2. Any 200-level CSC course not already used to satisfy requirement A and B, with the exception of CSC 295 and CSC 299. An additional three units in this category must be taken if a core course is waived.
3. Related 200-level courses from outside the Computer Science Department may only be taken with prior department approval and may not have been used in another program.

[2] Students are required to make an oral presentation of their master's project or conduct an oral defense of their master's thesis. The recommended department-level deadline in each semester for submitting an MS project or thesis signed by the Committee Chair and its members to the Graduate Coordinator's office is 10 weekdays prior to the University deadline.

Construction Management

College of Engineering and Computer Science

Program Description

The Sacramento State University Construction Management degree prepares students for managerial positions with contractors and other organizations involved in the construction process. For a graduate, this preparation can combine with experience and lead to recognition as a construction professional, a Constructor. The construction professional is responsible for the execution of construction work, for the creation of completed projects from plans prepared by design professionals such as architects and engineers. What is to be built is defined by design professionals; how the work is to be accomplished is the concern of the Constructor. A Constructor determines the methods to be used and directs the economical application of resources in the construction of timely and safe projects at satisfactory prices, and to the required standards of quality.

The immediate objective of the program is to provide university-level preparation for managerial positions in construction and a foundation for continued learning. The curriculum emphasizes subject areas that are significant to the Constructor: engineering fundamentals, construction management, business administration, humanities and social sciences, and the development of analytical and communication skills.

Degree Program

BS in Construction Management with a Minor in Business Administration (p. 595)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Construction Management is also individually accredited by the American Council for Construction Education.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

To meet the objectives of this specialized professional program, the Construction Management curriculum consists of four distinct components:

Engineering: Based in sciences and mathematics, this component stresses engineering principles and their application to the construction process. This component provides sound engineering fundamentals.

Construction Management: This component utilizes the functional approach as a framework for studying the management of the construction process. In the individual courses, construction activities are analyzed from a managerial viewpoint and the functions of management are stressed.

Business Administration Courses: Business courses form the third component and reinforce the program's management emphasis. A minor in Business Administration is obtained by combining the required lower and upper division business courses. Furthermore, completing the minor

requirements can satisfy many of the core requirements of the graduate program in Business Administration at Sacramento State.

General Education Courses: The fourth component is critical to the success of construction students who must be sensitive to the issues driving contemporary society.

- This unique program is accredited by the American Council for Construction Education (ACCE).

Academic Policies and Procedures

The following is a summary of policies and procedures specific to the Construction Management program. Other university policies and procedures in this catalog also apply to Construction Management majors. The Department will not hear petitions for deviation from articulated policies made by students who disregard catalog policy.

- Most Construction Management courses require a grade of 'C-' or better.
- **Course Repeat Policy:** Undergraduate Construction Management courses that are used to meet the degree requirements for the Bachelor of Science degree in Construction Management may be repeated only twice (for a total of three attempts). Grades of the second and third attempt will be averaged in grade point calculations.

Career Possibilities

Construction Manager · General Contractor · Sub-Contractor · Project Manager · Construction Estimator · Technical Salesperson · Construction Scheduler or Planner · Forensic Construction Specialist · Environmental Remediation Contractor · Construction Consultant

Contact Information

Mikael Anderson, P.E., Professor and Department Chair
Anyssa Lumbert, Administrative Support Coordinator
Riverside Hall 4026
(916) 278-6616
Department of Construction Management Website (http://www.csus.edu/cm/)

Faculty

ANDERSON, MIKAEL

FIGGESS, GARETH

HANSEN, KAREN L.

SALAMA, TAREK

CM 9. Construction Surveying and Layout. 3 Units
Prerequisite(s): CM 10, CM 20, CM 21 and either Math 26A or MATH 30 ; CM 21 and Math 26A or MATH 30 may be taken concurrently.
Corequisite(s): CM 21.
Term Typically Offered: Fall, Spring

Geomatics and the principles of surveying measurements for distance, direction, and elevation. Special emphasis on the application of surveying skills relevant to the field of construction, including building, bridge, and sitework layout techniques and procedures, establishment of reference line and grade, topographic mapping, and earthwork computations. Lecture two hours. Laboratory 3 hours.

CM 10. The Construction Industry. 1 Unit
Term Typically Offered: Fall, Spring

Introduction to the Construction Management program and the many facets of the construction industry and to the various career opportunities. The unique products of construction, the organizations involved, and the people that make it happen. Guest speakers. Lecture one hour.
Credit/No Credit

CM 15. Fundamentals of Construction Management. 3 Units
Prerequisite(s): CM 10. CM 10 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to the Construction Management program and industry. Critical reading, thinking and writing for the construction profession. Introduction to visualization and graphic communication using both manual and computer assisted techniques. Introduction to quantitative software commonly used in the construction industry.

CM 20. Construction Materials and Processes. 3 Units
Prerequisite(s): CM 10, ENGL 1A; CM 10 may be taken concurrently.
Term Typically Offered: Spring only

Introduction to construction materials; to their properties in-place in completed projects, and to their characteristics that affect construction processes. The organizations, methods, equipment and safety considerations that are common to projects of all types and to all segments of the industry. Field trips. Lecture two hours; laboratory three hours.
Field trip(s) may be required.

CM 21. Construction Graphics. 3 Units
Prerequisite(s): ENGL 1A and CM 10; CM 10 may be taken concurrently.
Term Typically Offered: Fall only

Instruction and exercises in graphic techniques and procedures applicable to construction. Analysis of drawings in the civil, architectural, structural, mechanical, and electrical fields and how drawings affect construction planning. Freehand sketching. Isometric and oblique projections. Material quantity surveying. Lecture two hours; laboratory three hours.

CM 22. Construction Documents. 3 Units
Prerequisite(s): ENGL 1A, CM 20, and CM 21; CM 20 may be taken concurrently.
Term Typically Offered: Spring only

Analyzes construction contract documents. Technical and legal interpretations and implications to managers of the construction process. Quantity surveying. Lecture two hours; laboratory three hours.

CM 30. Engineering Mechanics--Statics. 3 Units
Prerequisite(s): MATH 26A or MATH 30; and PSYC 5A or PSYC 11A.
Term Typically Offered: Spring only

Introduction to the solution of engineering design problems. Concepts of units, vectors, equilibrium, forces, force systems, shear and moment diagrams. Lecture three hours.

CM 40. Properties of Construction Materials. 3 Units
Prerequisite(s): PHYS 5A.
Term Typically Offered: Fall only

Study of the engineering performance characteristics of materials. Covers testing concepts and procedures. Includes basic properties of metals, aggregates, cements, concrete, timber, asphalt, masonry and plastics with emphasis on construction applications. Lecture two hours; laboratory three hours.

CM 110. Legal Aspects of Construction. 3 Units
Prerequisite(s): Senior class standing, MGMT 101, CM 22.
Corequisite(s): CM 126
Term Typically Offered: Fall only

Application of advanced legal concepts to the construction process. Analyzes problems relating to contract formation, administration, and interpretation. Includes bidding and contract enforcement; litigation of disputes vs. arbitration; liability for negligence, warranty, and strict liability; safety; license law requirements; mechanics' liens and stop notices; bond rights and obligations. Lecture three hours.

CM 111. Construction Labor Relations. 3 Units
Term Typically Offered: Spring only

Study of federal and state labor law; labor unions, and their importance in the construction industry; and an analysis of the growth of open-shop construction. Employment law. Lecture three hours.

CM 120. Construction Operations and Methods Analysis. 3 Units
Prerequisite(s): CM 22.
Corequisite(s): CM 121.
Term Typically Offered: Fall only

Introduction to the analysis and management of construction projects in terms of the work that must be performed in the construction process. Analyzes operations and methods using concepts and techniques, including video, that are applicable to all types of projects in all segments of the industry, variables affecting productivity. Safety as an integral part of project and operations management. Field trips. Lecture two hours; laboratory three hours.
Field trip(s) may be required.

CM 121. Fundamentals of Construction Estimating. 3 Units
Prerequisite(s): CM 22.
Corequisite(s): CM 120.
Term Typically Offered: Fall only

Study of the basic approaches to estimating the cost of construction projects from a managerial viewpoint. Types of estimates and methods; elements of cost, variables and costing concepts; analysis procedures for detailed estimates. Lecture two hours; laboratory three hours.

CM 124. Engineering Construction. 3 Units
Prerequisite(s): CM 125, CM 135.
Term Typically Offered: Fall only

Study of engineering construction projects with emphasis on equipment-paced operations including safety aspects. Engineering fundamentals and other factors that affect equipment selection and production. Amplification of recording and analysis techniques. Unit price contracts. Field trips. Lecture two hours; laboratory three hours.
Field trip(s) may be required.

CM 125. Advanced Estimating and Bidding. 3 Units
Prerequisite(s): CM 120, CM 121.
Term Typically Offered: Spring only

Study of the concepts and practices involved in the total estimating and bidding process in construction, from initial project selection to submission of final bids. Covers considerations in project selection, sub-bid analysis, contingency and risk analysis, pricing concepts, bidding models, and an introduction to computer applications. A complete project estimate and bid is prepared by each student. Lecture two hours; laboratory three hours.

CM 126. Construction Project Management. 3 Units
Prerequisite(s): CM 125, CM 127.
Corequisite(s): CM 110.
Term Typically Offered: Fall only

Introduction to the study of Project Management as it is used on the larger construction project. Students study how construction contractors manage cost, time, scope, and quality. The theory of Project Management is developed and compared to management of the on-going business enterprise. Matrix and functional organizations are examined within the context of the industrial, commercial and heavy contract construction industries using the principles of the management process. Lecture three hours.

CM 127. Planning, Scheduling and Control. 3 Units
Prerequisite(s): CM 121.
Term Typically Offered: Spring only

Study of the concepts used in planning and controlling construction projects. Arrow, PERT, precedence, and linear scheduling methods; resource leveling; time-cost analysis; bar charts; and time-scaled diagrams. Manual procedures followed by computer applications. Lecture three hours.

CM 129. Senior Project. 3 Units
Prerequisite(s): CM 110, CM 111, CM 124, CM 126, HROB 101.
Term Typically Offered: Spring only

Consideration of technical, legal, business and human factors (including safety) in applying the functional approach to the management of construction organizations, projects, and operations. The individual construction professional in a competitive industry: personal and professional development, ethics, stress, physical and mental health. The industry and the construction professional in relation to the social and physical environments. Lecture three hours.

CM 130. Structures I -- Design Principles and Structural Steel Design. 3 Units
Prerequisite(s): CM 30, CM 40; CM 40 may be taken concurrently.
Term Typically Offered: Fall only

Introduction to structural design. Consideration of load conditions, stresses, strain, beam deflection and column action. Basic design of structural steel members with emphasis on systems used in practical situations. Beams, trusses, and columns are designed using the Uniform Building Code as a reference and the results are shown on detailed drawings and sketches. Lecture three hours.

CM 135. Soils and Foundations. 3 Units
Prerequisite(s): CM 130.
Term Typically Offered: Spring only

Study of the properties and behaviors of soils used as materials in construction. Index and physical properties of soils including compaction; permeability, compressibility, and shear strength. Methods of laboratory and field tests. Principles of foundation design, pavements, embankments and temporary soil support systems for trenches and cuts. Lecture two hours; laboratory three hours.

CM 136. Principles of Mechanical and Electrical Engineering. 3 Units
Prerequisite(s): PHYS 5B, CM 30.
Term Typically Offered: Fall only

Basic principles of thermodynamics with application to heating, ventilating and air conditioning systems. Introduction to electrical circuits and circuit analysis with construction applications. Lecture three hours.

CM 140. Structures II -- Timber and Formwork Design. 3 Units
Prerequisite(s): CM 130.
Term Typically Offered: Spring only

Basic design of structural timber members with emphasis on systems used in practical situations. Beams, trusses, and columns are designed using the Uniform Building Code as a reference and the results are shown on detailed drawings and sketches. Application of engineering principles to satisfy construction requirements that are not designed or shown in typical construction documents. Includes analysis and design of concrete form systems, shoring, and falsework, and construction dewatering. Lecture three hours.

CM 150. Structures III -- Reinforced Concrete and Reinforced Masonry. 3 Units
Prerequisite(s): CM 130.
Term Typically Offered: Fall only

Basic design concepts of reinforced concrete and reinforced masonry design. Topics and examples include design of beams, slabs, columns and walls. Students are required to demonstrate drafting ability. Assignments include design and drawings of various structural systems. Lecture three hours.

CM 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students competent to carry on individual work. Admission to this course requires approval of an instructor and the program coordinator.

Credit/No Credit

BS in Construction Management

Units required for Major: 105 (includes units required for Minor in Business Administration)
Total units required for BS: 134

Program Description

The Sacramento State University Construction Management degree prepares students for managerial positions with contractors and other organizations involved in the construction process. For a graduate, this preparation can combine with experience and lead to recognition as a construction professional, a Constructor. The construction professional is responsible for the execution of construction work, for the creation of completed projects from plans prepared by design professionals such as architects and engineers. What is to be built is defined by design professionals; how the work is to be accomplished is the concern of the Constructor. A Constructor determines the methods to be used and directs the economical application of resources in the construction of timely and safe projects at satisfactory prices, and to the required standards of quality.

The immediate objective of the program is to provide university-level preparation for managerial positions in construction and a foundation for continued learning. The curriculum emphasizes subject areas that are significant to the Constructor: engineering fundamentals, construction management, business administration, humanities and social sciences, and the development of analytical and communication skills.

Note: Students graduating with a BS in Construction Management will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Note: Students graduating with a BS in Construction Management consecutively earn a Minor in Business Administration.

Program Requirements

Code	Title	Units
Required Lower Division Courses (51 Units)		
ACCY 1	Accounting Fundamentals	3
ACCY 2	Managerial Accounting [1]	3
CM 9	Construction Surveying and Layout	3
CM 10	The Construction Industry	1
CM 15	Fundamentals of Construction Management	3
CM 20	Construction Materials and Processes	3
CM 21	Construction Graphics	3
CM 22	Construction Documents	3
CM 30	Engineering Mechanics--Statics	3
CM 40	Properties of Construction Materials	3
ECON 1A	Introduction to Macroeconomic Analysis [1]	3
or ECON 1B	Introduction to Microeconomic Analysis	
ENVS 10	Introduction to Environmental Science [1]	3
MATH 26A	Calculus I for the Social and Life Sciences [1]	3
MGMT 10	Introduction to Business Law	3
PHYS 5A	General Physics: Mechanics, Heat, Sound [1]	4
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics [1]	4
STAT 1	Introduction to Statistics [1]	3
Computer Literacy and Competency (3 Units) [2]		
MIS 1	Word Processing	1
MIS 2	Spreadsheets	1
MIS 3	Presentation Graphics	1
Required Upper Division Courses (45 Units) [3]		
CM 110	Legal Aspects of Construction	3
CM 111	Construction Labor Relations	3
CM 120	Construction Operations and Methods Analysis	3
CM 121	Fundamentals of Construction Estimating	3
CM 124	Engineering Construction	3

CM 125	Advanced Estimating and Bidding	3
CM 126	Construction Project Management	3
CM 127	Planning, Scheduling and Control	3
CM 129	Senior Project	3
CM 130	Structures I -- Design Principles and Structural Steel Design	3
CM 135	Soils and Foundations	3
CM 136	Principles of Mechanical and Electrical Engineering	3
CM 140	Structures II -- Timber and Formwork Design	3
HROB 101	The Management of Contemporary Organizations	3
MGMT 117	Business, Ethics and Society [1]	3
Electives (6 Units)		
Select any 100 level BA course		3
Select one of the following:		3
FIN 101	Business Finance	
MKTG 101	Principles Of Marketing	
OPM 101	Operations Management	
Total Units		105

[1] Course also satisfies General Education (GE)/Graduation Requirement. For the degree, students must satisfy all the University's General Education requirements for Construction Management. Students should contact the program office for a complete list of these requirements. A second year foreign language course (2A or equivalent) may also satisfy 3 units of GE when the course is being taken to comply with the Sacramento State foreign language requirement. Students should consult with an advisor for exact GE eligibility of these courses.

[2] All majors and pre-majors shall demonstrate computer literacy and competency prior to taking 100-level construction management or business courses. This requirement is met by passing scores on examinations as administered by the College of Business Administration in each of the following areas:
- Basic understanding and manipulation skills for operating system, Email system, and browser (covered in MIS 1);
- Basic facility with spreadsheets using the College of Business Administration's standard spreadsheet package (covered in MIS 2);
- Word processing and presentation graphics (covered in MIS 3).

[3] Upper division Construction Management courses are open only to students who have satisfactorily completed all required lower division preparation and have been admitted to the major.

Notes:

- High school chemistry (one year), mechanical drawing (one year), and trigonometry (one-half year) also required. Students without this high school preparation must take the necessary courses in addition to those listed above.
- The recommended course sequence may change. Students should consult the Construction Management program for current information.

Business Administration lower and upper division courses apply both to the major and to a Business Administration minor. Students interested in pursuing a pre-MBA sequence should contact the Degree Program Center in the College of Business Administration.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5 [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area Course C		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		33

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Construction Management are exempt from the Foreign Language Graduation Requirement.

Electrical and Electronic Engineering

College of Engineering and Computer Science

Program Description

Electrical Engineers design systems that generate, transmit and distribute electricity. Electronic engineers design electronic devices which perform computation, communication, or control of robots and machines. Electrical and electronic engineers work with technologies ranging from large power lines and generators to tiny integrated circuits containing billions of transistors.

The Department of Electrical and Electronic Engineering offers a Bachelor of Science (BS) in Electrical and Electronic Engineering. The Department also offers a Master of Science degree in Electrical and Electronic Engineering, with the following focus areas: control systems, power systems, communication systems, microelectronic design, and computer architecture & digital design.

Students receive a thorough grounding in mathematics and the basic sciences during their first four semesters. Engineering design and applications are stressed in the final four semesters. Prospective students are urged to discuss their plans as early as possible with their high school or community college counselor and with the Electrical and Electronic Engineering Department Chair who will advise students individually.

Degree Programs

BS in Electrical and Electronic Engineering (p. 607)

MS in Electrical and Electronic Engineering (p. 609)

Certificate in Mixed-Signal Integrated Circuit Design (p. 609)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Electrical and Electronic Engineering is also individually accredited by ABET, Inc.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

- The BS degree in Electrical and Electronic Engineering is accredited by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org (http://www.abet.org/)
- The major strengths of the Electrical and Electronic Engineering program lie in its faculty, whose industrial experience equips them to relate theory to practice and prepare students for the profession or for graduate study.
- The Department has outstanding laboratory facilities to provide hands-on instruction.
- A Committee of power industry leaders from throughout the State is a source of advice and assistance to the Department regarding the preparation of students for careers in power engineering.
- The EEE Department Industry Liaison Council (ILC) consists of industry professionals representing various disciplines within electrical and electronic engineering. The ILC provides feedback on program direction and our outcomes assessment efforts. The ILC is active in providing professional development opportunities for our faculty.
- The Department has a strong IEEE Student Branch. It is among the most active student chapters in the Sacramento Section of IEEE. The student branch has an elected core of officers, who plan and execute the programs of the chapter in consultation with the branch faculty advisor. The primary purpose of the student branch is to develop professional awareness among the students and provide them with opportunities to expand their leadership and communication skills.

Program Educational Objectives

The Electrical and Electronic Engineering Program has developed a set of Program Educational Objectives. These statements describe what the faculty is preparing the students to achieve within a few years after graduation:

- Core Knowledge: Our graduates will have active careers in Electrical and Electronic engineering, or be actively engaged in a related career path.
- Application of Knowledge: Our graduates will apply their knowledge and skills to solve practical engineering problems.
- Professionalism: Our graduates will demonstrate the professional skills, such as high ethical standards, effective oral and written communications, and teamwork, necessary to be productive engineers and to advance in their careers.
- Life-long Learning: Our graduates will continue to develop their skills and seek knowledge after graduation in order to adapt to advancing technology and the needs of society. This may be indicated by the graduate's pursuit of an advanced degree or other formal instruction, and/or that the graduate has developed a professional specialty.

Contact Information

Thomas Matthews, Department Chair
Riverside Hall 3018
(916) 278-6873
Department of Eletrical & Electronic Engineering (http://www.ecs.csus.edu/eee/)

Faculty

BAYARD, JEAN-PIERRE

BELKHOUCHE, FETHI

ELTAYEB, MOHAMMED

HEEDLEY, PERRY

KUMAR, PREETHAM

MARKOVIC, MILICA

MATTHEWS, THOMAS W.

MEDURI, PRAVEEN

PANG, JING

SMITH, WARREN D.

TOUPS, TRACY

VADHVA, SURESH K.

YAZDANI, ATOUSA

ZARGHAMI, MAHYAR

EEE 64. Introduction to Logic Design. 4 Units
Prerequisite(s): CSC 15 or CSC 25 or ENGR 50
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Covers the following topics: logic gates, binary number system, conversion between number systems, Boolean algebra, Karnaugh maps, combinational logic, digital logic design, flip-flops, programmable logic devices (PLDs), counters, registers, memories, state machines, designing combinational logic and state machines into PLDs, and basic computer architecture. Lab emphasizes the use of software equation entry design tools, the use of a schematic entry, and the use of a logic simulation design tool. Lab assignments are design-oriented.
Cross Listed: CPE 64; only one may be counted for credit.

EEE 64W. Introduction to Logic Design Workshop. 1 Unit
Corequisite(s): EEE 64.
Term Typically Offered: Fall, Spring

Assists students in developing a more thorough understanding of logic simulation and logic design. Focus is on problem solving and design. Activity two hours. Lecture three hours; laboratory three hours.
Cross Listed: CPE 64W; only one may be counted for credit.

Credit/No Credit

EEE 108. Electronics I. 3 Units
Prerequisite(s): EEE 117.
Corequisite(s): EEE 108L.
Term Typically Offered: Fall, Spring

Introduction to electronics, ideal OP-AMPS, BJTs, FETs, DC biasing, VI characteristics, single stage amplifiers, low frequency small signal models, power supplies and voltage regulation. PSPICE required.

EEE 108L. Electronics I Laboratory. 1 Unit
Prerequisite(s): EEE 117, EEE 117L.
Corequisite(s): EEE 108.
Term Typically Offered: Fall, Spring

Characteristics and applications of OP-AMPS, rectifiers, BJTs and FETs. Introduction to GPIB, PSPICE and LabVIEW. Laboratory three hours.

EEE 109. Electronics II. 4 Units
Prerequisite(s): EEE 108, EEE 108L, EEE 117, EEE 117L; and)GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Differential and multistage amplifiers, high frequency models (BJTs and FETs), feedback and sensitivity, power amplifiers, oscillators and waveform shaping circuits. Advanced use of PSPICE. Lecture three hours; laboratory three hours.

EEE 110. Advanced Analog Integrated Circuits. 3 Units
Prerequisite(s): EEE 109 or consent of instructor.
Term Typically Offered: Fall only

The use of operational amplifiers in circuit designs for applications such as filtering, switched capacitor design, sample and hold design, instrumentation amplifiers, and voltage reference circuitry will be explored, as well as topics in Feedback Theory.

EEE 111. Advanced Analog Integrated Circuits Laboratory. 1 Unit
Prerequisite(s): EEE 109; either EEE 110 or EEE 230. EEE 110 or EEE 230 may be taken concurrently.
Term Typically Offered: Fall only

Circuit design, mask design, and simulation of integrated circuitry. Use of CAD software to prepare design for fabrication. Individual and group design projects. Laboratory three hours.

EEE 117. Network Analysis. 3 Units
Prerequisite(s): ENGR 17, MATH 45, and PHYS 11C
Corequisite(s): EEE 117L.
Term Typically Offered: Fall, Spring

Review of sinusoidal steady state, phasors, complex power, three phase power, mutual inductance, series and parallel resonance. Introduction to application of Laplace transforms in network analysis, transfer functions, Bode plots, Fourier series, two-port circuits.

EEE 117L. Networks Analysis Laboratory. 1 Unit
Corequisite(s): EEE 117.
Term Typically Offered: Fall, Spring

Introduces fundamental laboratory techniques while demonstrating the concepts introduced in the EEE 117 lecture. The computer simulation language PSPICE is introduced and applied. Laboratory three hours.

EEE 120. Electronic Instrumentation. 4 Units
Prerequisite(s): EEE 108, EEE 117; EEE 108 may be taken concurrently.
Term Typically Offered: Fall, Spring

Fundamental principles of sensors and instrumentation systems, together with their electrical implementation, such as biasing and signal conditioning circuits. Temperature, force, pressure, and mechanical sensors. Optical sensors, including a brief introduction to light sources and detectors. Applications to biomedical engineering and industrial control. Lecture three hours; laboratory three hours.

EEE 122. Applied Digital Signal Processing. 3 Units
Prerequisite(s): EEE 117, EEE 180.
Term Typically Offered: Fall only

Application of digital signal processing to biomedical signals. Origin and characteristics of biomedical signals and contaminations. Preparation of biomedical signals for processing, including sensors, amplification, filtering, sampling, and quantization. Time-domain processing, including peak and zero-crossing detection, time interval measurement, peak height, and moving average estimates of mean and root mean square value. Frequency domain processing, including filtering to separate biomedical signal components and spectrum estimation. Joint time-frequency analysis.

EEE 130. Electromechanical Conversion. 3 Units
Prerequisite(s): EEE 117 and EEE 161
Term Typically Offered: Fall, Spring

Magnetic circuits and principles of electromechanical energy conversion, transformers, DC machines, asynchronous AC machines, synchronous AC machines, introduction to special machines.

EEE 131. Electromechanics Laboratory. 1 Unit
Prerequisite(s): EEE 117, EEE 130 (EEE 130 may be taken concurrently), and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Direct current motor and generator characteristics, three phase synchronous motor and synchronous generator characteristics, single phase power transformer short circuit and no-load tests, frequency changer tests and tests on DC and AC machine models, potential and current transformers.

EEE 135. Renewable Electrical Energy Sources and Grid Integration. 3 Units
Prerequisite(s): EEE 130.
Term Typically Offered: Spring only

The study of existing sources of renewable electric energy such as wind, solar, geothermal, hydro, tidal, wave power, and biomass. Emphasis on wind and solar energy sources and their integration into the electric power grid. Various energy storage methods to accommodate the intermittent nature of these resources. Economic constraints, environmental benefits and institutional regulations.

EEE 136. Smart Electric Power Grid. 3 Units
Corequisite(s): EEE 142 or EEE 144.
Term Typically Offered: Spring only

Smart grid to enhance reliability, security, robustness and efficiency of transmission and distribution systems. Integration of renewable energy sources and distributed generation. Energy storage systems. Advanced metering infrastructure, home-area networks, micro-grids, real-time pricing, plug-in hybrid vehicles, demand response, load curve sharing. Control, monitoring and protection grid; SCADA systems. Voltage and load frequency control to ensure balance. Enabling active participation of consumer. Anticipating and responding to system disturbance in self healing manner. Providing power quality for digital systems needs.

EEE 137. Applications of Power Electronics in Power Systems. 3 Units
Prerequisite(s): EEE 130 and EEE 141
Term Typically Offered: Spring only

Analysis methods for power electronics. Power electronic devices and their control methodologies. Electric machinery drives and flexible alternating current transmission systems (FACTS) devices simulation of cases relevant to applications of power electronics in power systems.

EEE 141. Power System Analysis I. 3 Units
Prerequisite(s): EEE 117 and EEE 161
Term Typically Offered: Fall, Spring

Characteristics of power system components. Transmission line parameters and the steady state performance of transmission lines. Introduction to solutions of linear and nonlinear algebraic equations using Gauss, Gauss-Seidel, and Newton-Raphson techniques. Introduction to power flow analysis.

EEE 142. Power System Analysis II. 3 Units
Prerequisite(s): EEE 130, EEE 141, and EEE 184 (EEE 184 may be taken concurrently).
Term Typically Offered: Fall, Spring

Review of the fundamentals in electric energy systems; power flow analysis, disturbance of normal operating conditions, symmetrical components and sequence impedances, analysis of balanced and unbalanced faults; a brief review of protection systems; optimum allocation and dispatching of generators; dynamic system control; introduction to stability studies. Students in the course will use MATLAB to solve problems.

EEE 143. Power System Laboratory. 1 Unit
Prerequisite(s): EEE 130, EEE 141 and (WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Simulation of three phase operations and transmission line operation including voltage regulation, efficiency of long lines, power system stability, voltage control and load-frequency control, load flow and optimal dispatch for simplified interconnected systems.

EEE 144. Electric Power Distribution. 3 Units
Prerequisite(s): EEE 130.
Term Typically Offered: Fall only

Operation and design of utility and industrial distribution systems including distribution system planning; load characteristics; application of distribution transformers; design of subtransmission lines, distribution substations, primary systems, secondary systems; application of capacitors; voltage regulation and reliability.

EEE 145. Power System Relay Protection and Laboratory. 4 Units
Prerequisite(s): EEE 141
Term Typically Offered: Fall only

Principles of protective relaying (classical and modern), current and voltage transformers, setting and testing or relaying elements, including differential, impedance, over/under current, voltage, and frequency relay types and/or elements, and their applications in protection of power system elements, including lines, generators, transformers, motors, and buses. Lecture 3 hours; laboratory 3 hours.

EEE 146. Power Electronics Controlled Drives. 3 Units
Prerequisite(s): EEE 108, EEE 130.
Term Typically Offered: Fall, Spring

Review thyristors, controlled rectifiers, DC choppers and inverters and pulse width modulation methods including space vector method. Control of DC drives and methods of control of induction synchronious motors including flux-vector methods and computer simulations will be studied.

EEE 147. Power System Operation and Control Laboratory. 1 Unit
Prerequisite(s): EEE 141.
Term Typically Offered: Fall, Spring

Computer simulation methods to describe power system behavior under steady state and dynamic conditions. Experiments conducted using MATLAB and Simulink for load flow in distribution lines, optimal power dispatch, synchronous machine transient behavior under short circuit conditions, transient stability, voltage and reactive power control, classical and modern load frequency control. Laboratory three hours.

EEE 148. Power Electronics Laboratory. 1 Unit
Prerequisite(s): EEE 146; may be taken concurrently.
Term Typically Offered: Fall, Spring

Solid state applications in power control. Diodes, rectifiers (single state and three phase), thrustors. Principle of phase controlled rectification, single phase and three phase converters. Power factor improvement. Three phase Pulse Width Modulation (PWM). AC voltage controllers. SPICE modeling. Strong design emphasis. EMTP modeling. LabView graphics simulation. Microprocessor control of power electronics systems. UPS systems, power supplies, power quality monitoring.

EEE 161. Applied Electromagnetics. 4 Units
Prerequisite(s): MATH 32, MATH 45, PHYS 11C, ENGR 17, and CSC 25.
Term Typically Offered: Fall, Spring

Review of vector calculus. Electrostatic fields from lines, surface and volume charges by Coulomb's law, Gauss' law, Laplace's and Poisson's equations. Capacitance. Magnetostatic field calculations using Biot-Savart's law and Ampere's law. Inductance. Forces on moving charges. Magnetic materials. Electric and magnetic energy in fields. Faraday's law. Ideal transformer. Moving conductor in time-varying magnetic field. Displacement current. Charge-current continuity relation. Transmission line analysis, characteristic impedance, reflection coefficient and standing wave concepts. Introduction to Smith Chart solutions to matching problems.

EEE 162. Applied Wave Propagation. 3 Units
Prerequisite(s): EEE 117, EEE 161.
Term Typically Offered: Fall, Spring

Review of distributed circuit theory and the Smith chart. Impedance matching using series or shunt lumped and distributed circuits or near-quarterwave-matching sections. Noise temperature and noise figure. Scattering coefficient characterization of two-ports. Stability circles for high frequency transistors. Constant gain and noise figure circles. Basic antenna theory. Illustrated by their use for cell phones and other wireless systems.

EEE 163. Traveling Waves Laboratory. 1 Unit
Prerequisite(s): EEE 117, EEE 162 (EEE 162 may be taken concurrently), and (WPJ score of 70+, or at least a C- in ENGL 109M/W)
Term Typically Offered: Fall, Spring

Selected experiments in the transmission and reflection of waves in coaxial lines and waveguides. Antenna impedance and pattern measurements. Laboratory three hours.

EEE 165. Introduction To Optical Engineering. 3 Units
Prerequisite(s): EEE 161, EEE 180, EEE 185; EEE 185 may be taken concurrently.
Term Typically Offered: Fall, Spring

Generation, propagation and detection of light. Fresnel equations, Snells law, diffraction, polarization and interference. Operating principles of LEDs, lasers, photodiodes and optical fibers. Introduction to optical communications systems, integrated optical devices, and optical instrumentation.

EEE 166. Physical Electronics. 3 Units
Prerequisite(s): EEE 108 and CHEM 1E or CHEM 1A
Term Typically Offered: Spring only

Semiconductor physics, atomic models and crystal structures. Quantum theory, energy bands, motion of charge carriers, minority/majority carrier profiles and pn junctions. Manufacturing processes for and operating characteristics of diodes, bipolar transistors and field effect devices.

EEE 167. Electro-Optical Engineering Lab. 1 Unit
Prerequisite(s): EEE 161, EEE 180, EEE 165; EEE 165 may be taken concurrently, and (WPJ score of 70+, or at least a C- in ENGL 109 M/W)
Term Typically Offered: Fall, Spring

Provides senior level undergraduates with hands-on experience in optical engineering and design. Experiments involving laser characteristics, spectral radiometry, diffraction, polarization, modulation of light, holography and spatial filtering will be performed. Laboratory three hours.

EEE 174. Introduction to Microprocessors. 4 Units
Prerequisite(s): Junior status, EEE 64.
Term Typically Offered: Fall, Spring, Summer

Topics include: microcomputer systems, microprocessor architecture, machine and assembly language programming, timing operations, bus arbitration and exception processing logic, addressing modes, parallel and serial ports, memory, assemblers and development systems. The lab uses development systems and target systems in the Computer Engineering laboratory to assemble, link, test and debug and run various assignments. Lecture three hours; laboratory three hours.

EEE 178. Introduction to Machine Vision. 3 Units
Prerequisite(s): EEE 180 or ME 172, or instructor approval.
Term Typically Offered: Spring only

Fundamental digital image processing and machine vision concepts and their application to the fields of robotics and automation. Topics include: digital image processing, image formation, two dimensional transforms, boundary descriptors, motion, camera calibration, vision for robot control, 3-D vision, and hardware architectures to support vision.

EEE 180. Signals & Systems. 3 Units
Prerequisite(s): ENGR 17, MATH 45, EEE 117; EEE 117 may be taken concurrently.
Term Typically Offered: Fall, Spring

Rigorous development of the fundamental relationships governing time-domain and frequency-domain analysis of linear continuous-time and discrete-time systems. Topics include Fourier, Laplace and z-transforms, sampling theorem, modulation, system stability, and digital filters.

EEE 181. Introduction to Digital Signal Processing. 3 Units
Prerequisite(s): EEE 64, EEE 180.
Term Typically Offered: Spring only

Focuses on the application of linear systems theory to design and analysis of digital signal processing systems. Discrete systems, the z transform, and discrete Fourier transform are reviewed. Design of infinite impulse response filters, finite impulse response filters, and digital spectral analysis systems is presented. Computer simulation is used to study the performance of filters and spectral analysis systems. Signal processing architectures are introduced.

EEE 182. Digital Signal Processing Lab. 1 Unit
Prerequisite(s): EEE 180, EEE 181; EEE 181 may be taken concurrently.
Term Typically Offered: Spring only

Provides senior level undergraduate students with experience in the software/hardware design of discrete-time systems, and modern DSP techniques. Laboratory projects will include the following: spectral analysis of analog and digital signals, design of sampling and quantizer circuits, design and realization of IIR and FIR Digital Filters. Hardware projects will include acquisition, analysis, and filtering of speech, biomedical and video signals using Digital Signal Processors (DSPs).

EEE 183. Digital and Wireless Communication System Design. 3 Units
Prerequisite(s): EEE 161, EEE 180; EEE 185 may be taken concurrently.
Term Typically Offered: Fall only

Review of fundamentals, probability, information, distortion by channel, sampling, pulse code modulation, companding, link power calculation, noise figure, pseudo noise. Matched filter detection of binary signals, bit error rate, inter-symbol interference, zero-forcing equalizers. Effects of additive white Gaussian noise in pulse code modulation, spread spectrum in multiple access, cellular radio and other wireless applications. Procedure for making design trade offs will be discussed.

EEE 184. Introduction to Feedback Systems. 3 Units
Prerequisite(s): EEE 180.
Term Typically Offered: Fall, Spring

Dynamic system modeling by transfer function and state-space methods using differential equation, time-response and frequency-response methods. Determination of steady-state errors due to step, ramp and parabolic inputs and disturbances for closed-loop systems. Mapping of block diagrams and state-space representations to signal flow graphs (SFG) as well as finding the transfer function of the system represented by the SFG by Mason's Rule. Closed-loop system stability is examined via poles and eigenvalues and by using the Routh-Hurwitz criterion. Introduction to observability and controllability of systems. Design of compensators for feedback systems using root-locus, frequency response and state-space methods. Introduction to digital control. Computer simulation methods such as MATLAB and SIMULINK are used to support the above subjects.

EEE 185. Modern Communication Systems. 3 Units
Prerequisite(s): EEE 180, ENGR 120; ENGR 120 may be taken concurrently.
Term Typically Offered: Fall, Spring

Review of signal and system analysis, sampling theorem and Nyquist's criteria for pulse shaping, signal distortion over a channel, study of digital and analog communication systems, line coding, signal to noise ratios, performance comparison of various communication systems.

EEE 186. Communication Systems Laboratory. 1 Unit
Prerequisite(s): EEE 117 (EEE 185 may be taken concurrently), and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Experimental study of modulation and demodulation in AM, FM, and digital communication systems, A/D and D/A conversion, measurement of power spectra, noise characterization in frequency domain.

EEE 187. Robotics. 4 Units
Prerequisite(s): EEE 180 or equivalent, or instructor permission.
Term Typically Offered: Fall only

Lecture introduces principles of robotics and design of robot systems. Includes robot architectures, sensing position/velocity, digital circuit noise, actuator and path control, robot coordinate systems, kinematics, differential motion, computer vision/architectures, and artificial intelligence. Laboratory will apply lecture theory in design experiments utilizing five degree-of-freedom robots, an industrial robot, and vision systems.

EEE 188. Digital Control System. 3 Units
Prerequisite(s): EEE 180, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Spring only

Intended to present treatment of the classical digital control with an introduction to modern digital control system in the state space. Z-transform as applied to discrete-time systems with transformation from the s-plane to the z-plane. Analyzes digital control systems using Nyquist and Bode plots and root-locus. Stability analysis of digital systems using Jury test, Routh Criterion, Nyquist and Bode plots. Design using root-locus and Bode plots introduced. Introduction to state-space and pole assignment. Finite-word length effects. MATLAB applications.

EEE 189. Controls Laboratory. 1 Unit
Prerequisite(s): EEE 184 (EEE 184 may be taken concurrently), and (WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Spring only

Study, simulation and design of linear feedback control systems using digital control methods such as MATLAB and SIMULINK. Practical examples of analysis and compensation for closed loop systems.

EEE 192A. Electrical Power Design Project I. 2 Units
Prerequisite(s): EEE 141, EEE 142, EEE 143; EEE 143 may be taken concurrently. WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Concentrates on the planning, research and design aspects of electric power systems, including generation, transmission and distribution systems. Emphasis is placed on design philosophies, problem definition, research, project planning, written and oral communication skills, teamwork, development of specifications and effective utilization of available resources. Lecture one hour; laboratory three hours.

EEE 192B. Electrical Power Design Project II. 2 Units
Prerequisite(s): EEE 142, EEE 143, and EEE192A.
Term Typically Offered: Fall, Spring

Continuation of EEE 192A. Students are expected to continue the power engineering design project begun the previous semester in EEE 192A. Final results of the project report will be presented orally to the class and invited faculty in a publicized seminar. Lecture one hour; laboratory three hours.

EEE 193A. Product Design Project I. 2 Units
Prerequisite(s): EEE 108, EEE 109, EEE 130, EEE 161, EEE 174, EEE 180 (EEE 109 may be taken concurrently), GE Area A and (WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Concentrates on the planning and design of electronic engineering devices, systems and software. Emphasis is placed on design philosophies, problem definition, project planning and budgeting, written and oral communication skills, teamwork, development of specifications, utilization of computer aided design systems, and effective utilization of available resources. Lecture one hour; laboratory three hours.

EEE 193B. Product Design Project II. 2 Units
Prerequisite(s): EEE 193A.
Term Typically Offered: Fall, Spring

Concentrates on design projects begun by the previous semester design teams in EEE 193A. The hardware will be completed, tested for the meeting of specifications and other requirements, and redesigned if necessary. Required software will be written, debugged and incorporated in a written report. The final results of the team project will be presented orally to the class and invited faculty in a publicized seminar. Lecture one hour; laboratory three hours.

EEE 194. Career Development in Electrical and Electronic Engineering. 1 Unit
Prerequisite(s): EEE 192A or EEE 193A, may be taken concurrently.
Term Typically Offered: Fall, Spring

Designed for Electrical and Electronic Engineering students making career decisions. Instruction will include effective career planning strategies and techniques including skill assessments, employment search strategy, goal setting, time management, interview techniques and resume writing. Lecture one hour.
Note: Units earned cannot be used to satisfy major requirements.

Credit/No Credit

EEE 195. Fieldwork in Electrical and Electronic Engineering. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience in Electrical and Electronic Engineering with public agencies or firms in the industry. Requires approval of a petition by the supervising faculty member and Department Chair.
Note: May be repeated for credit.

Credit/No Credit

EEE 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Note: Units earned cannot be used to satisfy major requirements.

Credit/No Credit

EEE 195B. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Note: Units earned cannot be used to satisfy major requirements.

Credit/No Credit

EEE 195C. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Note: Units earned cannot be used to satisfy major requirements.

Credit/No Credit

EEE 195D. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Note: Units earned cannot be used to satisfy major requirements.

Credit/No Credit

EEE 196A. PCB Design Fundamentals. 1 Unit
Prerequisite(s): EEE 102, CPE 102 or EEE 108.
Term Typically Offered: Fall, Spring

Printed circuit board (PCB) design fundamentals including library component creation, schematic capture, layout, routing, signal integrity and transmission line analysis, IEEE/IPC rules and standards, materials, manufacturing processes, and other physical properties of a PCB.

EEE 199. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear qualified for independent work. Approval of the faculty sponsor and the academic advisor must be obtained before registering. May be repeated for credit.

EEE 201. Research Methodology. 1 Unit
Prerequisite(s): Fully classified graduate status.
Term Typically Offered: Fall, Spring

Research methodology, problem formulation and problem solving. Collective and individual study of selected issues and problems relating to fields of study in the Electrical and Electronic Engineering Graduate Program. Orientation to the requirements for Masters Thesis or Project in Electrical Engineering.
Credit/No Credit

EEE 211. Microwave Engineering. 3 Units
Prerequisite(s): EEE 161; EEE 108 or instructor permission.
Term Typically Offered: Fall, Spring

High-frequency passive electronic circuit design, specifically S-parameters, impedance matching, microstrip lines, filters, couplers and antennas.

EEE 212. Modern Antenna Design. 3 Units
Prerequisite(s): EEE 161.
Term Typically Offered: Fall, Spring

Antenna analysis, design, simulation, manufacturing and measurements. Antenna properties. Classification of antennas. Microstrip patch and printed circuit antennas. Dipole antennas. Aperture antennas. Antenna arrays. Antenna measurements. Simulations using full-3D electromagnetic software.

EEE 213. Microwave Devices and Circuits. 3 Units
Prerequisite(s): EEE 162.
Term Typically Offered: Fall, Spring

Theory and application of electromagnetic radiation at microwave frequencies; study of microwave impedance and power measurement and characteristics of microwave circuit components, and electronic devices.

EEE 214. Computer Aided Design for Microwave Circuits. 3 Units
Prerequisite(s): EEE 211 or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to design methodology of the basic building blocks of communication systems. Use of solid state devices in communications and microwave technology. Implementation of transmitter and receiver architectures. Impedance matching, S-parameters and small-signal, large-signal device operation. Design of transmitter and receiver components using a professional software tool. Design and simulations of gain and low noise amplifiers, detectors, mixers, power amplifiers and oscillators. Tradeoffs involved in the design of a complete transmitter and a receiver.

EEE 215. Lasers. 3 Units
Prerequisite(s): EEE 180 and EEE 161 or instructor permission.
Term Typically Offered: Fall, Spring

Review of electromagnetic theory. Ray tracing in an optical system, Gaussian beam propagation. Resonant optical cavities, study of excitation and lasing mechanisms in gas and semiconductor lasers. General characteristics and design of CW, Q switched and traveling wave lasers.

EEE 221. Machine Vision. 3 Units
Term Typically Offered: Spring only

Introduces the student to fundamental digital imaging processing concepts and their application to the fields of robotics, automation, and signal processing. Topics include: digital image filters, two dimensional transforms, boundary descriptors, Hough transform, automated visual inspection techniques, vision for robot control, 3-D vision, and hardware architectures to support vision.

EEE 222. Electronic Neural Networks. 3 Units
Term Typically Offered: Spring only – even years

Current neural network architectures and electronic implementation of neural networks are presented. Basics of fuzzy logic is covered. Application software will be used to simulate training. Testing of various neural net architectures. Learning strategies such as back-propagation, Kohonen, Hopfield and Hamming algorithms will be explored. A final project requires the student to design, train and test a neural network for electronic implementation that solves a specific practical problem.

EEE 225. Advanced Robot Control. 3 Units
Prerequisite(s): EEE 184 or equivalent.
Term Typically Offered: Fall only

Introduction to robot kinematics and dynamics followed by a comprehensive treatment of robot control. Topics include: independent joint control, multivariable control, force control, feedback linearization, real-time parameter estimation, and model-reference adaptive control.

EEE 230. Analog and Mixed Signal Integrated Circuit Design. 3 Units
Prerequisite(s): EEE 109 or instructor permission.
Term Typically Offered: Fall, Spring

Covers core topics and circuits important for analog and mixed-signal integrated circuits. Topics include: device structures and models, single-stage and differential amplifiers, current mirrors and active loads, operational amplifier design, stability and compensation, fully-differential circuits and common-mode feedback, noise in integrated circuits and the impact of IC processes on analog performance.

EEE 231. Advanced Analog and Mixed Signal Integrated Circuit Design. 3 Units
Prerequisite(s): EEE 230 or consent of the instructor.
Term Typically Offered: Fall only

A companion course to EEE 230, covers additional topics important in analog and mixed-signal integrated circuit design. Topics include traditional issues such as device matching and analog layout techniques, as well as important building blocks such as bandgap references and bias circuits. Also included are current-mode techniques such as high-speed current-mode logic (CML), and an introduction to noise in integrated circuits. Circuit and layout projects are assigned using CAD software.

EEE 232. Key Mixed-Signal Integrated Circuit Building Blocks. 3 Units
Prerequisite(s): EEE 230 or consent of instructor.
Term Typically Offered: Spring only

Covers key mixed-signal integrated circuit building blocks most often used in modern ICs. Topics covered include data converter fundamentals, comparators, and important circuit architectures for Analog-to-Digital Converters (ADCs), Digital-to-Analog Converters (DACs), and Phase-Locked Loops (PLLs).

EEE 234. Digital Integrated Circuit Design. 3 Units
Prerequisite(s): EEE 230 or instructor permission.
Term Typically Offered: Fall, Spring

The background and techniques needed to design and layout digital circuits at the transistor level for mixed-signal integrated circuits are covered. Topics include the design, layout and characterization of digital logic gates at the transistor level, typical CMOS process flows, device models and physics, and chip level considerations.

EEE 235. Mixed-Signal IC Design Laboratory. 1 Unit
Prerequisite(s): EEE 230 or consent of the instructor.
Term Typically Offered: Fall only

Methods to develop successful mixed-signal integrated circuits using an industrial design methodology and computer-aided design tools. Proven design techniques presented; hands-on experience gained through each student designing their own integrated circuit. Communications skills developed through periodic presentations, including reviews for the circuit architecture, design and layout.

EEE 236. Advanced Semiconductor Devices. 3 Units
Term Typically Offered: Spring only

Semiconductor device modeling, including the application of the continuity equation and Poissons equation to abrupt and graded p/n junctions, semiconductor/metal contacts, junction field effect transistors (JFET), metal-oxide-semiconductor transistors (MOSFET), and bipolar junction transistors (BJT). Special topics include compound semiconductor devices and heterostructures.

EEE 238. Advanced VLSI Design-For-Test I. 3 Units
Prerequisite(s): CPE 151 and CPE 166.
Term Typically Offered: Fall only

Focus on integrated circuit design-for-test-techniques; semiconductor reliablity factors and screening; semiconductor fabrication processes, device physics and related performance limitations; quantifying cost/quality tradeoffs; IC manufacturing flows and high-accuracy parametric test methods.

EEE 239. Advanced VLSI Design-For-Test II. 3 Units
Prerequisite(s): EEE 238.
Term Typically Offered: Fall, Spring

Advanced topics in VLSI testing and Design-For-Test applications. Memory-specific test methodology and special features of memory designs employed in high volume manufacturing for improved testability, yield, and reliability. VLSI failure modes, their detection and prevention. Application of trim, redundancy, wear-leveling, and error correction.

EEE 241. Linear Systems Analysis. 3 Units
Prerequisite(s): EEE 180 or equivalent.
Term Typically Offered: Spring only – odd years

Analyzes linear systems in the state-space. System realization and modeling, solutions of linear systems, stability including the method of Lyapunov, controllability and observability, state feedback and observers for both continuous and discrete-time systems. Familiarity with MATLAB is required.

EEE 242. Statistical Signal Processing. 3 Units
Prerequisite(s): ENGR 120, EEE 180
Term Typically Offered: Fall, Spring

Introduces the student to modern statistical approaches for solving electronic system noise problems. A few of the topics covered are: Stochastic processes, Wiener and Kalman filters, linear prediction, lattice predictors and singular-value decomposition.
Note: The knowledge of ENGR 120 and EEE 180 or equivalent courses is recommended to take this course.

EEE 243. Applied Stochastic Processes. 3 Units
Prerequisite(s): ENGR 120.
Term Typically Offered: Fall, Spring

Introduction to sequence of random variables and multivariable distributions; models of stochastic processes; stationary stochastic processes and their applications; Markov processes, Markov chains, continuous Markov chains; renewal processes; birth-death processes; time-series applications in stochastic processes in filtering, reliability and forecasting, prediction and control.

EEE 244. Electrical Engineering Computational Methods and Applications. 3 Units
Prerequisite(s): EEE 180.
Term Typically Offered: Fall, Spring

Computational methods for solving problems in engineering analysis. Topics include variational methods, finite-difference analysis, optimization methods, and matrix methods. Focuses predominantly on applications of the methods, and students are required to solve real-world, engineering problems on the computer.

EEE 245. Advanced Digital Signal Processing. 3 Units
Prerequisite(s): EEE 174, EEE 181 or equivalent.
Term Typically Offered: Fall only

Advanced signal processing topics include: multirate signal processing, adaptive filter design and analysis, spatial filtering and the application of FIR filter theory to beamforming. Applications of digital signal processing in communication systems, radar systems, and imaging systems are covered. Hardware and software topics, including current products and the incorporation of VLSI are included. Lecture.

EEE 246. Advanced Digital Control. 3 Units
Prerequisite(s): EEE 241.
Term Typically Offered: Spring only – even years

Review of digital control methods using transform techniques. State-variable representation and design of digital control systems, state-space compensators and tracking systems, polynomial equations approach, LQR and LQG discrete-time control and identification, and introduction to adaptive self-turning regulators.

EEE 249. Advanced Topics in Control and Systems. 3 Units
Term Typically Offered: Spring only – even years

Topics from recent advances in control, systems and robotics control selected from IEEE Journals and related professional publications. May be taken twice for credit.

EEE 250. Modern Power Transmission Systems. 3 Units
Prerequisite(s): EEE 142 or equivalent.
Term Typically Offered: Spring only

Characteristics of modern power transmission systems, Transmission line parameters, Steady-state, Dynamic and Transient behavior of AC/DC transmission systems, Flexible AC Transmission Systems (FACTS), High-Voltage Direct Current (HVDC) systems, Analysis of faulted transmission systems and AC/DC hybrid grids.

EEE 251. Power System Economics and Dispatch. 3 Units
Prerequisite(s): EEE 141 or equivalent.
Term Typically Offered: Fall only

Study of a number of engineering and economic matters involved in planning, operating, and controlling power generation and transmission systems in electric utilities. Effects of hydro and nuclear plants on system economics. Economic and environmental constraints. Theoretical developments and computer methods in determining economic operation of interconnected power systems with emphasis on digital computers.

EEE 252. Power System Reliability and Planning. 3 Units
Prerequisite(s): EEE 142 or equivalent.
Term Typically Offered: Spring only

Power system economics, generation, transmission and distribution reliability. Production costing and generation planning, transmission planning.

EEE 253. Control and Stability of Power Systems. 3 Units
Prerequisite(s): EEE graduate standing.
Term Typically Offered: Fall only

The fundamental concepts of control and stability in power systems. Topics include: power systems dynamics and linearized models, small and large disturbances, voltage and frequency stability. Introduction to power systems dynamic simulation for stability studies using CAD tools.

EEE 254. Large Interconnected Power Systems. 3 Units
Prerequisite(s): EEE 142.
Term Typically Offered: Spring only

Computer control, optimization and organization of large power systems. Loan and frequency control, voltage control, large load flow and contingency studies. Introduction to state estimation and load forecasting.

EEE 255. Future Power Systems and Smart Grids. 3 Units
Prerequisite(s): EEE 141, EEE 146, EEE 180, and EEE 250 or instructor permission.
Term Typically Offered: Spring only

Future power systems from component and system perspectives. Smart grids, micro-grids, and interactive power systems using renewable resources and energy storage elements. National standards for certification of distributed generation involving machine-based and inverter-based technologies. Essential elements of advanced sensing, communications and information technology and their roles in adaptive automation, control, protection, and security.

EEE 256. Advanced Power Systems Protection. 3 Units
Prerequisite(s): EEE 141; EEE 145 or instructor permission.
Term Typically Offered: Fall, Spring

Advanced concepts and schemes used in power system protection including the various protective schemes used for transmission lines, transformers, machines, and other elements of a large interconnected power system. Concepts in digital and microprocessor based relay design and analysis of typical protection subsystems, in conjunction with the protection of the power system as a whole.

EEE 257. Wind Energy Electrical Conversion Systems. 3 Units
Prerequisite(s): Fully classified graduate standing in EEE or instructor permission
Term Typically Offered: Fall only

Fundamentals of current technologies and methods in wind energy conversion systems, including turbines, generators and converters as well as control and integration of these devices in power grids. Topics include: power conversion, grid converters for wind systems, system integration, methods for power, voltage and frequency control, and wind farms simulation and aggregation methods.

EEE 259. Advanced Topics in Power Systems. 3 Units
Prerequisite(s): EEE 142.
Term Typically Offered: Spring only

Topics from recent advances in Electrical Power Engineering selected from IEEE Journal on 'Power Systems' and 'Power Systems Delivery.' May be taken twice for credit.

EEE 260. Statistical Theory of Communication. 3 Units
Prerequisite(s): EEE 185.
Term Typically Offered: Fall, Spring

Review of Fourier analysis and theory of probability, random processes, optimum filtering, performance of analog and digital communication systems in the presence of noise, system optimization.

EEE 261. Information Theory, Coding, and Detection. 3 Units
Prerequisite(s): EEE 185.
Term Typically Offered: Fall, Spring

Signal space concepts, optimum M-ary communication systems, MAP estimation of continuous waveform parameters, information theory, coding.

EEE 262. Wireless Communications Systems. 3 Units
Prerequisite(s): EEE 185 or instructor permission.
Term Typically Offered: Fall only

Wireless communication techniques, systems and standards. Topics include cellular systems, RF transmission and analog/digital modulation techniques. Modern techniques such as multiple access and spread spectrum systems. Channel coding and diversity will also be included.

EEE 264. Advanced Topics in Wireless Communications. 3 Units
Prerequisite(s): EEE 262 or instructor permission.
Term Typically Offered: Fall only

Advanced theoretical and practical aspects of modern wireless communications. Specific topics include: advanced cellular concepts, modern small-scale and large-scale propagation models, complex equalization and diversity system design, 3G (third generation) wireless networks, Bluetooth and Personal Area Networks (PANs), GPRS (General Packet Radio Service) and wireless measurement techniques.

EEE 265. Optoelectronic Engineering. 4 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Spring

Generation, propagation and detection of light. Fresnel equations, Snell's law, diffraction, polarization, and interference. Operating principles of LEDs, lasers, photodiodes, optical fibers, photovoltaic devices. Introduction to optical communications systems and optical instrumentation.
Note: EEE 265 and EEE 165 may not be both taken for graduate credit.

EEE 267. Fiber Optic Communications. 3 Units
Prerequisite(s): EEE 185 or instructor permission.
Term Typically Offered: Fall, Spring

Fundamentals of modern lightwave communication systems, sources detectors and optical fibers. Study of dispersion in Step Index, Graded Index and Single Mode Optical Fibers. Intensity Modulated Direct Detection systems (IMDD) and Coherent Fiber Optic Systems (COFOCS). Performance evaluation and design considerations. Wavelength division multiplexing, Local Area Networks, optical amplifiers and photonic switching.

EEE 270. Advanced Topics in Logic Design. 4 Units
Prerequisite(s): EEE Graduate Student Standing.
Term Typically Offered: Fall, Spring

Synchronous and asynchronous state machines. Timing issues in high-speed digital design. Design of a complex system using VHDL and Verilog Hardware Description Languages in a CAD environment. Automation toolsets to synthesize projects containing a hierarchy of modules into Field Programmable Gate Arrays (FPGAs). Simulations using CAD tools to verify the design before implementation on rapid prototyping boards in the lab. Lecture 3 hours; laboratory 3 hours.

EEE 272. High Speed Digital System Design. 3 Units
Prerequisite(s): EEE 161, fully classified graduate standing and instructor permission.
Term Typically Offered: Fall, Spring

Theoretical topics and practical applications relating to high speed digital systems. Review of basic transmission line theory, crosstalk, impact of PCB traces, vias, and connectors on signal integrity, return current paths, simultaneous switching noise, high frequency power delivery, high speed timing budgets, high speed bus design methodologies, radiated emissions, and system noise.

EEE 273. Hierarchical Digital Design Methodology. 3 Units
Prerequisite(s): EEE 64 or equivalent.
Term Typically Offered: Spring only

Hierarchical digital design course that includes: State machine design, Programmable Logic Devices, digital simulation techniques, digital interface, design with ASIC (Application Specific Integrated Circuits), programmable Gate Arrays, and designing with Gas high speed logic devices. Problems with EMI, RFI and EMC will be presented along with design guidelines. Lecture three hours.
Cross Listed: CSC 273; only one may be counted for credit.

EEE 274. Advanced Timing Analysis. 3 Units
Prerequisite(s): EEE 273, CSC 273, CPE 273 or instructor permission.
Term Typically Offered: Fall, Spring

Timing analysis of Application Specific Integrated Circuit (ASIC) designs: Topics include ASIC design methodology, static timing analysis, timing design constraints, design reports, clock timing issues, timing exceptions, operating conditions, hierarchical analysis, analyzing designs with asynchronous logic, performance measurement and power issues.
Cross-listed: CPE 274; only one may be counted for credit.

EEE 280. Advanced Computer Architecture. 3 Units
Prerequisite(s): CSC 205 or instructor permission.
Term Typically Offered: Fall, Spring

Introduces computer classification schemes, structures of uni- and multi-processor systems, parallelism in uniprocessor systems, design and performance analysis of pipelined and array processors; survey and analysis of interconnection networks and parallel memory organizations; programming issues of multiprocessor systems; and fault tolerant computing and design for testability.
Cross Listed: CSC 280; only one may be counted for credit.

EEE 285. Micro-Computer System Design I. 3 Units
Prerequisite(s): EEE 174 or CPE 185.
Term Typically Offered: Fall, Spring

Focuses on: design of the microprocessor based computer system, study of bus structures, interrupt schemes, memory interfacing, timing, bus arbitration, system architecture, data communications, introduction to multiprocessor systems, and software development.

EEE 286. Microcomputer System Design II. 3 Units
Prerequisite(s): EEE 285 or CPE 186.
Term Typically Offered: Fall, Spring

Includes PCI and PCI express bus specifications/architecture, PCI bridges transaction ordering, PCI express transactions and handshaking protocols, electromagnetic interference, methods of eliminating interference, shielding grounding, balancing, filtering, isolation, separation, orientation, cancellation techniques and cable design. Involves design projects and research presentations on PCI and PCI Express Bridge.

EEE 296C. Transients in Power Systems. 3 Units
Prerequisite(s): EEE 130 and EEE 141
Term Typically Offered: Fall, Spring

Transients in electric power systems due to shunt capacitor switching, voltage flicker and nonlinear loads such as electric arc furnaces. Lightning surges and their effect on the power system health and operation. Transformer inrush currents and motor starting. The knowledge of EEE 130 and EEE 141 or equivalent courses is required for taking this course.
Credit/No Credit

EEE 296T. Digital Speech Processing. 3 Units
Prerequisite(s): EEE 181 or instructor permission.
Term Typically Offered: Fall, Spring

The objective of this course is to cover the digital processing of speech signals. Topics include speech production and perception, speech processing in the time frequency domains. Short-time energy and Short-time Fourier analysis, homomorphic and linear predictive coding methods. Also covered are speech coding, basic introduction of text-to-speech synthesis and speech recognition.
Cross listed: CPE 296T.

EEE 299. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Open to qualified students who wish to pursue problems of their own choice. Projects must have approval and supervision of a faculty advisor.

EEE 500. Culminating Experience. 1 - 6 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator, and GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Completion of a thesis, project or comprehensive examination. Credit given upon successful completion of one of the following plans: Plan A: Master's Thesis, 5 units; Plan B: Master's Project, 2 units; or Plan C: Comprehensive Examination.

BS in Electrical and Electronic Engineering

Units required for Major: 92
Total units required for BS: 123

Program Description

The field of Electrical and Electronic Engineering continues to expand in scope, driven by advances in technology and new challenges faced by society. To prepare our graduates for careers in this demanding field, we equip them with a strong background in the fundamental principles of the discipline, and subsequent advanced courses in specific areas. Our curriculum provides practical, hands-on experience through laboratory courses.

The Electrical and Electronic Engineering program provides breadth (core courses), depth (elective sequence), and a culminating design project to apply the knowledge gained through the curriculum. The curriculum allows flexibility by offering a number of elective courses providing our graduates with depth in their respective areas of interest. The electives offered provide depth in one or more of the following areas: Analog/ Digital Electronics, Control Systems, Communication Engineering, and Power Engineering. Students select a senior project either in power engineering or in the general area of electronics. Each of these options includes a sequence of two courses for the completion of the project, and has its own pre-requisite requirements.

Note: Students graduating with a BS in Electrical and Electronic Engineering will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Minimum Grade Requirement

A grade of 'C-' or better is required in all courses applied to an Electrical and Electronic Engineering major.

Program Requirements

Code	Title	Units
Required Lower Division Courses (38 Units)		
CHEM 1E	General Chemistry for Engineering [1]	4
CPE/EEE 64	Introduction to Logic Design [1,2]	4
ENGR 1	Introduction to Engineering [1]	1
ENGR 17	Introductory Circuit Analysis [2]	3
ENGR 50	Computational Methods and Applications	3
MATH 30	Calculus I [1]	4
MATH 31	Calculus II [1]	4
MATH 32	Calculus III	4
MATH 45	Differential Equations for Science and Engineering	3
PHYS 11A	General Physics: Mechanics [1]	4
PHYS 11C	General Physics: Electricity and Magnetism [1]	4
Required Upper Division Courses (33 Units) [3]		
EEE 108	Electronics I	3
EEE 108L	Electronics I Laboratory	1
EEE 117	Network Analysis	3
EEE 117L	Networks Analysis Laboratory	1
EEE 130	Electromechanical Conversion	3
EEE 161	Applied Electromagnetics	4
EEE 174	Introduction to Microprocessors	4
EEE 180	Signals & Systems	3
EEE 184	Introduction to Feedback Systems	3
EEE 185	Modern Communication Systems	3
ENGR 120	Probability and Random Signals	3
ENGR 140	Engineering Economics [1]	2
Required Design Project Series		
Select one of the following two series:		
Electrical Power Design Project Series (11 units)		
EEE 141	Power System Analysis I	
EEE 142	Power System Analysis II	
EEE 143	Power System Laboratory	
EEE 192A	Electrical Power Design Project I [1]	
EEE 192B	Electrical Power Design Project II [1]	
Product Design Project Series (8 units)		
EEE 109	Electronics II	
EEE 193A	Product Design Project I [1]	
EEE 193B	Product Design Project II [1]	

Elective Requirements for Power Design Project Series (10 Units)	
Select 6 units of lecture and 1 unit of laboratory from one of the four areas listed below.	7
Select 3 additional units from any on the list of the electives.	3
Elective Requirements for Product Design Project Series (13 Units)	
Select 6 units of lecture and 1 unit of laboratory from one of the four areas listed below.	7
Select 6 additional units from any on the list of the electives.	6
Total Units	94

[1] Course also satisfies General Education (GE)/Graduation Requirement. The designation 'General Education course' denotes a course which meets GE requirements other than those which also serve as prerequisites to courses in the major. Students are expected to satisfy the University's GE requirements. Consult the Department Chair for specific GE requirements. Students should take ENGL 5 as early as possible since it is required for admission to the upper division.

[2] CPE 64W, EEE 64W or ENGR 17W may be available to augment understanding of material; however, these courses cannot be used to satisfy graduation requirements.

[3] It is imperative that students take the University's Writing Placement for Juniors (WPJ) during the first semester of the junior year, as it is a prerequisite to some laboratory courses after EEE 117L.

Depth Requirement Areas and List of Electives

Depth Requirement (Power Design Project Series):

- Select 6 units of lecture and 1 unit of laboratory from one of the four areas listed below.
- Select 3 additional units from any on the list of the electives.

Depth Requirement (Product Design Project Series):

- Select 6 units of lecture and 1 unit of laboratory from one of the four areas listed below.
- Select 6 additional units from any on the list of electives.

Code	Title	Units
Analog/Digital Electronics (33 Units)		
CPE/CSC 138	Computer Networks and Internets	3
CPE 151	Cmos And Vlsi	3
CPE 153	Vlsi Design	3
CPE 166	Advanced Logic Design	4
CPE 186	Computer Hardware System Design	3
CPE 187	Embedded Systems Design	2
EEE 109	Electronics II [1]	4
EEE 110	Advanced Analog Integrated Circuits	3
EEE 111	Advanced Analog Integrated Circuits Laboratory	1
EEE 120	Electronic Instrumentation	4
EEE 166	Physical Electronics	3
Control Systems (11 Units)		
EEE 178	Introduction to Machine Vision	3
EEE 187	Robotics	4
EEE 188	Digital Control System	3
EEE 189	Controls Laboratory	1
Communication Engineering (19 Units)		
EEE 122	Applied Digital Signal Processing	3
EEE 162	Applied Wave Propagation	3
EEE 163	Traveling Waves Laboratory	1
EEE 165	Introduction To Optical Engineering	3
EEE 167	Electro-Optical Engineering Lab	1
EEE 181	Introduction to Digital Signal Processing	3
EEE 182	Digital Signal Processing Lab	1
EEE 183	Digital and Wireless Communication System Design	3
EEE 186	Communication Systems Laboratory	1
Power Engineering (29 Units)		
EEE 131	Electromechanics Laboratory	1
EEE 135	Renewable Electrical Energy Sources and Grid Integration	3
EEE 136	Smart Electric Power Grid	3
EEE 137	Applications of Power Electronics in Power Systems	3
EEE 141	Power System Analysis I [2]	3
EEE 142	Power System Analysis II [2]	3
EEE 143	Power System Laboratory [2]	1
EEE 144	Electric Power Distribution	3
EEE 145	Power System Relay Protection and Laboratory	4
EEE 146	Power Electronics Controlled Drives	3
EEE 147	Power System Operation and Control Laboratory	1
EEE 148	Power Electronics Laboratory	1

[1] Students planning to complete EEE 193A/EEE 193B series may **not** use EEE 109 to meet depth/elective requirement.

[2] Students planning to complete EEE 192A/EEE 192B series may **not** use EEE 141, EEE 142, and EEE 143 to meet depth/elective requirement.

Note:

- Other upper division courses in Engineering and Computer Science may be selected as elective lectures with **prior** approval of the student's advisor.
- Other upper division and graduate courses in Engineering and Computer Science may be selected as elective lectures with **prior** approval of the student's advisor. Graduate courses counted towards a BS degree may **not** be used for a MS degree.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5 [2]		0
B4 - Math Concepts [2]		0

B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]	0
Area C: Arts and Humanities (12 Units)	
C1 - Arts	3
C2 - Humanities	3
C1/C2 - Area Course C	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (9 Units)	
Area D Course	3
Area D Course	3
Area D Course	3
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]	0
Area E: Understanding Personal Development	
Area E Course [2]	0
Total Units	33

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Electrical and Electronic Engineering are exempt from the Foreign Language Graduation Requirement.

Certificate in Mixed-Signal Integrated Circuit Design

Units required for Certificate: 16

Program Description

The certificate in mixed-signal integrated circuit design will recognize the commitment and accomplishments of graduate students studying in this area, and provide potential employers with evidence of the skills students have developed. Graduate students studying mixed-signal integrated circuit (IC) design will become knowledgeable and proficient in the different skills this demanding field requires. This requires studying multiple subjects such as amplifier design, device physics and matching, analog layout techniques, and key mixed-signal building blocks. In addition, students will learn the methods and tools used to design and layout ICs.

Program Requirements

Code	Title	Units
Required Lower Division Courses (13 Units)		
EEE 230	Analog and Mixed Signal Integrated Circuit Design	3
EEE 231	Advanced Analog and Mixed Signal Integrated Circuit Design	3
EEE 232	Key Mixed-Signal Integrated Circuit Building Blocks	3
EEE 235	Mixed-Signal IC Design Laboratory	1
EEE 236	Advanced Semiconductor Devices	3
Required Electives (3 Units)		
Select one of the following:		3
EEE 110	Advanced Analog Integrated Circuits	
EEE 234	Digital Integrated Circuit Design	
EEE 238	Advanced VLSI Design-For-Test I	
EEE 239	Advanced VLSI Design-For-Test II	
Total Units		16

MS in Electrical and Electronic Engineering

Total units required for MS: 30

Program Description

The Master of Science degree program in Electrical and Electronic Engineering is designed to provide students with advanced study in a variety of Electrical and Electronic Engineering topics, and opportunities to conduct independent research to broaden their professional scope.

The scheduling of courses and the Culminating Experience options in the program are designed to provide flexibility for working professionals. All students complete a one-unit research methodology course, three-unit computational methods course, and at least two of the designated elective area core courses. This requirement is designed to provide a strong academic foundation. In consultation with the Graduate Coordinator and faculty advisors, students then focus their studies in one or more of the following areas, adapting to the needs and interests of the practicing engineer or post-graduate candidate:

- Control Systems
- Communication Systems
- Power Systems
- Microelectronic Design
- Computer Architecture & Digital Design

Coordinated courses are offered in advanced microprocessors, electromagnetic theory and microwaves, lasers and fiber optics, semiconductor devices, robotics and intelligent machines, systems and control, networks, and communication systems. Other coordinated courses facilitate the study of estimation and stochastic control, advanced communications and signal processing, large interconnected power systems, power systems reliability, and planning, advanced design and organization of digital computer systems, and advanced integrated circuit design. The program is also sufficiently flexible to allow special independent studies of problems of current interest.

The Department has a strong relationship with the local engineering community. Students of the program have access to Department laboratories and facilities and to University computer services.

Admission Requirements

Admission as a classified graduate student in Electrical and Electronic Engineering requires:

- a BS in Electrical and Electronic Engineering or equivalent;
- at least a 3.0 GPA in the BS in Electrical Engineering or equivalent; and
- at least a 3.25 GPA in the last 60 units of the BS in Electrical and Electronic Engineering or equivalent.

Under special circumstances, a student who does not satisfy the Admission Requirements may be admitted as a conditionally classified graduate student. Deficiencies will be specified in the acceptance letter to the student and must be removed by the student before the student can become a classified graduate student.

A student registered as an unclassified graduate student should carefully note that graduate courses taken as an unclassified graduate or as an open university student cannot be used to improve the student's grade point average for admittance to the Electrical and Electronic Engineering graduate program. Only undergraduate Electrical and Electronic Engineering courses can be taken or retaken to improve the GPA of the student for admittance to the graduate program.

Admission Procedures

Applications are accepted as long as room for new students exists. However, students are strongly urged to apply by April 1 for the following fall or October 1 for the following spring. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for admission; and
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State.*

At the same time, students not meeting the above admission requirements should submit to the Electrical and Electronic Engineering Graduate Coordinator two letters of recommendation, Graduate Record Examination scores, and/or other evidence of their potential for successful graduate study in this program.

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

Minimum Units and Grade Requirement for the Degree

Units Required for the MS: 30

Minimum Cumulative GPA: 3.0. No more than three (3) courses in the program of study may have a grade below 'B' and no course may have a grade below 'C+'.

Advancement to Candidacy

By the end of the first semester, after admission to the program, each student in the EEE Department is required to have a program of study approved by an elective area core faculty advisor and the Graduate Coordinator. Students will fill out a form (contract) outlining what courses they plan to take to complete the MS degree. This contract will be signed by the student and the faculty advisor, and filed in the EEE Department Office.

In addition, each student must file an application for Advancement to Candidacy with the Office of Graduate Studies indicating a proposed program of graduate study for the completion of the MS EEE. This procedure should begin as soon as the *classified* graduate student has:

- removed any deficiencies in Admission Requirements;
- completed a minimum of 12 units in the graduate program with a minimum 3.0 GPA; at least nine units of the 12 units must be EEE 200 level courses; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Each student must be advanced to candidacy prior to registering for EEE 500.

Advancement to Candidacy forms are available in the Office of Graduate Studies and in the Electrical and Electronic Engineering Department Office.

Program Requirements

Code	Title	Units
Required Core Courses (10 Units)		**9**
EEE 201	Research Methodology	1
EEE 244	Electrical Engineering Computational Methods and Applications	3
Select two of the following:		6
EEE 211	Microwave Engineering [1]	
EEE 230	Analog and Mixed Signal Integrated Circuit Design	
EEE 241	Linear Systems Analysis	
EEE 250	Modern Power Transmission Systems	
EEE 260	Statistical Theory of Communication [1]	
EEE 285	Micro-Computer System Design I	
Electives (15-20 Units)		
Select from the following and other areas so that the overall program totals at least 30 units: [2]		15 - 20

Communication Systems	
EEE 211	Microwave Engineering
EEE 212	Modern Antenna Design
EEE 213	Microwave Devices and Circuits
EEE 214	Computer Aided Design for Microwave Circuits
EEE 215	Lasers
EEE 245	Advanced Digital Signal Processing
EEE 260	Statistical Theory of Communication
EEE 261	Information Theory, Coding, and Detection
EEE 262	Wireless Communications Systems
EEE 264	Advanced Topics in Wireless Communications
EEE 265	Optoelectronic Engineering
EEE 267	Fiber Optic Communications
EEE 272	High Speed Digital System Design
Control Systems	
EEE 221	Machine Vision
EEE 222	Electronic Neural Networks
EEE 225	Advanced Robot Control
EEE 241	Linear Systems Analysis
EEE 242	Statistical Signal Processing
EEE 243	Applied Stochastic Processes
EEE 246	Advanced Digital Control
EEE 249	Advanced Topics in Control and Systems
Power Systems	
EEE 250	Modern Power Transmission Systems
EEE 251	Power System Economics and Dispatch
EEE 252	Power System Reliability and Planning
EEE 253	Control and Stability of Power Systems
EEE 254	Large Interconnected Power Systems
EEE 255	Future Power Systems and Smart Grids
EEE 256	Advanced Power Systems Protection
EEE 257	Wind Energy Electrical Conversion Systems
EEE 259	Advanced Topics in Power Systems
Microelectronic Design	
EEE 230	Analog and Mixed Signal Integrated Circuit Design
EEE 231	Advanced Analog and Mixed Signal Integrated Circuit Design
EEE 232	Key Mixed-Signal Integrated Circuit Building Blocks
EEE 234	Digital Integrated Circuit Design
EEE 235	Mixed-Signal IC Design Laboratory
EEE 236	Advanced Semiconductor Devices
EEE 238	Advanced VLSI Design-For-Test I
EEE 239	Advanced VLSI Design-For-Test II
Computer Architecture & Digital Design	
EEE 270	Advanced Topics in Logic Design
EEE 272	High Speed Digital System Design
EEE/CSC 273	Hierarchical Digital Design Methodology
EEE 274	Advanced Timing Analysis
EEE/CSC 280	Advanced Computer Architecture
EEE 285	Micro-Computer System Design I
EEE 286	Microcomputer System Design II

Culminating Requirement (1-6 Units)

EEE 500	Culminating Experience	1 - 6
Total Units		30-36

[1] Only one of these two courses will be counted as a core requirement. The other may be taken as an elective.

[2] Select at least 15 units if completing a 5 unit Plan A thesisl select at least 18 units if completing a 2 unit Plan B project, and select at least 20 units if completing a Plan C exam. This selection must be done in consultation with the elective area faculty advisor and the Graduate Coordinator, and may include approved courses from other areas. A maximum of 7 units of undergraduate technical electives in electrical and electronic engineering or computer engineering may be applied to this requirement if approved by the Graduate Coordinator and if they have not been used to satisfy the BS program requirements or MS EEE admission requirements.

Notes:

- **The student cannot register for the Culminating Experience until the student passes the Writing Placement for Graduate Students (WPG), and advances to candidacy**. In subsequent semesters, students will enroll in Continuous Enrollment through the College of Continuing Education after qualifications for enrollment are verified.
- **Before registering for** EEE 500, students choosing Plan A, Master Thesis (5 units), or Plan B, Master Project (2 units), must submit an approved Topic Form to the Graduate Coordinator.
- **Students opting for Plan C, Comprehensive Exam**, must have that option approved by their elective area advisor. They will not receive degree credit for EEE 500. They must complete a total of 30 units of approved coursework, including core, elective core, and elective courses. They must advance to candidacy for the degree, and take a written comprehensive exam that will cover all of the material in their MS Program of Study. After a student's first failed attempt at the Plan C examination, the student shall receive advising from the graduate coordinator designed to prepare the student for a second attempt at the examination. Such advising may include a recommendation for the student to take additional course(s) to improve preparation for the next attempt. According to the Office of Graduate Studies policy, students are allowed no more than two attempts at the examination: however, if the EEE Department determines that there are extreme extenuating circumstances, the student may be recommended to the Office of Graduate Studies for a third attempt at the examination. Students are advised that a change from the exam option to project or thesis option is **not allowed** after the first attempt at the exam. Additionally, after two unsuccessful attempts at the exam, the student is subject to discontinuation from the graduate program. **Note:** It should be recognized that industry puts a high value on project and thesis problem-solving experience, and the demonstration of technical writing skill that these options require. Graduating under Plan C option will not provide that experience. Students taking this option should consider, with their elective area advisors, other ways of gaining that valuable experience, such as through an EEE 299 Special Problems course.
- **As soon as possible after the student has registered for** EEE 500, it is expected that the student will select a committee appropriate to the chosen plan of study. The Thesis Committee is to consist of the student's Thesis Advisor, who is the Chairperson of the student's Thesis Committee, and two other faculty members. The Project Committee is to consist of the student's Project Advisor, who is the

Chairperson of the student's Project Committee, and one other faculty member. The committee members selected by the student must be approved by the Electrical and Electronic Engineering Department's Graduate Coordinator.

- **The Thesis (Plan A)** must be orally presented and defended, approved by the student's Thesis Committee, and approved by the Electrical and Electronic Engineering Graduate Coordinator prior to submittal of the Thesis to the Office of Graduate Studies.
- **The Project (Plan B)** is to culminate in a report and a device or simulation, which is to be demonstrated to the student's Project Committee. The Project Report must be approved by the student's Project Committee and approved by the Electrical and Electronic Engineering Graduate Coordinator prior to its submittal to the Office of Graduate Studies.

Engineering

College of Engineering and Computer Science

Engineering Minor Description

Non-majors in Engineering may elect to minor in this field. Minor requirements may be satisfied by completing 21 approved units, of which 12 must be upper division. Students who have not completed the lower division requirements in calculus, including differential equations, physics, chemistry, and a few engineering courses will find it difficult to complete this minor in the four-year program due to the prerequisite requirements of upper division engineering courses. Added some info.

Students wishing to minor in Engineering must have their minor program approved by the Associate Dean of the College of Engineering and Computer Science.

Degree Program

Minor in Engineering (p. 615)

Contact Information

Kevan Shafizadeh, Associate Dean
Riverside Hall 2014
(916) 278-6852
Email the Associate Dean of ECS (assocdean@ecs.csus.edu)
College of Engineering & Computer Science Website (http://www.ecs.csus.edu)

ENGR 1. Introduction to Engineering. 1 Unit
Prerequisite(s): Engineering major status or instructor permission
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Engineering study skills, fundamentals of the engineering design process and problem solving, current engineering challenges. Distinctions and similarities of different engineering disciplines. The engineering profession, ethics, teamwork, communication skills. Course helps students make an informed choice of their engineering majors.
Credit/No Credit

ENGR 1A. Fundamentals of Engineering. 3 Units
Prerequisite(s): Algebra and trigonometry or instructor permission.
Term Typically Offered: Fall, Spring

Problem solving skills needed in all areas of engineering offered at Sacramento State. Exposure to the different areas of engineering, and understanding of the relationship between them. Students will work in teams and complete hands-on engineering laboratory experiments and projects. Development of effective communication skills by presenting periodic oral and written reports. Computers will be used throughout. Lecture two hours, laboratory three hours.
Note: Not for degree credit.

Credit/No Credit

ENGR 2. Robotics Explorations. 3 Units
Prerequisite(s): Algebra and Trigonometry.
Term Typically Offered: Fall, Spring

Introduction to robotics. History of robotics, recent advances in the field, common devices such as sensors and actuators. Use of modular robotic kits. Students will be assigned competition based projects.

ENGR 6. Engineering Graphics and CADD (Computer Aided Drafting and Design). 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

In-depth graphical analysis and solution of typical three-dimensional space problems by applying the principles of orthogonal projection. Fundamentals of interactive computer aided design and drafting. Preparation of engineering drawings utilizing the CAD system. Lecture two hours; laboratory three hours.

ENGR 6W. Engineering Graphics and CADD Workshop. 1 Unit
Corequisite(s): ENGR 6.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of topics in Engineering Graphics and CADD (Computer Aided Drafting and Design) to enhance students' understanding of subject matter. Not for degree credit. Technical activity and laboratory, two hours.
Credit/No Credit

ENGR 7. 3-D CAD Solid Modeling. 3 Units
Prerequisite(s): ENGR 4 or ENGR 6.
Term Typically Offered: Fall, Spring

Applications of three-dimensional representation techniques as used in a typical CAD (computer aided drafting) software package (AutoCAD). Fundamentals employed in creating, modifying, analyzing and filing engineering drawings. This course will have a mechanical emphasis. Lecture two hours; laboratory three hours.

ENGR 17. Introductory Circuit Analysis. 3 Units
Prerequisite(s): PHYS 11C, MATH 45; either the math or physics may be taken concurrently, but not both.
Term Typically Offered: Fall, Spring, Summer

Writing of mesh and node equations. DC and transient circuit analysis by linear differential equation techniques. Application of laws and theorems of Kirchoff, Ohm, Thevenin, Norton and maximum power transfer. Sinusoidal analysis using phasors, average power.

ENGR 17W. Circuits Workshop. 1 Unit
Corequisite(s): ENGR 17.
Term Typically Offered: Fall, Spring, Summer

Elaborates on fundamentals and enhances students' understanding of circuits.
Note: Not for degree credit.

Credit/No Credit

ENGR 30. Analytic Mechanics: Statics. 3 Units
Prerequisite(s): PHYS 11A and MATH 31
Term Typically Offered: Fall, Spring, Summer

Statics of particles. Equivalent systems of forces. Equilibrium of rigid bodies. Centroids, centers of gravity and forces on submerged surfaces. Analyzes trusses including use of computer programs. Analyzes frames and machines. Forces in beams including shear and moment diagrams. Friction. Moments of inertia.

ENGR 45. Engineering Materials. 3 Units
Prerequisite(s): CHEM 1E and MATH 30. CHEM 1E may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Basic principles of mechanical, electrical and chemical behavior of metals, polymers and ceramics in engineering applications; topics include bonding, crystalline structure and imperfections, phase diagrams, corrosion, and electrical properties. Laboratory experiments demonstrate actual behavior of materials; topics include metallography, mechanical properties of metals and heat treatment. Lecture two hours; laboratory three hours.
Note: Fee course.

Fee course.

ENGR 45W. Engineering Materials Workshop. 1 Unit
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of topics in materials science to enhance students' understanding of subject matter. Activity two hours.
Note: Can not be used for the degree requirement.

Credit/No Credit

ENGR 50. Computational Methods and Applications. 3 Units
Prerequisite(s): Math 30 and PHYS 11A; Physics 11A may be taken concurrently
Term Typically Offered: Fall, Spring

Computational methods for solving problems in analysis and design. Introduces lower division students to the use of computer technology for the computations required to solve real world problems in science and engineering. Includes introduction to numerical techniques, introduction to structured programming, and graphic visualization. Practical applications of analysis and design using tools such as MATLAB and C++. Emphasis is on developing confidence and skill in finding computational solutions to practical science and engineering problems. Portable computer recommended. Lecture three hours.

ENGR 60. MEP Orientation and Problem Solving. 2 Units
Term Typically Offered: Fall, Spring

Mandatory class for MEP freshman students on orientation to the University, its resources, facilities and faculty. Students will be encouraged to form a group atmosphere where they can freely interact with each other and value each other as resources. Students will be provided with instruction and materials on study skills, note taking, time management, preparing for tests and dealing with stress. Presentation by working engineers and field trips to engineering firms will be taken. Personal and professional development will also be part of the freshman orientations with leadership, public speaking and career planning being topics of discussion. Lecture one hour; activity two hours.
Note: Not for use as an engineering major technical elective and is not applicable to the baccalaureate degree.

Field trip(s) may be required.

ENGR 70. Engineering Mechanics. 3 Units
Prerequisite(s): PHYS 11A.
Term Typically Offered: Fall, Spring

Statics of particles. Equivalent systems of forces. Equilibrium of rigid bodies. Centroids, centers of mass and gravity. Analyzes trusses, frames and machines. Friction. Moments of inertia. Fundamental principles of kinematics and kinetics, study of motion and force analysis of particles and rigid bodies.

ENGR 96A. Interdisciplinary Topics in Engineering. 1 Unit
Term Typically Offered: Fall, Spring

Course will enable students to make an informed choice of their engineering majors, engage on interdisciplinary discussions between engineering fields, and equip them with relevant study skills. An introduction to engineering and the fundamentals of problem solving. Distinctions between different disciplines within engineering as well as other similarities. The engineering profession and ethics. Study skills for an engineering education.
Credit/No Credit

ENGR 105. Sustainable Design and Construction. 3 Units
Prerequisite(s): Upper division standing or instructor permission.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Strategies, analysis methods, and processes of environmentally conscious planning, design, construction, operation, deconstruction, and assessment of engineered facilities. Presents a systematic framework for problem solving, decision making, design, and construction using the principles of sustainability as guiding objectives. Tools, and techniques for gathering information, generating, analyzing, and evaluation alternatives, and developing implementation strategies are presented and demonstrated.

ENGR 106. Energy and Modern Life. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring, Summer

Our modern life is intimately and increasingly intertwined with energy utilization. This course deals with where energy comes from, how it is converted to desirable forms, where it is consumed, and what the consequences of this consumption are. In each case, historical prospective, current status, and future projections will be discussed. The ultimate objective of this course is to help students to make informed decisions on energy-related issues in their personal life and as responsible citizens of the society.

ENGR 110. Analytic Mechanics - Dynamics. 3 Units
Prerequisite(s): Student must pass ENGR 30, MATH 45, and MATH 32 or MATH 35 or MATH 100 with a minimum grade of C- or better.
Term Typically Offered: Fall, Spring, Summer

Fundamental principles of kinematics and kinetics, study of motion and force analysis of particles and rigid bodies, application to idealized structures and physical systems, introduction to free and forced vibrations.

ENGR 110W. Analytic Mechanics-Dynamics Workshop. 1 Unit
Corequisite(s): ENGR 110.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of topics in dynamics to enhance students' understanding of subject matter. Activity two hours.
Note: Can not be used for degree requirement.

Credit/No Credit

ENGR 112. Mechanics Of Materials. 3 Units
Prerequisite(s): ENGR 30; ENGR 45; MATH 45; and either CE 4 or ENGR 6 (CE 4 or ENGR 6 may be taken concurrently).
Term Typically Offered: Fall, Spring, Summer

Stresses, strains and deformations in elastic behavior of axial force, torsion and bending members, and design applications. Statically indeterminate problems. Strain energy. Column stability.

ENGR 115. Statistics For Engineers. 3 Units
Prerequisite(s): MATH 31, may be taken concurrently.
Term Typically Offered: Fall, Spring

Application of statistical methods to the analysis of engineering and physical systems. Data collection, characteristics of distributions, probability, uses of normal distribution, linear and nonlinear regression analysis, hypothesis testing, and decision-making under uncertainty.

ENGR 117W. Networks Workshop. 1 Unit
Corequisite(s): EEE 117.
Term Typically Offered: Fall, Spring

Elaborates on fundamentals and enhances students' understanding of networks.
Note: Not for degree credit.

Credit/No Credit

ENGR 120. Probability and Random Signals. 3 Units
Prerequisite(s): EEE 180; may be taken concurrently.
Term Typically Offered: Fall, Spring

Probability and random signals and their application in engineering systems. Topics include the random sample space model, concept of axiomatic probability, conditional probability, discrete and continuous random variables, probability density and distribution functions, functions and statistics of random variables, random vectors multivariate distributions, and correlation and covariance of random vectors. Applications include estimation, risk, signal detection, random signals and noise in linear systems, reliability, and estimation.

ENGR 124. Thermodynamics. 3 Units
Prerequisite(s): CHEM 1E, PHYS 11A, and MATH 32 or MATH 35 or MATH 100.
Term Typically Offered: Fall, Spring, Summer

Study of thermodynamic principles and their applications to engineering problems. Includes a study of the first and second laws, the properties of pure substances and ideal gas, gas/vapor mixtures, and an introduction to thermodynamic cycles.

ENGR 124W. Thermodynamics Workshop. 1 Unit
Corequisite(s): ENGR 124.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of topics in thermodynamics to enhance students' understanding of subject matter. Activity two hours.
Credit/No Credit

ENGR 132. Fluid Mechanics. 3 Units
Prerequisite(s): ENGR 110 (may be taken concurrently)
Term Typically Offered: Fall, Spring, Summer

Lectures and problems in the fundamental principles of incompressible and compressible fluid flow.

ENGR 140. Engineering Economics. 2 Units
Prerequisite(s): ENGR 17 or ENGR 30
Evaluation of economic consequences of engineering design proposals on projects. Emphasis on marginal or incremental economic analysis using Net Present Value, Annual Equivalence, Rate of Return and Benefit-Cost methods including multiple alternatives, taxes, uncertainty, inflation, organizational constraints and money market factors.

ENGR 150. Technical Communication. 3 Units
Prerequisite(s): Recommendation based on the results of the WPG or instructor permission
Term Typically Offered: Fall, Spring

Practical technical communication for engineers and computer scientists. Topics covered include practical technical writing, improving technical writing style, development of strategies to improve writing, oral presentations, running effective meetings, and the use of visual aids. The use of appropriate communication technology is emphasized throughout the course.

ENGR 181. Electronic Materials. 3 Units
Prerequisite(s): CHEM 1A, PHYS 11A, MATH 45.
Term Typically Offered: Fall, Spring

Basic principles of materials behavior pertaining to electronics applications. Topics include electrical conductivity, bonding, crystal structures, optical properties, magnetic properties, energy transfer, and the fundamentals of some simple electronic devices. Lecture 3 hours.

ENGR 194. Career Development Seminar. 1 Unit
Term Typically Offered: Fall, Spring

This course is designed for all ECS majors making career decisions and developing a job search strategy. Instruction will include: effective career planning strategies and techniques including skill assessment, interests, values, job search organization and strategies, goal setting, and time management as well as professional image development including interview techniques, resume writing, employment related correspondence and portfolio construction. Guest speakers from industry will be featured.
Credit/No Credit

ENGR 196B. Energy and Modern Life. 3 Units
Term Typically Offered: Fall, Spring

Our 'modern life' is intimately and increasingly intertwined with energy utilization. This course deals with where energy comes from, how it is converted to desirable forms, where it is consumed, and what the consequences of this consumption are. In each case, historical prospective, current status, and future projections will be discussed. The ultimate objective of this course is to help students to make informed decisions on energy-related issues in their personal life and as responsible citizens of the society.

ENGR 201. Engineering Analysis I. 3 Units
Prerequisite(s): MATH 45.
Term Typically Offered: Fall, Spring

Mathematical methods for the solution of advanced engineering problems. Vector analysis, tensors and matrix algebra, complex variable techniques. The applications of these methods to practical engineering problems are demonstrated.

ENGR 202. Engineering Analysis II. 3 Units
Prerequisite(s): MATH 45.
Term Typically Offered: Fall, Spring

Mathematical methods for the solution of advanced engineering problems. Solutions of ordinary and partial differential equations, Fourier series and Laplace transforms and operational calculus. The applications of these methods to practical engineering problems are demonstrated.

ENGR 203. Engineering Statistics. 3 Units
Prerequisite(s): ENGR 115 or equivalent.
Term Typically Offered: Fall, Spring

Applications of statistics to engineering problems. Collection and analysis of data, sampling methods, design of experiments, probability theory, decision theory, analysis of variance, regression analysis, and mathematical curve fitting.

ENGR 296. Experimental Methods for Fluids. 3 Units
Prerequisite(s): ENGR 132, and either MATH 32 or ENGR 202
Term Typically Offered: Spring only

Experimental methods for flow and transport phenomena are studied in the lecture and applied in the lab/field. Topics include planar laser induced fluorescence, acoustic velocimetry, and sediment transport.

ENGR 296A. Quality Management Systems for Engineers. 3 Units
Prerequisite(s): Graduate Standing
Term Typically Offered: Fall, Spring

Designed to equip students with understanding of basic terms and definitions related to quality, a brief history and basic quality concepts, understanding measurement systems and tools, understanding differences of quality control (QC), quality assurance (QA) and quality management (QM), getting familiar with the applications of different tools, systems and standards and how to select proper tools for different quality requirements. Understanding basic inspection, auditing, assessment and evaluation techniques.

Minor in Engineering

Units required for Minor: 21, of which 12 must be upper division

Program Description

Non-majors in Engineering may elect to minor in this field. Students who have not completed the lower division requirements in calculus, including differential equations, physics, chemistry, and a few engineering courses will find it difficult to complete this minor in the four-year program due to the prerequisite requirements of upper division engineering courses.

Students wishing to minor in Engineering must have their minor program approved by the Associate Dean of the College of Engineering and Computer Science.

Program Requirements

Code	Title	Units
ENGR 17	Introductory Circuit Analysis	3
ENGR 30	Analytic Mechanics: Statics	3
ENGR 45	Engineering Materials	3
ENGR 110	Analytic Mechanics - Dynamics	3
ENGR 112	Mechanics Of Materials	3
ENGR 124	Thermodynamics	3
ENGR 132	Fluid Mechanics	3
Total Units		21

Mechanical Engineering

College of Engineering and Computer Science

Program Description

Mechanical Engineering involves the design of all types of machines and equipment including vehicles used in ground, air, and space transportation; machines for the conversion of fuels into energy; food processing; consumer products; robots; biomedical devices; the machines used to manufacture all of the above; and the climate control of buildings. Mechanical engineers bring together the fields of design graphics, manufacturing, engineering materials, thermodynamics and heat transfer, and the principles of mathematics and science to find solutions to societal needs. They often work directly in the design and operation of food processing plants, power plants, manufacturing plants, refineries, and other industrial operations. A major goal of the curriculum is to provide the graduates with the analytical and practical skills needed to perform mechanical design in a variety of fields, preparing graduates to take advantage of the many employment opportunities.

The Mechanical Engineering Program includes courses on design, thermal sciences, manufacturing, properties, and selection of materials, and computer applications related to these topics. The curriculum maintains a balance among basic fundamentals, analytical methods, and design applications of current knowledge, preparing the graduates for both entry into the profession and a life-long career.

The employers of Mechanical Engineering graduates include aircraft and automobile companies, food processing companies, machinery and equipment companies, gas and electric utilities, architectural and engineering firms, and many agencies in federal, state, and local governments. Some graduates continue their education by completing advanced degrees in Engineering or Management.

Cooperative Education Program (Work Experience)

The Department of Mechanical Engineering encourages students to participate in the Cooperative Education Program, which provides alternate periods of university study and major-related, off-campus, paid employment in industry. Most students who elect to participate in cooperative education will complete the equivalent of two 6-month work periods before graduation.

Students interested in the Cooperative Education Program should apply in Lassen Hall 1013. For information, call (916) 278-6231.

Degree Programs

BS in Mechanical Engineering (p. 626)

Blended BS/MS in Mechanical Engineering Program (p. 625)

MS in Mechanical Engineering (p. 628)

- Specializations in Aerospace Systems, Design & Dynamic Systems, Manufacturing & Materials Engineering, and Thermal & Fluid Systems

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Mechanical Engineering is also individually accredited by ABET, Inc.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

- The Mechanical Engineering program is ABET accredited by the Engineering Accreditation Commission (EAC/ABET),
  Engineering Accreditation Commission (EAC/ABET)
  111 Market Place, Suite 1050
  Baltimore, Maryland 21202
  (410) 347-7700
  In keeping with its accreditation, the Mechanical Engineering program has strong engineering design content. In particular, the program includes a four-semester sequence on modern design and manufacturing methods.
- Faculty members have backgrounds in Mechanical, Aeronautical, Manufacturing, and Materials Science. The faculty has a variety of research interests; the majority has industrial experience which contributes to the applied emphasis in the Mechanical Engineering program. Most of the faculty have doctorates; some are registered Professional Engineers (PE).
- Lectures and lab are arranged so students can participate in meaningful discussions and a real exchange of ideas between students and faculty.
- Upper division students do cooperative work on team projects and often develop study groups for other courses.
- Courses taken in the freshman and sophomore years form a foundation for the upper division program; e.g., the dynamics and strength of materials studied in the junior year depend on the sophomore mechanics, calculus, and physics courses. Building on analytical and communications skills learned in the lower division, students take a four semester design-project sequence which includes the study of design methods, and the procedures for developing a design solution from concept through a fully-developed design and finally to production. The courses in mechanics, energy transformation, manufacturing, and materials support this sequence.
- Students can take elective courses in computer analysis, heating, ventilating and air-conditioning, manufacturing methods, and systems and materials engineering.

Program Educational Objectives

Mechanical Engineering Graduates will have:

- utilized a foundation in engineering and science to engage in successful careers in mechanical engineering or other fields to the benefit of society.
- become effective participants or leaders in innovation and multi-disciplinary collaboration to address global technical, social, and industrial issues.
- engaged in career and professional development through self-study, continuing education, or graduate studies in engineering or other professional fields.

Academic Policies and Procedures

Course Repeat Policy - Undergraduate engineering and mechanical engineering courses that are used to meet the Bachelor of Science in Mechanical Engineering degree requirements may be repeated only twice (for a total of three attempts). Grades of the second and third attempts will be averaged in grade point calculations.

Incomplete Grades - Incomplete grades are issued only in accordance with University policy. The student must be passing the course at the time an 'Incomplete' is requested. An Incomplete Petition must be submitted to the Department with the student's and the course instructor's signature. The Incomplete Petition (obtained in the Department Office) must specify the work to be completed, the basis by which the student's final grade will be determined, and the last date for completion of the incomplete work. An incomplete grade that is not cleared by the set date will lapse to an 'F' grade.

Career Possibilities

Aeronautical Engineer · Automotive Engineer · Design Engineer · Development Engineer · Energy Management Engineering Manager · Environmental Engineer · Food Processing Machine Designer · Manufacturing Engineer · Plant Engineer · Project Engineer · Research Engineer · Technical Sales Engineer

Contact Information

Dr. Akihiko Kumagai, Department Chair
Ryan Gorsiski, Administrative Support Coordinator II
Riverside Hall 4024
(916) 278-6624
Department of Mechanical Engineering Website (http://www.ecs.csus.edu/wcm/me/)

Faculty

EKE, ESTELLE M.

GRANDA, JOSE

HOMEN, PATRICK

KAZEMIFAR, FARZAN

KUMAGAI, AKIHIKO

MARBACH, TIMOTHY L.

ROMANI, MARCUS

SPROTT, KENNETH S.

SUH, YONG S.

TOPPING, TROY

TUZCU, ILHAN

VOGT, RUSTIN

ZABIHIAN, FARSHID

ZHOU, DONGMEI

ME 37. Manufacturing Processes. 3 Units
Term Typically Offered: Fall, Spring, Summer

Principles of manufacturing processes in the areas of metal removal, forming, joining and casting and fundamentals of numerical control. Study includes applications of equipment, e.g., lathe, milling machine, drill press, saw, grinder, welder, molding equipment and core makers. Emphasis on safety during hands-on operations. Two hours lecture, one three-hour lab.

ME 76. Programming and Problem Solving in Engineering. 2 Units
Prerequisite(s): Math 30; Phys 11A; Phys 11A may be taken concurrently
Term Typically Offered: Fall, Spring, Summer

Introduction to the use of computers for engineering, science and mathematical computations. Provides basic computer operation skills, and includes the use of modern interactive symbolic and numerical computation packages as well as an introduction to programming methods for solving engineering problems. Both analytical and graphical tools will be used for applications. Sample applications will be drawn from a variety of science and engineering areas.

ME 105. Introduction to Technical Problem Solving. 3 Units
Prerequisite(s): ENGR 17 and ENGR 30.
Term Typically Offered: Fall, Spring, Summer

Introduction to the use of computers for engineering, science and mathematical computations. Introduction to linear algebra and matrix applications. Introduction to concepts of programming and visualization using MATLAB and PBasic. Practical applications involving design using a microcontroller. Applications will be drawn from a variety of science and engineering areas. Lecture two hours, Laboratory three hours.

ME 106. Applications of Programming in Mechanical Engineering. 1 Unit
Prerequisite(s): ME 76 or equivalent
Term Typically Offered: Fall, Spring, Summer

Application of programming in the solution of practical engineering problems. Topics include problem formulation, algorithm development, advanced graphical user-interface development, and generating simulations using software packages such as Simulink. A project that involves programming a robot to perform designated tasks is included. Laboratory 1 unit.

ME 108. Professional Topics for Mechanical Engineers. 2 Units
Prerequisite(s): MATH 31. MATH 31 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to statistical methods applied to analysis of engineering systems. Topics include data collection, distribution characteristics, probability, uses of regression analysis, and decision-making under uncertainty. Introduction to economic analysis applied to engineering designs. Topics include marginal or incremental economic analysis using multiple standard methods while addressing organizational constraints and market factors. Investigations into the roles engineers play in society in working toward sustainability, and ethical decision making in a technological world.

ME 114. Vibrations. 3 Units
Prerequisite(s): ENGR 110, ME 105.
Term Typically Offered: Fall, Spring

Generation of equations of motion for single and multiple degree freedom systems. Study of natural frequencies, eigenvectors, free and forced response, modes of vibration and vibration control and isolation. Mechanical and structural vibrations with applications to rotating machinery and vehicles. Fundamentals of acoustics and the engineering of musical instruments.

ME 115. Dynamics of Machinery and Multi-Body Systems. 3 Units
Prerequisite(s): ENGR 110, ME 105.
Term Typically Offered: Fall, Spring

Kinematic and kinetic analysis of mechanisms. Rigid and flexible multi-body assembly models in two and three dimensions. Use of solid modeling, dynamic analysis and finite element methods. Study of loads on linkages, cams, gears as integral functioning components of machines, ground and space vehicles. Study of forces and moments in machinery under impulsive and impact forces, balancing, and elements of vibration.

ME 116. Machinery Design I. 2 Units
Prerequisite(s): ENGR 112, and ME 37. ENGR 112 and ME 37 may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Introduction to basic design methodology for mechanical systems and devices. Detail design of machine components; application of analytical methods in the design of complex machines. Failure mode analysis, theories of failure, yield, fracture, deflection, and fatigue analysis of machine elements. Design of common machine elements such as bearings and shafts.

ME 117. Machinery Design II. 2 Units
Prerequisite(s): ME 116.
Term Typically Offered: Fall, Spring

Introduction to design of machine components; application of analytical methods in the design of complex machines. Design of common machine elements such as threaded fasteners, springs, flexible drive components, gears, and friction devices. Introduction to stress and deflection analysis using finite element software.

ME 120. Fluid Mechanics for Mechanical Engineers. 3 Units
Prerequisite(s): ENGR110 or concurrent enrollment.
Term Typically Offered: Fall, Spring, Summer

Fundamentals of fluid mechanics, including fluid statics; mass, momentum and energy conservation laws and analysis; inviscid and viscous (laminar, turbulent) flow; pumps, turbines, internal flow in pipes; external flow on moving or submerged objects; dimensional analysis, modeling, applications. Lecture. 3 units.

ME 121. Solar Thermal and Energy Storage Systems. 2 Units
Prerequisite(s): ENGR 124.
Term Typically Offered: Fall, Spring

Study of solar thermal heat and power and energy storage including the characterization, theory, operation, analysis and modeling of solar thermal and energy storage systems.

ME 122. Geothermal and Bioenergy Systems. 2 Units
Prerequisite(s): ENGR 124
Term Typically Offered: Fall, Spring

Study of geothermal and bioenergy systems including the characterization, theory, operation, analysis and modeling.

ME 123. Wind, Hydro and Ocean Energy. 3 Units
Prerequisite(s): ENGR 124 and ME120.
Term Typically Offered: Fall, Spring

Exploring sustainable energy and power generation, through study of wind, hydro and ocean energy systems, including the characterization, theory, operation, analysis, modeling, planning impacts and design process.

ME 126. Heat Transfer. 3 Units
Prerequisite(s): ENGR 124 and ME 120.
Term Typically Offered: Fall, Spring, Summer

Basic principles of heat transfer, including processes of conduction, convection, radiation, evaporation and condensation. Lecture three hours.

ME 126W. Heat Transfer Workshop. 1 Unit
Corequisite(s): ME 126.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of heat transfer to enhance students' understanding of subject matter.
Note: May be repeated for credit.

Credit/No Credit

ME 128. Thermal-Fluid Systems. 3 Units
Prerequisite(s): ME 126 (may be taken concurrently).
Term Typically Offered: Fall, Spring, Summer

Fundamentals of the Otto, Diesel, Brayton and Rankine power cycles, vapor-compression refrigeration, psychrometric processes and chemical reactions. Theory and application of temperature, pressure, flow, and velocity instruments, introduction to experiment design, errors, uncertainty and data acquisition, data analysis and presentation.

ME 129. Power Plant Engineering. 3 Units
Prerequisite(s): Thermodynamics (ENGR 124) and Thermal-Fluid Systems (ME 128). ME 128 may be taken concurrently
Term Typically Offered: Fall, Spring

In this course, the students will be able to understand the fundamentals of power industry, including electricity production, transmission, and distribution. They will also apply their engineering knowledge gained in the fundamental courses to understand and conceptually design various modern power plant technologies for electric power generation and cogeneration, including steam power plants, gas turbines, combined cycles, and nuclear power plants and their components.

ME 132. Solar Energy, Geothermal Energy, and Bioenergy Systems. 3 Units
Prerequisite(s): Thermodynamics (ENGR 124)
Term Typically Offered: Fall, Spring

In this course, the students will study solar energy, geothermal energy, and bioenergy systems. They will apply their engineering knowledge gained in the fundamental courses to design these systems. They will also learn about theoretical foundations, characterization, operation, and environmental impacts of these energy systems.

ME 136. Numerical Control Programming. 3 Units
Prerequisite(s): ME 37 and ME 105; ME 105 may be taken concurrently.
Term Typically Offered: Fall, Spring

Computer programming languages for automated manufacturing, including CNC manual programming, cutter compensation, geometric definition of products, cutting tool definition, continuous path part programming, computation, decision, looping, computer graphics programming and intelligent machines.

ME 137. Product Design for Manufacturing and Automation. 3 Units
Prerequisite(s): ME 117.
Term Typically Offered: Fall, Spring

Various manufacturing and automation aspects of product design, including design for machining, design for automation, applications of CAD/CAM software in product design and automation, and rapid prototyping. Virtual design and manufacturing and agile manufacturing will also be discussed.

ME 138. Concurrent Product and Process Design. 3 Units
Prerequisite(s): ME 37 and ME 116.
Term Typically Offered: Fall, Spring

Manufacturing considerations in product design including: design for manufacturing (DFM), design for assembly (DF A), design to cost (DTC), design to life cycle cost (DTLCC), design for quality and reliability (DFQR); introduction to concurrent engineering. Two hours lecture, three-hour lab.

ME 140. Introduction to Motors and Actuators. 2 Units
Prerequisite(s): ME 172 or EEE 184.
Term Typically Offered: Fall, Spring

Power conversion hardware used in electromechanical systems. Operation and sizing of electric motors, both DC and AC systems, motor controllers, and power electronics; sensors; design in fluid power systems, both pneumatic and hydraulic; and power transmission systems such as ball screws and belt drivers.

ME 141. Introduction to Tolerance Analysis. 2 Units
Prerequisite(s): ME 116
Term Typically Offered: Fall, Spring

Introduction to techniques used in manufacturing tolerance analysis. Assembly tolerance analysis using standard industry practices; application of geometric dimensioning techniques to tolerance analysis; drawing practices for indicating dimensional tolerances; statistical techniques; tolerance allocation. Introduction to computer aided tolerance analysis.

ME 143. Vehicle Dynamics and Design. 3 Units
Prerequisite(s): ENGR 110 and ME 117.
Term Typically Offered: Fall, Spring

Principles and practice in vehicle dynamics and design using computer aided techniques. Design methods for passenger vehicles, SUVs, trucks, motorcycles and space vehicles. Study of tires, drivetrain and gear boxes in ground vehicles. Kinematics and kinetics of mechanisms in two and three dimensions with applications to suspensions, steering mechanisms. Frame design using finite element analysis, power trains, braking, auxiliary systems. Computer dynamic models for analysis of vehicle stability, collisions rollovers, and failure analysis using state-of-the-art software.

ME 145. Vehicle Crash Reconstruction. 3 Units
Prerequisite(s): ENGR 110
Term Typically Offered: Fall, Spring

Study of forensic engineering using state of the art technology. Application of principles of dynamics for forensic investigation and reconstruction of vehicle collisions. Cases involving, cars, motorcycles, bicycles and commercial vehicles. Study of devices that contribute to passenger safety and stability. Analysis of seat belts, airbags, and electrohydraulic stabilizers. Data analysis of Event Data Recorders (EDRs) and verification with real cases using state of the art reconstruction techniques, photogrammetry and the use of computer simulations in two and three dimensions.

ME 151. Fundamentals of Combustion. 3 Units
Term Typically Offered: Fall, Spring

Principles of combustion and pyrolysis of gaseous, liquid, and solid materials. Applications of principles, including analysis and design of stationary and mobile powerplants, waste management, and fire safety.

ME 152. Turbomachinery Design. 3 Units
Prerequisite(s): ME 105.
Term Typically Offered: Fall, Spring

Theoretical analysis of energy transfer between fluid and rotor; principles of axial, mixed, and radial flow compressors and turbines. Applications and computer-aided design of various types of turbomachines.

ME 153. Thermodynamics of Combustion Engines. 3 Units
Prerequisite(s): ENGR 124, ENGR 132, ME 105.
Term Typically Offered: Fall, Spring

Application of thermodynamic and fluid mechanical analysis to various kinds of engines, including those based on Otto, Diesel, Brayton, Rankine, and Stirling cycles. Development of computer models and comparison of cycles in terms of applications to land, marine, and aerospace propulsion.

ME 154. Alternative Energy Systems. 3 Units
Prerequisite(s): ENGR 124.
Term Typically Offered: Fall, Spring

Study of alternative energy technologies, such as renewable fuels, wind, solar, oceanic and geothermal power. Concentration on fundamental thermodynamic principles, modern design features and non-technical aspects of each technology.

ME 155. Gas Dynamics. 3 Units
Prerequisite(s): ME 105.
Term Typically Offered: Fall, Spring

Thermodynamics and mechanics of one-dimensional compressible flow; isentropic flow; normal and oblique shock waves; Prandtl-Meyer flow. Combined effects in one-dimensional compressible flow. Nozzles, diffusers and shock tubes. Computer use in gas dynamics.

ME 156. Heating and Air Conditioning Systems. 3 Units
Prerequisite(s): ENGR 124, ENGR 132.
Term Typically Offered: Fall, Spring

Theory and design of heating, ventilating and air conditioning for industrial and comfort applications. Topics include refrigeration cycles, heating and cooling load calculations, psychrometrics, solar heating and cooling component, and system design.

ME 157. Solar Energy Engineering. 3 Units
Prerequisite(s): ME 126; may be taken concurrently.
Term Typically Offered: Fall, Spring

In-depth study of the basics of solar engineering, including the nature and availability of solar radiation; operation, theory and performance of solar collectors; energy storage and model of solar systems.

ME 159. High Efficiency HVAC. 3 Units
Prerequisite(s): ME 156 or instructor permission.
Term Typically Offered: Fall, Spring

Starts with a review of the theory and design of HVAC systems. Recent improvements and new developments in cooling and heating equipment are studied in detail. Computer models such as the Trane TRACE Program are used to size an HVAC system with an emphasis on high efficiency. Computer based controls and energy management systems are discussed and demonstrated. Field trips to energy efficient installations are included.
Field trip(s) may be required.

ME 164. Introduction to Test Automation. 3 Units
Prerequisite(s): ME 105, ME 117.
Term Typically Offered: Fall, Spring

Basic concepts to automate testing procedures. Introduction to sensors, signal conditioning, sampling theory, design of experiments, data acquisition software, and data reduction techniques. Hands-on experience with PC based data acquisition software and hardware which will be used to create testing programs. Lecture two hours; laboratory three hours.

ME 165. Introduction To Robotics. 3 Units
Prerequisite(s): ME 105, ME 116
Term Typically Offered: Fall, Spring

Fundamentals of design and application of industrial robotics. Manipulator kinematics, trajectory planning and controller design, design of end effectors and actuators, sensors, programming languages, and machine vision. Applications in manufacturing, approach to implementing robotics, economic analysis for robotics. Lecture two hours; laboratory three hours.

ME 171. Modeling and Simulation of Mechatronics and Control Systems. 3 Units
Prerequisite(s): ENGR 110, ME 105.
Term Typically Offered: Fall, Spring, Summer

Computer modeling and mathematical representation of mechanical, electrical, hydraulic, thermal, and electronic systems or combinations of these. Development of system design criteria and solutions using computer simulation. Use of state of the art automated modeling and simulation methods to build models of multi-energy mechatronics and control systems. Vibration concepts, applied, natural frequencies, eigenvectors, and solution of differential equations using computer simulation. Introduction to state variable feedback control systems. A design project is required.

ME 172. Control System Design. 3 Units
Prerequisite(s): ME 171.
Term Typically Offered: Fall, Spring, Summer

Use of mathematical models for the generation of equations of motion for mechanical and electrical systems. Evaluation of single and multiple degrees of freedom systems in the time and frequency domain. Topics include feedback control systems, Laplace transform, state space representation, transfer functions, error analysis, stability of control systems and system response. Automatic control system design using root locus and frequency response methods. Design of compensating controls using state of the art software and automation tools. Introduction to digital control.

ME 173. Applications of Finite Element Analysis. 3 Units
Prerequisite(s): ENGR 112, ME 105.
Term Typically Offered: Fall, Spring

Mathematical fundamentals of Finite Element Modeling (FEA). Engineering analysis and design of structural members, and machinery components using FEA models. Model generation using computer graphics. Computer solutions of static, dynamic, heat transfer, stress analysis, fluid mechanics and structural problems.

ME 176. Product Design & CAD. 3 Units
Prerequisite(s): ENGR 6, ME 105 and ME 116.
Term Typically Offered: Fall, Spring

Digital product development using an integrated CAD system. Philosophy of parametric design. Component and assembly design, basic drawing creation, and simulations. Team product design investigating the effects of variations in geometry, dimensions, and material selection. Lecture two hours; laboratory three hours.

ME 177. Product Design and 3D Parametric Solid Modeling. 3 Units
Prerequisite(s): ENGR 6, ME 105 and ME 116.
Term Typically Offered: Fall, Spring

Introduction to Solid Modeling and its application to mechanical product design. Digital product development using 3D Parametric Solid Modeling tools. Also covers component and assembly design, basic drawing creation. Reverse design project engineering investigating the effects of variations in geometry, dimensions, and material selection. Lecture two hours; laboratory three hours.

ME 180. Mechanical Properties of Materials. 3 Units
Prerequisite(s): ENGR 112
Term Typically Offered: Fall, Spring, Summer

Principles of mechanical properties of metals, including strength under combined loads, fatigue, and fracture mechanics. Laboratory includes study of strengthening mechanisms, and principles of experimental stress analysis. Lecture two hours; Laboratory three hours.

ME 180W. Mechanical Properties of Materials Workshop. 1 Unit
Corequisite(s): ME 180.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of mechanical properties of materials to enhance students' understanding of subject matter.
Credit/No Credit

ME 182. Introduction to Composite Materials. 3 Units
Prerequisite(s): ME 180.
Term Typically Offered: Fall, Spring

Properties, mechanics, and applications of anisotropic fiber-reinforced materials with an emphasis on the considerations and methods used in the design of composite structures.

ME 184. Corrosion and Wear. 3 Units
Prerequisite(s): ME 180.
Term Typically Offered: Fall, Spring

Introduction to the phenomena of corrosion and wear, including the electro-mechanical bases of corrosion, examples of corrosion of iron, steel and stainless steels, and prevention of corrosion. Fundamentals of wear are covered including effects of loads, material properties, and lubrication on wear rates.

ME 186. Fracture Mechanics in Engineering Design. 3 Units
Prerequisite(s): ME 180.
Term Typically Offered: Fall, Spring

Fracture mechanics approach to mechanical design; role of microstructure in fracture toughness and embrittlement; environmentally-induced cracking under monotonic and fatigue loads; laboratory techniques; service failures in various industries and failure mechanisms.

ME 190. Project Engineering I. 3 Units
Prerequisite(s): ME 117
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring, Summer

Beginning of a two semester project; design of a product, device, or apparatus that will be fabricated in ME 191. Students work in small groups, interacting with product users, vendors, technicians, and faculty advisors. Lecture two hours; laboratory three hours.

ME 191. Project Engineering II. 2 Units
Prerequisite(s): ME 190.
Term Typically Offered: Fall, Spring, Summer

Continuation of the project begun in ME 190. Part II consists of fabrication and assembly of equipment, testing and evaluation, and reporting. Seminar one hour; laboratory three hours.

ME 194. Career Development in Mechanical Engineering. 1 Unit
Prerequisite(s): Senior status.
Term Typically Offered: Fall, Spring

Designed for Mechanical Engineering students making career decisions. Instruction will include effective career planning strategies and techniques including skill assessment, employment search strategy, goal setting, time management, interview techniques and resume writing. Lecture one hour.
Note: Units earned can not be used to satisfy major requirements.

Credit/No Credit

ME 195. Professional Practice. 1 - 6 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Credit/No Credit

ME 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Credit/No Credit

ME 196A. Motion and Dynamic Analysis using Solid Modeling. 3 Units
Prerequisite(s): ENGR 6 and ME 117.
Term Typically Offered: Fall, Spring

Practical approach to study of motion and dynamic analysis of machine components and assemblies in two or three dimensions. Uses solid modeling software to analyze the forces, moments and dynamic loads for parts and entire assemblies in motion. Topics include stress and strain during motion, kinematics, kinetics, drop tests in two and three dimensions, frequency analysis, buckling, dynamic fatigue and finite element analysis, time history of motion, harmonics, and vibrations.

ME 196B. Engineering Systems Approach to Product Design. 2 Units
Prerequisite(s): ME 116
Term Typically Offered: Fall, Spring

Study of product design process and formal design methodologies. Various topics in product and system design including creativity, visualizations and communications, human factors, design for X methodology decision science, economics, product design and robust quality design.

ME 196C. Computer Programming for Mechanical Engineering Applications. 2 Units
Prerequisite(s): ME 105
Term Typically Offered: Fall, Spring

Computer programming languages such as C/C++, Java, Processing, and their applications to engineering problem solving using computer graphics, simulations, and physical prototyping. Programming computer communications with microprocessors for controlling sensors and motors.

ME 196D. Ground Vehicle Aerodynamics. 3 Units
Prerequisite(s): ENGR 132
Term Typically Offered: Fall, Spring

Fundamental and applied subjects of aerodynamics for ground vehicle design and performance including flow features, aerodynamic forces, drag reduction strategies, and different methodologies for evaluation of aerodynamic forces and vehicle design. Numerical modeling approaches with experience of running a commercial computational fluid dynamics program. Units: 3 Units (2 Unit Lecture and 1 Unit Lab)

ME 196E. Vehicle Safety and Crash Reconstruction. 3 Units
Term Typically Offered: Fall, Spring

Study of forensic engineering using state of the art technology in vehicles that contribute to passenger safety and stability. Application of principles of dynamics for forensic investigation and reconstruction of vehicle collisions. Study of seat belts, airbags, and electrohydraulic stabilizers. Study of the Event Data Recorders (EDRs), data analysis and verification with real cases using classical reconstruction techniques, and the use of computer simulations in two and three dimensions.

ME 196F. Materials Selection in Engineering Design. 3 Units
Prerequisite(s): ENGR 45 and ME 116. ME 116 may be taken concurrently.
Term Typically Offered: Fall, Spring

Quantitative treatment of materials selection for engineering applications. Discussion of the relationship between design parameters and materials properties. Emphasis on the influence of processing and fabrication on the properties of metals, ceramics, polymers and composites as related to the overall design process. Sustainability, Eco-Design, and manufacturability considerations.

ME 196H. Air Resources Engineering. 2 Units
Prerequisite(s): ENGR 124 and ENGR 132. ENGR 132 may be taken concurrently.
Air quality standards. Stationary and transportation emission sources. Chemical and physical interactions of air pollutants, including greenhouse gases, with the atmosphere. Introduction to air quality modeling, including atmospheric temperature effects due to longwave thermal radiation. Air Quality measurement. Emission control strategies and design. Air resources economics and policy.

ME 196M. Engineering Research Methodology and Communication for Undergraduate Students. 3 Units
Prerequisite(s): ME 108
Term Typically Offered: Fall, Spring, Summer

This course will prepare students for engineering research by introducing them to how to identify, plan, conduct, and present a research project as well as research methods, literature review process, research ethics, writing proposal, writing technical reports, and oral and poster research presentations. The students will be conducting an independent supervised engineering research on an agreed-upon research project. They will refine their communication skills by working one-on-one with the instructor to present their research in a professional setting.

ME 196Q. Ceramic Materials. 3 Units
Prerequisite(s): ENGR 112
Term Typically Offered: Fall, Spring

Fundamentals of structure, processing and properties of engineering ceramics with an emphasis on the relationships between them. Industrial applications for ceramic and glass components along with the processing and materials selection options available for a given material and application. Topics covered include common ceramic structures, thermal and physical properties of ceramics, powder processing, creep resistance and toughening mechanisms, electronic properties of ceramics, and glass forming.

ME 196R. Fundamentals of Physical Metallurgy and Materials. 3 Units
Prerequisite(s): ENGR 112 or equivalent course.
Term Typically Offered: Fall, Spring

Fundamentals of structure, processing and properties of metals and metal alloys with emphasis on relationships between them. Thermodynamics and kinetics of common phase transformations and resulting microstructures and mechanical properties. Slip mechanisms in single crystals, and metallic alloy strengthening mechanisms including grain size, solute, precipitation, cold-work, and martensite. Specific heat treatment and mechanical processing procedures for steel and aluminum alloys as well as application of these processes to other alloy systems.

ME 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work. Admission requires approval of an instructor and the student's advisor. May be repeated for credit.

Credit/No Credit

ME 206. Stochastic Modeling for Engineers. 3 Units
Prerequisite(s): MATH 45 or equivalent.
Term Typically Offered: Fall, Spring

Fundamentals and applications of stochastic processes for engineers, including a review of engineering statistics, autoregression moving average (ARMA) models, characteristics of ARMA models, ARMA modeling and forecasting, and transformation from discrete models to continuous models. Applications of stochastic processes in engineering field, e.g., precision manufacturing, monitoring and diagnosis of machines, tools, and processes, system identification, vibrations, and statistical process control (SPC).

ME 209. Research Methodology. 2 Units
Prerequisite(s): Graduate status in Mechanical Engineering.
Term Typically Offered: Fall, Spring

Research methodology and engineering approach to problem solving. Includes an orientation to the requirements for Master's thesis in Mechanical Engineering. Students will be exposed to a variety of possible thesis topics. Students will be required to complete an essay concerning aspects of engineering research. The student will be required to prepare a presentation and also review other students work.
Note: Graduate Writing Intensive (GWI) course.

ME 233. Intelligent Product Design and Manufacturing. 3 Units
Prerequisite(s): ME 105, ME 138.
Term Typically Offered: Fall, Spring

Application of expert systems, fuzzy logic and neural networks in product design and manufacturing. Concurrent product and process design using expert systems and fuzzy logic. Monitoring tool conditions and manufacturing processes using neural networks so as to achieve high quality, high efficiency, and automation.

ME 236. Computer Controlled Manufacturing Processes. 3 Units
Prerequisite(s): ME 105, ME 138.
Term Typically Offered: Fall, Spring

Applications of logic and motion controls in manufacturing. Computer controlled open and feedback systems. CNC machining processes, CNC programming. Applications of robots in manufacturing, programming for robots. PLC logic controls, sensors and output devices, creating ladder logic diagrams for the PLCs. Design for Manufacturing (DFM) and Design for Assembly (DFA) of modern computer controlled machines.
Note: Lectures as well as some tutorial activities are covered in two 75-minute classes per week.

ME 237. Digital Control of Manufacturing Processes. 3 Units
Prerequisite(s): ME 105, ME 138, MATH 45.
Term Typically Offered: Fall, Spring

Introduction to both the theory and applications of digital control of manufacturing processes, including the discrete controller for manufacturing, digital controlled systems for manufacturing, sensors of control loop for manufacturing, discrete process models for manufacturing, manufacturing system input and response, and stability analysis of manufacturing systems.

ME 238. Automated Inspection. 3 Units
Prerequisite(s): ME 105, ME 138.
Term Typically Offered: Fall, Spring

Introduction to measurement for machine accuracy and process quality including the use of coordinate measuring machines; system considerations and sensor technology in automated visual inspection; applications of pattern recognition in automated inspection.

ME 240. Mechanical Design Analysis. 3 Units
Prerequisite(s): ENGR 201; ENGR 201 may be taken concurrently.
Term Typically Offered: Fall, Spring

Analyzes mechanical designs with respect to strength or deformation criteria. Elastic and inelastic failure criteria, energy methods, effects of temperature, stress concentrations, and fatigue are discussed.

ME 241. Optimum Mechanical Design. 3 Units
Prerequisite(s): ENGR 201; ENGR 201 may be taken concurrently.
Term Typically Offered: Fall, Spring

Mathematical methods of optimum design using linear and non-linear optimization; constrained and unconstrained optimum design. Optimization of mechanical elements and assemblies to meet design requirements, material characteristics and geometry. Numerical methods and computer usage in optimal design. Application of these principles to realistic design problems.

ME 243. Accident Biomechanics Reconstruction. 3 Units
Term Typically Offered: Fall, Spring

Study of the interaction of the human body kinematics and dynamic biomechanics in accidents involving the work place, activities and vehicles. Impact injury mechanisms, response of the human body using computer models and software analysis tools. Biomechanical response to impact, and tolerance levels. Human factors that influence the biomechanical reactions of people with their vehicles and the environment. Photographic and video analysis, computer graphics, and computer simulations. Forensic engineering to determine the dynamic forces that cause injury in different situations.

ME 250. Heat Transfer: Conduction. 3 Units
Prerequisite(s): ME 126, ENGR 202; ENGR 202 may be taken concurrently.
Term Typically Offered: Fall, Spring

Theory and analytical methods in steady-state and transient heat conduction. Development of the differential equations and initial and boundary conditions. Solutions by separation of variables, transforms, finite differences and integral methods. Heat transfer from extended surfaces.

ME 251. Heat Transfer: Convection. 3 Units
Prerequisite(s): ME 126, ENGR 201; ENGR 201 may be taken concurrently.
Term Typically Offered: Fall, Spring

Analyzes convective heat and mass transfer. Development of the Navier-Stokes and energy equations for two-dimensional flows. Boundary layer theory and numerical techniques in solving convection problems. Analyzes turbulence, transport by Reynold's stresses and Prandtl's mixing length theory.

ME 252. Heat Transfer: Radiation. 3 Units
Prerequisite(s): ME 126, ENGR 202.
Term Typically Offered: Fall, Spring

Fundamentals and basic laws of radiative transfer. Properties of surfaces, spectral characteristics and configuration factors. Radiation transfer between surfaces. Absorbing, emitting and scattering media. Combined conduction, convection and radiation. Applications to solar energy systems.

ME 253. Advanced Fluid Mechanics. 3 Units
Prerequisite(s): ENGR 132, graduate status.
Term Typically Offered: Fall, Spring

Analytical and numerical analysis of Navier-Stokes equations for laminar flow; stability of laminar flow and its transition to turbulence. Analyzes stream functions and the velocity potential, and vorticity dynamics. The mathematical analysis of incompressible turbulent flows; development of Reynolds stress equations, turbulent boundary layer equations, turbulent flow in pipes and channels, and turbulent jets and wakes.

ME 255. Advanced Heat Transfer. 3 Units
Term Typically Offered: Fall, Spring

Advanced topics in heat transfer including analytical and numerical solutions to heat conduction equations in both the steady and unsteady state; use of approximate and analytical techniques for the prediction of convective heat transfer in laminar and turbulent flows, heat transfer in high-velocity flows; analysis of the nature of thermal radiation and radiative heat transfer in enclosures.

ME 256. Mechanics and Thermodynamics of Compressible Flow. 3 Units
Prerequisite(s): ENGR 201 or ENGR 202; ENGR 201 or ENGR 202 may be taken concurrently.
Term Typically Offered: Fall, Spring

Application of the laws of fluid mechanics and thermodynamics to problems of compressible flow in two and three dimensions; small perturbation theory, hodograph method and similarity rules for subsonic flow. Method of characteristics, shock wave analysis for steady, unsteady and supersonic, one-dimensional flows.

ME 258. Advanced Thermodynamics. 3 Units
Prerequisite(s): ENGR 202.
Term Typically Offered: Fall, Spring

Advanced topics in thermodynamics including applications of fundamental postulates to chemical, mechanical, magnetic and electric systems, theory of fluctuations, and irreversible thermodynamics.

ME 259. Introduction to Computational Fluid Dynamics. 3 Units
Prerequisite(s): ENGR 132, ME 105 and ME 126.
Term Typically Offered: Fall, Spring

Fundamentals of computational fluid dynamics, modeling of physical processes, including the fluid flow, heat and mass transfer, and computer skills. Basic concepts of numerical analysis using computer, including the solutions of ordinary and partial differential equations. Basic hands-on experience on using commercial computational fluid dynamics software packages.

ME 270. Advanced Computer-Aided Design of Dynamic Systems. 3 Units
Prerequisite(s): ME 114 or ME 171.
Term Typically Offered: Fall, Spring

Computer analysis, synthesis and modeling of physical systems including single and multiple degree of freedom, and linear/nonlinear systems. Use of Computer-Aided Modeling software (CAMP-G) and Advanced Digital Simulation Languages (ADSL). Design and analysis of multi-energy systems using Block Diagrams, Bond Graphs, and state space equation representation. Design of electromagnetic, electro-hydraulic servomechanisms, actuators and driven systems; introduction to multi-variable control of complex systems; stability, controllability, and observability.

ME 272. Finite Element Modeling in Computer-Aided Design. 3 Units
Prerequisite(s): ME 105, ME 173.
Term Typically Offered: Fall, Spring

Finite-element methods in the analysis and optimal design of machine components, structures, and distributed systems. Generation of FEA models using computers. Theoretical and practical application of a finite element code such as PATRAN to the solution of engineering problems. Topics include static and vibration analysis, stress analysis buckling, normal modes, direct and modal frequency response, transient analysis, and heat transfer.

ME 273. Multibody Dynamics of Rigid and Flexible Systems. 3 Units
Prerequisite(s): Graduate standing.
Term Typically Offered: Fall, Spring

Analysis and design of rigid and flexible multi-body assemblies in two and three dimensions with applications to mechanisms, machinery, ground and space vehicles. Kinematic and kinetic analysis in two and three dimensions; impulsive and impact forces; modes of vibration. Use of solid modeling, dynamic analysis and finite element analysis methods.

ME 274. Introduction to Flight Dynamics. 3 Units
Prerequisite(s): MATH 45, ENGR 110.
Term Typically Offered: Fall, Spring

Review of Laplace Transforms, matrix algebra, and aerodynamics. Derivation of aircraft rigid body equations of motion. Linearization of the equation of motion about reference flight (trim) condition, and separation into longitudinal and lateral equations of motion. Determination of aerodynamic stability derivatives and control effectiveness. Trim analysis, static and dynamic stability and control. Aircraft handling qualities and stability augmentation. Simulation of aircraft response to control and atmospheric inputs.

ME 275. Analysis of Aircraft Structures. 3 Units
Prerequisite(s): Graduate standing.
Term Typically Offered: Fall, Spring

Review of structural analysis: elasticity, virtual work and energy methods, torsion of solid sections, bending of plates, columns. Analysis of aircraft structures: materials, structural components of aircraft, airworthiness, airframe loads, fatigue, structural idealization, fuselages, wings.

ME 276. Advanced Vibration Theory. 3 Units
Prerequisite(s): ME 114, ME 171, or CE 166.
Term Typically Offered: Fall, Spring

Advanced study of mechanical and structural vibrations. Discrete and distributed parameter systems with linear and nonlinear characteristics. Variational principle, Lagrange's equation and finite element method. Matrix equation and eigenvalue problems. Modal analysis and modal testing. Stability and control. Theory developed through physical problems.

ME 278. Space Systems Engineering Management. 3 Units
Prerequisite(s): ENGR 110.
Term Typically Offered: Fall, Spring

Systems Engineering approach to plan and direct engineering projects. Emphasizes systems engineering process, requirement design fundamentals, subsystem fundamentals, trade studies, integration, technical reviews, case studies and ethics. Space exploration used as an example; skills applicable to any engineering project. Project-orientated course to plan the design of space and ground vehicles, satellites, airplanes and multidisciplinary subsystems.

ME 280. Advanced Mechanical Properties of Materials. 3 Units
Prerequisite(s): ME 180
Term Typically Offered: Fall, Spring

Mechanical properties of materials, with special attention to dislocations/defects and deformation and fracture control mechanisms. Mechanical properties of conventional engineering materials as well as advanced materials such as nanostructured materials are considered. Effects of defects on mechanical behavior at ambient and elevated temperature are discussed with attention given to strengthening mechanisms, creep, fatigue and fracture.

ME 285. Materials for Extreme Environments. 3 Units
Prerequisite(s): ME 180 or PHYS 110
Term Typically Offered: Fall, Spring

Comprehensive study of material applications in extreme environments, with special attention to mechanical, thermal and electronic behavior. Extreme temperature, pressure. corrosive or toxic environments and high rate deformation are considered. Currently available materials as well as emerging materials are explored for specific applications such as undersea, outer space, ballistic, nuclear, combustion, and other extreme application arenas.

ME 295. Fieldwork. 1 - 3 Units
Prerequisite(s): Permission of Graduate Coordinator or Department Chair.
Term Typically Offered: Fall, Spring

Supervised employment in industry or government that provides practical work experience. Requires satisfactory completion of the work assignment and a written report.
Note: Units may not be applied toward meeting the 30-unit requirement of the degree.

Credit/No Credit

ME 296L. Creative Engineering Design for Quality Products. 3 Units
Prerequisite(s): ME 138 and ME 180.
Term Typically Offered: Fall, Spring

Introduction to analytical and systematic design methodologies in creative and quality product design. Topics include product design process, creative conceptual design tools such as axiomatic design, theory of inventive problem solving (TRIZ), and engineering decision making. Quality product design including design of experiments, robust design techniques, and design optimization. Assignments include application of these principals to solving open-ended design problems using computing tools. Two hour lecture; Three hour laboratory.

ME 296M. Space Mission Design and Analyses. 3 Units
Term Typically Offered: Fall, Spring

This course examines the methods of systems design and analyses required to design and optimize the space mission over its life cycle. The process of optimization covers all the major elements of a space mission such as the ground systems, launch vehicles, spacecraft/payload, space environment, in-orbit operation and maintenance, and end-of-life disposal. The optimization of the overall mission must balance between performance, cost and reliability of all the major elements.

ME 296O. Advanced Heat Transfer. 3 Units
Prerequisite(s): ME 126 and ENGR 202.
Corequisite(s): ENGR 202.
Term Typically Offered: Fall, Spring

Advanced topics in heat transfer including analytical and numerical solutions to heat conduction equations in both the steady and unsteady state; use of approximate and analytical techniques for the prediction of convective heat transfer in laminar and turbulent flows, heat transfer in high-velocity flows; analysis of the nature of thermal radiation and radiative heat transfer in enclosures.

ME 296P. Advanced Dynamics. 3 Units
Prerequisite(s): Graduate Standing
Term Typically Offered: Fall, Spring

Newtonian mechanics: Newton's laws, impulse and momentum, work and energy. Analytical mechanics: Degrees of freedom, generalized coordinates, constraints. Lagrange multipliers, principles of virtual work, D'Alembert's principle, Hamilton's principle, Lagrange's equation of motion. Rotating reference frames. Rigid body dynamics: kinematics, linear and angular momentum, and kinetic energy of a rigid body, principle axes, equations of motion. Euler angles. Behavior of dynamic systems: motion about equilibrium points, stability, Lyapunov's direct method. Perturbation techniques: secular terms, Lindstedt's method, Duffing's equation.

ME 296Q. Advanced Solid Modeling. 3 Units
Prerequisite(s): Student must pass ME 116.
Term Typically Offered: Fall, Spring

Advanced topics in computer-aided design for mechanical product design. Reviews on fundamental part and assembly modeling, and engineering drawings. Advanced modeling topics such as surface modeling, top-down assembly, macros and API programming, manufacturing oriented design such as sheet metal, plastic and mold design.

ME 296S. Advanced CAD for Aerospace Applications. 3 Units
Term Typically Offered: Fall, Spring

Design of aerospace systems including profile definition, constraints, operations and visualizations, component design, transformation features, and insertions using advanced CAD software such as CATIA. Creation of complete assembly design including creation of product files, identifying, inserting and displacing components, constraining parts, numbering parts and scene creation. Specifics of sheet metal design for aerospace design including creation of flange, cut-out, joggle, holes, stampings and patterns.

ME 296U. Advanced Computer-Aided Product Design. 3 Units
Prerequisite(s): ENGR 6 and ME 116, or graduate-level status
Term Typically Offered: Fall, Spring

Advanced topics in computer-aided design and applications for mechanical product design. Reviews of fundamental parts, assembly modeling, and engineering drawings. Advanced modeling topics such as surface modeling, design for manufacturing, simulation-based design, top-down assembly, macros and API programming.

ME 296V. Advanced Control System Design. 3 Units
Prerequisite(s): ME 172
Design of Multi-Input/Multi-Output controllers using linear quadratic regulator method and advanced controls architectures. Architectures include Proportional, Proportional Integrator and Proportional Integrator Derivative (filter) schemes. The course also includes Digital Control, Optimal Control, Introduction to Guidance, Navigation and Control techniques.

ME 296W. Accident Biomechanics. 3 Units
Prerequisite(s): ENGR 110
Study of the interaction of human body kinematics and dynamic biomechanics in accidents involving human activities and vehicles. Impact injury mechanisms, response of the human body using computer models and software analysis tools. Biomechanical response to impact, and tolerance levels. Human factors that influence the biomechanical reactions of people with their vehicles and the environment. Photographic and video analysis, computer graphics, and computer simulations. Forensic engineering to determine the dynamic forces that cause injury in different situations.

ME 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Any properly qualified student who wishes to pursue a problem of his/her own choice may do so if the proposed subject is acceptable to the faculty member with whom he/she works and to his/her advisor.
Credit/No Credit

ME 500. Master's Thesis. 1 - 6 Units
Prerequisite(s): Open to students who have advanced to candidacy and have secured approval of a Thesis proposal form one full semester prior to registration.
Term Typically Offered: Fall, Spring

Completion of a thesis. Credit given upon successful completion of a Master's Thesis (4 - 6 units; maximum 6 units).
Note: Course may be repeated for no more than 6 units total.

Blended BS/MS in Mechanical Engineering Program

Total units required for Blended BS/MS: 150

Program Description

The Blended BS/MS program in Mechanical Engineering allows qualified students in the BS degree program to simultaneously complete requirements for both the BS and MS degree. Students in the program can progress from undergraduate to graduate status without applying for admission through the Office of Graduate Studies.

Eligibility Requirements

Students majoring in Mechanical Engineering will be eligible to apply to the program if they meet the following criteria:

- Completion of the WPJ or equivalent, eligible for WI course, and completion of the prerequisites for ME 190 (Project Engineering I);
- Have not yet enrolled in ME 190;
- Are not double majoring; and
- Have a minimum GPA in major courses of 3.00.

Application Procedures

Students interested in applying to the Blended BS/MS Program should follow the following procedure:

- Prior to the tenth week during the semester before taking ME 190, students must complete the department application.
- Applicants do not need to pay the graduate program application fee.
- Electronic applications will be submitted to the ME Graduate Coordinator for review.
- Upon acceptance to the program, the department will notify the Registrar's Office and the Office of Graduate Studies in the change in status of the student.

Program of Study

In the two semesters of their senior year, students admitted to the program will be required to take the following graduate classes:

- ME 209 Research Methodology (2 units)
- Two graduate-level courses (200 level) in Mechanical Engineering selected in consultation with the Graduate Coordinator (3 units each)

When the students have completed the core courses for the undergraduate program and have completed the 8 units of graduate courses listed above, they will be converted to graduate status and the BS degree can be awarded. Students will be eligible to receive the MS degree when the remaining requirements for the graduate degree are completed (i.e., the requirements for the MS degree are the same whether taken separately or blended).

During their first semester in graduate status, students will be required to submit a thesis proposal to the ME department and to apply for advancement to candidacy.

Opt-Out Option

Students who wish to opt out after completing all other BS major requirements except the 6 units of ME electives may do so and the two graduate courses will count as two of the electives required in the normal undergraduate program. The total number of units taken for the BS degree will be the same (122 units) as for students who are not in the blended program.

BS in Mechanical Engineering

Units required for Pre-Major: 42 plus GE/GR courses
Units required for Major: 50 plus GE/GR courses
Total units required for BS: 122

Program Description

Sequence of Study: Courses taken in the Freshman and Sophomore years, either at Sacramento State, or at a Community College or transfer college, directly contribute to the upper division (Junior-Senior) program. For example, upper division work in Computer-Aided Design (CAD) develops skills introduced in freshman graphics and CAD courses; upper division analytical courses depend on the freshman and sophomore calculus and physics courses. Communication skills learned in the lower division are developed through the writing of reports and oral presentations.

Mechanical Engineering design involves far more than solving the types of problems found in chemistry, physics, and calculus courses; design work involves a large measure of analytical and creative work. The principles of mathematics and science are extremely useful when developing a detailed design solution but contribute little to the critical issues of correctly defining the problem, specifying the solution, and locating and organizing needed information. In addition, the design cannot violate fundamental physical laws and must be built from real materials using real manufacturing methods at a reasonable cost while satisfying safety and environmental factors.

The work in the four semester design-project sequence and other courses addresses these issues by including the study of design methods, procedures for developing a design solution from concept through a fully-developed design, and construction of a prototype. The courses in mechanics, thermodynamics, manufacturing, and materials complement the design sequence. The design work includes a mixture of problem and project work in individual courses; some of the course-level projects are team projects to help the student develop the ability to efficiently and effectively work with other engineers making decisions, use the abilities of different colleagues, and distribute the work of large projects. The design sequence includes classical as well as computer aided design and analysis techniques. The work in the two-semester, capstone and senior project sequence involves team effort on a significant design problem. Students interested in furthering their skills in analysis, including finite element analysis, and dynamic modeling of systems, can choose from a number of elective courses which rely heavily on computer methods.

Advising: Each student has a faculty advisor who meets with him/her at least once a semester to discuss academic progress, plan the following semester, explain University requirements, and answer questions about the Mechanical Engineering program.

Note: Students graduating with a BS in Mechanical Engineering will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Minimum Grade Requirement

A grade of 'C-' or better is required in all courses applied to a Mechanical Engineering major.

Program Requirements

Code	Title	Units
Required Lower Division Courses (Pre-Major) (62 Units) [1]		
First Semester Freshman Year		
CHEM 1E	General Chemistry for Engineering	4
ENGR 6	Engineering Graphics and CADD (Computer Aided Drafting and Design) [2]	3
MATH 30	Calculus I [2]	4
Select one General Education course		3
Second Semester Freshman Year		
MATH 31	Calculus II [2]	4
ME 37	Manufacturing Processes	3
PHYS 11A	General Physics: Mechanics [2]	4
Select one General Education course		3
First Semester Sophomore Year		
ENGR 45	Engineering Materials	3
MATH 32	Calculus III	4
PHYS 11C	General Physics: Electricity and Magnetism [2]	4
Select one General Education course		3

Select one General Education/Graduation Requirement Course		3
Second Semester Sophomore Year		
ENGR 17	Introductory Circuit Analysis	3
ENGR 30	Analytic Mechanics: Statics	3
MATH 45	Differential Equations for Science and Engineering	3
ME 76	Programming and Problem Solving in Engineering	2
Select two General Education courses		6
Required Upper Division Courses (Major) (60 Units) [3]		
First Semester Junior Year		
ENGR 110	Analytic Mechanics - Dynamics	3
ENGR 112	Mechanics Of Materials	3
ENGR 124	Thermodynamics	3
ME 106	Applications of Programming in Mechanical Engineering	1
ME 108	Professional Topics for Mechanical Engineers	2
ME 116	Machinery Design I	2
ME 120	Fluid Mechanics for Mechanical Engineers	3
Second Semester Junior Year		
ME 117	Machinery Design II	2
ME 138	Concurrent Product and Process Design	3
ME 171	Modeling and Simulation of Mechatronics and Control Systems	3
ME 180	Mechanical Properties of Materials	3
Select one General Education Course		3
First Semester Senior Year		
ME 126	Heat Transfer	3
ME 128	Thermal-Fluid Systems	3
ME 172	Control System Design	3
ME 190	Project Engineering I [2]	3
Select one General Education course		3
Second Semester Senior Year		
ME 191	Project Engineering II [2]	2
Select two General Education courses		6
Select two of the following: [4]		6
ME 114	Vibrations	
ME 115	Dynamics of Machinery and Multi-Body Systems	
ME 121	Solar Thermal and Energy Storage Systems	
ME 122	Geothermal and Bioenergy Systems	
ME 123	Wind, Hydro and Ocean Energy	
ME 136	Numerical Control Programming	
ME 137	Product Design for Manufacturing and Automation	
ME 140	Introduction to Motors and Actuators	
ME 141	Introduction to Tolerance Analysis	
ME 143	Vehicle Dynamics and Design	
ME 151	Fundamentals of Combustion	
ME 152	Turbomachinery Design	
ME 153	Thermodynamics of Combustion Engines	
ME 154	Alternative Energy Systems	
ME 155	Gas Dynamics	
ME 156	Heating and Air Conditioning Systems	
ME 157	Solar Energy Engineering	
ME 159	High Efficiency HVAC	
ME 164	Introduction to Test Automation	
ME 165	Introduction To Robotics	
ME 173	Applications of Finite Element Analysis	
ME 176	Product Design & CAD	
ME 177	Product Design and 3D Parametric Solid Modeling	
ME 182	Introduction to Composite Materials	
ME 184	Corrosion and Wear	
ME 186	Fracture Mechanics in Engineering Design	
Total Units		122

1. Lower division requirements are essentially common for Civil, Electrical and Electronic, and Mechanical Engineering.
Note: Courses are listed in a recommended sequence, and may be interchanged among semesters to accommodate the student's schedule, as long as prerequisites are met.
2. Course also satisfies General Education (GE)/Graduation Requirement.
Note: A second year foreign language course may also satisfy 3 units of GE when the course is being taken to comply with the Sacramento State foreign language requirement. Students should consult with an advisor for exact GE eligibility of these courses.
3. Students are allowed to enroll in upper division Engineering or Mechanical Engineering courses with the Department's approval. Pre-Major students must complete a Change of Major form and submit it to the Mechanical Engineering Department Office during the application filing period.
4. An upper division course in Engineering, Mathematics, and Science may be selected with prior approval of the student's advisor.
Note: All elective courses are NOT offered every semester. The Mechanical Engineering Department Office maintains a listing showing when particular courses will be offered.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5 [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]		0
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area Course C		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3

Area D Course	3
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development	
Area E Course [2]	0
Total Units	36

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/ **Note:** Students with a declared major of BS in Mechanical Engineering are exempt from the Foreign Language Graduation Requirement.

MS in Mechanical Engineering

Total units required for MS: 30

Program Description

The Master of Science program in Mechanical Engineering prepares students for leadership in the practice of Mechanical Engineering. The program includes the study of scientific and technical principles underlying modern engineering practice and advanced mathematical techniques needed for their application in research and design.

Specializations

Four areas are offered as specializations: Design and Dynamic Systems; Manufacturing and Material Engineering; Thermal and Fluids Systems; and Aerospace Systems. In each area there are specific course requirements to be met; all four specializations encompass Engineering Design.

Elective courses allow for the development of each student's particular interests. An individual's applied research or design study, presented in a Master's thesis or project, complements the formal class work and completes the program.

Admission Requirements

Admission as a classified graduate student in Mechanical Engineering requires:

- a Bachelor of Science degree in Mechanical Engineering, or equivalent;
- a minimum GPA of 3.0 in the last 60 semester or 90 quarter units of BS Degree; and
- English Language Requirement (for foreign students or domestic students with foreign documents).

Applicants who do not meet the three admission requirements listed above because they have a Baccalaureate degree in a field other than Mechanical Engineering, or equivalent, and/or because their GPA is below 3.0 but above 2.5 in the last 60 semester or 90 quarter units of BS Degree, may be admitted with conditionally classified status. Any deficiencies will be noted in a written response to the applicant.

If a student lacks some of the undergraduate courses needed for successful completion of the graduate program, such prerequisite courses must be taken before the student can be fully accepted to the program.

Admission Procedures

Applications are accepted as long as space for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- Online application for admission (CalStateApply or equivalent);
- one set of official transcripts from all colleges and universities attended *other than Sacramento State*; and
- English Language Requirement (for foreign students or domestic students with foreign documents).

For more admissions information and application deadlines, please visit the Office of Graduate Studies website (http://csus.edu/gradstudies/).

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed.

Minimum Units and Grade Requirement for the Degree

Units Required for the MS: 30

Minimum Cumulative GPA: 3.0. Up to six units of grade 'C' or better may be credited toward fulfillment of the requirements for the master's degree. All other graded units must be completed with a grade of 'B' or better. Grades of 'C-', 'D', 'F', 'WU', 'I', 'W' and 'NC' may not be used to fulfill any MS degree requirements.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including ME 209 (2 units) and at least 7 other units at the 200 level. Note: For our program completion of ME 209 with a grade of 'B' or above satisfies the Graduate Writing Assessment Requirement (GWAR); and
- obtained approval of a thesis/project topic using the Department of Mechanical Engineering Master's Thesis/Project Approval Form.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a faculty advisor. After approval by the Mechanical Engineering Graduate Coordinator, the form is then returned to the Office of Graduate Studies for approval.

Notes:

- The student cannot register for the culminating experience (ME 500), until he/she has been advanced to candidacy. One full semester prior to registering for (ME 500), the student must submit a proposed topic from to the Department office.
- The Thesis Committee consists of the student's Thesis Advisor, who is the Chairperson of the Thesis Committee, and another faculty member who serves as the second advisor.
- Advising: The Department of Mechanical Engineering has a Graduate Coordinator who is the liaison between each graduate student and the Office of Graduate Studies. After Advancing to Candidacy (see above), the student proceeds with research for the thesis. Guidance of this phase of study is done by a faculty member with expertise in the particular thesis topic.

Program Requirements

Code	Title	Units
Required Core Courses (8 Units)		**8**
ENGR 201	Engineering Analysis I	3
ENGR 202	Engineering Analysis II	3
or ME 206	Stochastic Modeling for Engineers	
ME 209	Research Methodology ✎	2
Additional Requirements for Suggested Specializations (9 Units)		
Select at least three courses with advisor approval to develop a focus area of study		9
Aerospace Systems		
Design and Dynamic Systems		
Manufacturing and Materials Engineering		
Thermal and Fluid Systems		
Electives (7-9 Units)		
Select 7-9 units [1]		7 - 9
Culminating Requirement (4-6 Units)		
Select 4-6 units [2]		4 - 6
Total Units		30-32

[1] Selected in consultation with advisor. May include two undergraduate courses.

[2] Master's Thesis (4-6 units) program consists of the following minimum requirements:
Core courses (8 units)
Specialty Area (9 units)
Electives (7-9 units)
ME 500 (4-6 units)

Thesis Defense/Presentation: The Thesis must be orally presented and defended, approved by the student's Thesis Committee and approved by the ME Graduate Coordinator or the Department Chair prior to submittal of the thesis to the Office of Graduate Studies.

Additional Requirements for Suggested Specializations

Note: With advisor approval select at least **three** courses to develop a focus area of study.

Specialization - Aerospace Systems

This area focuses on the design of aerospace systems. Classical and computer-aided techniques are studied to provide a strong background in mechanical design theory and practice. Industrial software tools are used to perform finite-element modeling, dynamic system analysis, and optimum design.

Code	Title	Units
ME 241	Optimum Mechanical Design	3
ME 253	Advanced Fluid Mechanics	3
ME 259	Introduction to Computational Fluid Dynamics	3
ME 270	Advanced Computer-Aided Design of Dynamic Systems	3
ME 272	Finite Element Modeling in Computer-Aided Design	3
ME 274	Introduction to Flight Dynamics	3
ME 275	Analysis of Aircraft Structures	3
ME 278	Space Systems Engineering Management	3
ME 285	Materials for Extreme Environments	3

Or other courses selected in consultation with an advisor.

Specialization - Design and Dynamic Systems

This area focuses on the design of products and on the manufacturing systems needed for their production. Classical and computer-aided techniques are studied to provide a strong background in mechanical design theory and practice. Industrial software tools are used to perform finite-element modeling, dynamic system analysis, and optimum design.

Code	Title	Units
ME 240	Mechanical Design Analysis	3
ME 241	Optimum Mechanical Design	3
ME 243	Accident Biomechanics Reconstruction	3
ME 270	Advanced Computer-Aided Design of Dynamic Systems	3
ME 272	Finite Element Modeling in Computer-Aided Design	3
ME 273	Multibody Dynamics of Rigid and Flexible Systems	3
ME 276	Advanced Vibration Theory	3
ME 278	Space Systems Engineering Management	3

Or other courses selected in consultation with an advisor.

Specialization - Manufacturing and Materials Engineering

This area includes the use of mathematical methods as well as current computer techniques to solve problems encountered in planning, designing, and/or controlling manufacturing systems. Study of the techniques for product design and Manufacturing, Neural Networks, Artificial Intelligence, and Industrial Management is conducted. This area also focuses on the design of products and on the manufacturing systems needed for their production. Classical and computer-aided techniques are studied to provide a strong background in mechanical design theory and practice. Industrial software tools are used to perform finite-element modeling, dynamic system analysis, and optimum design.

Code	Title	Units
ME 233	Intelligent Product Design and Manufacturing	3
ME 236	Computer Controlled Manufacturing Processes	3
ME 237	Digital Control of Manufacturing Processes	3
ME 238	Automated Inspection	3
ME 240	Mechanical Design Analysis	3
ME 280	Advanced Mechanical Properties of Materials	3
ME 285	Materials for Extreme Environments	3

Or other courses selected in consultation with an advisor.

Specialization - Thermal and Fluid Systems

This area concentrates on the principles of thermodynamics, heat transfer, and fluid mechanics as applied to such products as heat exchangers, internal combustion engines, gas turbines, and solar energy systems. Courses make use of computational fluid dynamics (CFD) and finite element analysis (FEA) software tools to explore the behavior of a variety of thermal energy conversion systems and components. In this area of interest, innovative system design is becoming more important as progress is made toward increasing the efficiency of thermal systems while reducing the adverse effects on the environment.

Code	Title	Units
ME 253	Advanced Fluid Mechanics	3
ME 255	Advanced Heat Transfer	3
ME 256	Mechanics and Thermodynamics of Compressible Flow	3
ME 258	Advanced Thermodynamics	3
ME 259	Introduction to Computational Fluid Dynamics	3

Or other courses selected in consultation with an advisor.

College of Health and Human Services

The **College of Health and Human Services** at Sacramento State has a long and proud history of providing the region with health and human services professionals that are leaders in the region through their innovation, engagement, and impact. The College plays important roles in addressing the workforce needs of the region, in community engagement, and in research that matters. With over 40,000 alumni from the College, chances are that if you interact with a nurse, a social worker, or a police officer in the region, they are a Sac State alum. With over 7,300 student majors, making it the largest college on campus, the programs offered in the College continue to be in high demand. The faculty and staff are committed to student success, which is one of the primary values of our mission.

The College of Health and Human Services has eight departments including the **Department of Communication Sciences and Disorders**, the **Division of Criminal Justice**, the **Department of Kinesiology**, the **School of Nursing**, the **Department of Physical Therapy**, the **Department of Public Health**, the **Department of Recreation, Parks and Tourism Administration**, and the **Division of Social Work**. Within each of these departments there are a number of programs for students to choose from: 15 of these programs are externally accredited by professional accrediting associations. In addition, the College is the home for seven centers including the Center for Health Practice, Policy & Research, the Student Success Center, and ten community clinics.

The College operates the Maryjane Rees Language, Speech and Hearing Center which treats over 950 clients each year with speech and hearing disorders. The College also operates The Center for African Peace and Conflict Resolution (CAPCR) which provides education and training, research, and direct services pertaining to mediation, negotiation, and arbitration. With the addition of new space in Folsom Hall, the College of Health and Human Services has established a Center for Health Practice, Policy & Research. This is the site of the College's School of Nursing with, state-of-the-art teaching/research facilities including skills labs and a number of high-fidelity simulation labs. The Doctoral Program in Physical Therapy and the Department of Communication Science and Disorders have also moved into new research and teaching laboratories in Folsom Hall.

The College faculty are recognized for their expertise as teachers, scholars, and practitioners. They serve as professional role-models for students and are actively involved in the life of the surrounding community and their professional organizations. The College faculty and staff are also committed to the values of student success, community engagement, diversity and inclusion, leadership, professional ethics, excellence, social responsibility, and collaboration.

In summary, the College of Health and Human Services provides quality academic programs that educate and empower students, serve and enrich diverse communities, promotes well-being, and inform policy and best practices.

Departments/Programs

Programs of instruction leading to the following degrees offered by the College are listed in this catalog in separate sections.

- Communication Sciences and Disorders, BS, MS, AuD
- Criminal Justice, BS, Minor, MS
- Health Science, BS, Minor, MPH
- Kinesiology, BS, Minor, MS
- Nursing, BS, MS
- Physical Therapy, DPT
- Recreation, Parks, and Tourism Administration, BS, Minor, MS, Certificates
- Social Work, BA, Minor, MSW

Contact Information

Robin Carter, Interim Dean
Mary Maguire, Associate Dean
Greg Shaw, Associate Dean
Amanda Haddan, College Budget Analyst

Christine Kellermann, Administrative Analyst/Specialist
Raquel Dagnino, Administrative Support Coordinator
Katheryn Hughes, Administrative Support Coordinator
Carl Kelly, Information Technology Consultant
Andrew Stiffler, Information Technology Consultant

Raquel Quirarte, Student Service Professional

Scarlette Charles, Administrative Support Assistant

For more information, visit the Web site for the College of Health & Human Services (https://www.csus.edu/college/health-human-services/).
HHS on Twitter (https://twitter.com/hhssacstate/)
HHS on Facebook (https://www.facebook.com/csus.chhs/)
Solano Hall 5002
(916) 278-7255

BS in Health Science

Units required for Major: 54-56
Total units required for BS: 120

Program Description

The Bachelor of Science program in Health Science prepares students for a variety of roles within the allied health professions. The curriculum integrates coursework from disciplines across the University to provide students with a broad foundation of knowledge and skills related to life sciences, social sciences, communications, health ecology, public service, ethical practice, and data analysis.

The curriculum is designed to provide students with the necessary prerequisite courses to pursue careers or training in clinical or non-clinical practice professions after graduation, such as Occupational Therapy, Nursing, Physician Assistance, or Public Health. The curriculum also prepares students to transition to clinical majors at Sacramento State if they wish. Students have the flexibility to select a program of study that suits their career goals within the allied health professions.

Note: Students graduating with a BS in Health Science will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Minimum Grade Requirement

All courses must be completed with at least a 'C' grade.

Additional Information

Repeat Policy: Health Science majors and minors can only repeat Health Science courses one time if they receive less than a 'C.' Students must meet with their academic advisor before petitioning the department to repeat the course. Refer to the Repeat Policy section of the Sacramento State Catalog for additional information.

Credit by Examination: A student who seeks course credit by examination is to enroll in the course to be challenged. No course may be challenged after the first two weeks of the semester. The instructor of the course will conduct an assessment of the student's readiness for the challenge for credit examination. Refer to Credit by Examination section of the Sacramento State Catalog.

Advising: It will be necessary to work very closely with an advisor to complete the BS degree in a timely manner. Therefore, it is strongly recommended that all Health Science students consult with an advisor prior to enrollment for any course. This procedure should be followed each semester.

Program Requirements

Code	Title	Units
Required Lower Division Courses (25-27 Units)		
BIO 10	Basic Biological Concepts	3 - 5
or BIO 2	Cells, Molecules and Genes	
BIO 25 & BIO 26	Human Anatomy and Physiology I Human Anatomy and Physiology II	8
CHEM 6A	Introduction to General Chemistry [1, 2]	5
or CHEM 1A	General Chemistry I	
PUBH 50	Healthy Lifestyles	3
or NUFD 10	Nutrition And Wellness	
PSYC 2	Introductory Psychology	3
or SOC 1	Principles of Sociology	
STAT 1	Introduction to Statistics [1]	3
or STAT 10B	Introductory Statistics with Developmental Mathematics	
Required Upper Division Courses (15 Units)		
PUBH 114	Human Ecology and Health	3
PUBH 122	Health Psychology	3
HHS 160	Senior Seminar: Health Science Careers, Policy, and Research	3
Select one course from the following courses on Aging: (3 units)		*3*
GERO 121	Strategies for Optimal Aging	
GERO 100	Aging Issues in Contemporary America	
GERO 122	Managing Disorders in Elders	
PUBH 150	Aging and Health	
KINS 136	Sport And Aging	
GERO 101	Elder Care Continuum Services and Strategies	
Select one course from the following courses on Ethical Practices: (3 units)		*3*
PUBH 151	Introduction to the U.S. Healthcare System	
PHIL 102	Professional and Public Service Ethics	
PHIL 104	Bioethics	
PHIL 105	Science and Human Values	
SWRK 151	Health Services and Systems	
Required Health Science Electives (14 Units)		
Choose 14 units from the following elective courses:		14
BIO 39	Microbiology for Allied Health Students	
BIO 104	Physiology of Human Reproduction	
BIO 123	Neuroanatomy	
BIO 130	Histology	
BIO 131	Systemic Physiology	
BIO 140	Medical Microbiology and Emerging Infectious Diseases	
CHDV 30	Human Development	
GERO 103	Applied Care Management in Gerontological Practice	
NUFD 113	Nutrition And Metabolism	
NURS 14	Pharmacology	

PHYS 182	Physics of Sports	
PSYC 149	Psychology of Adolescence	
PSYC 168	Abnormal Psychology	
RPTA 106	Introduction to Inclusive Recreation and Recreation Therapy	
Total Units		54-56

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Any 4 or 5 unit lecture-based Chemistry course

Note: Health Science courses depend upon concentration, permission of the faculty advisor, program coordinator, and department chair.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5 [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area Course C		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		39

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Health Science (Occupational Health and Safety), BS in Health Science (Health Care Administration), or BS in Health Science (Community Health Education) are exempt from the Foreign Language Graduation Requirement.

Communication Sciences and Disorders

College of Health and Human Services

Program Description

The fields of Speech-Language Pathology and Audiology are concerned with disorders of speech, language, communication, swallowing, and hearing. A Speech-Language Pathologist is trained to diagnose and treat language, speech, swallowing and cognitive disorders. An Audiologist is trained to identify impairments and dysfunction of auditory, balance, and other related systems.

The Department offers a Bachelor of Science degree in Communication Sciences and Disorders and a Master of Science degree in Communication Sciences and Disorders. The Bachelor of Science degree provides a background in the theoretical and clinical foundations of Speech-Language Pathology and Audiology. The Master's degree provides professional training for a career in Speech-Language Pathology. The Department also offers a Second Bachelor of Science degree in Communication Sciences and Disorders through the College of Continuing Education.

Employment as a Speech-Language Pathologist in California requires both a Master's degree and a credential or license. Completion of the Master's degree provides the training necessary for students to qualify for the American Speech-Language-Hearing Association's Certificate of Clinical Competence in Speech-Language Pathology, California

State License as a Speech-Language Pathologist and the Speech-Language Pathology Services Credential for working as a Speech-Language Pathologist in the California public schools. The Department also prepares students to apply for the Special Class Authorization, an extension of the Speech-Language Pathology Services Credential, required to teach a classroom for children with language disorders. Employment as an Audiologist requires a clinical doctorate of Audiology (AuD) and appropriate certification.

The broad, yet challenging, nature of the Bachelor's degree in Communication Sciences and Disorders prepares students to apply for graduate study in the fields of speech-language pathology and audiology and for employment requiring a background in human development, communication, health, and education. Graduates have pursued further education and work in the fields of special education, counseling, and rehabilitation, as well as careers in the health insurance industry, disability law, career advising, and government health programs.

Degree Programs

BS in Communication Sciences and Disorders (p. 641)

Doctor of Audiology (Au.D.) (p. 643)

MS in Communication Sciences and Disorders (p. 646)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges Senior College and University Commission (WSCUC), the Master of Science program in Communication Sciences and Disorders at California State University, Sacramento is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association, 2200 Research Boulevard #310, Rockville, Maryland 20850, 800-498-2071 or 301-296-5700. Current period of 8 years beginning December 1, 2011 through November 30, 2019.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

- The Bachelor's degree program in Communication Sciences and Disorders is accredited by the Western Association of Schools and Colleges (WASC).
- Graduate students pursuing a degree in Communication Sciences and Disorders in the Department of Speech-Language Pathology and Audiology participate in supervised clinical practica through the campus-based Maryjane Rees Language, Speech, and Hearing Center.
- Graduate practica in Communication Sciences and Disorders include three semesters of on-campus clinic followed by an internship in the public schools and an internship in local hospitals or other agencies. Upon completion of the Master's degree, students will have acquired a variety of supervised clinical experiences totaling a minimum of 388 clock hours.
- The Master's degree program in Communication Sciences and Disorders is accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association (ASHA).
- The Speech-Language Pathology Services Credential with or without Special Class Authorization is approved by the California Commission on Teacher Credentialing (CCTC).

Career Possibilities

Please note that most of the career possibilities listed below require additional education beyond the baccalaureate degree.

Speech-Language Pathology Assistant (SLPA) · Speech-Language Pathologist in medical, school and private practice settings · Speech-Language Pathologist with Special Class Authorization to teach a classroom of communicatively disabled children · Audiologist · Employment requiring a background in human development, communication, health, and education · Fields of audiology, special education, counseling, rehabilitation, the health insurance industry, disability law, career advising, hospital administration, school administration and government health programs.

Contact Information

Robert Pieretti, Department Chair
David Gleason, Administrative Support Coordinator
Folsom Hall 2400
http://www.csus.edu/hhs/csad/

Faculty

D'ANGELO, LISA

DAVIS, TONIA

GAETA, LAURA

HAGGE, DARLA

PATTERSON, AISHAH

PIERETTI, ROBERT

ROSEBERRY-MCKIBBIN, CELESTE

THOMPSON, HEATHER

CSAD 110. Physics of Sound and Phonetics. 4 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, and STAT 1
Corequisite(s): CSAD 111
Term Typically Offered: Fall only

Physical production, acoustic characteristics of sounds of speech. International Phonetic Alphabet as applied to speech sounds; practice in phonetic transcription of dialects and deviant speech; applications in speech education, speech and hearing therapy. Introduction to physiological acoustics, psychoacoustics, and acoustic phonetics. Perception of speech including voice, resonance, individual speech segments; instrumentation for acoustic and perceptual analysis of speech.

CSAD 111. Anatomy and Physiology of the Speech Mechanism. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, and STAT 1
Corequisite(s): CSAD 110
Term Typically Offered: Fall only

Anatomical, physiological and neurological bases of speech. Covers development, normal structure and function. A general course in human anatomy is recommended as background.

CSAD 112. Language Science and Development. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, and STAT 1
Corequisite(s): CSAD 110 and CSAD 111
Term Typically Offered: Fall only

Overview and comparison of normal and abnormal child language development from infancy through upper elementary school. Establishes a framework for understanding language disorders including autism and pervasive developmental delay. Includes theories of language acquisition, basic principles of language sampling, systems of language, elements of grammar, and preparation for informal and standardized assessment of language disorders. Introduces students to the impact of variables such as attention deficit disorder, poverty, bilingualism on developing language skills.

CSAD 123. Voice and Fluency. 3 Units
Prerequisite(s): CSAD 125, CSAD 126, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Fluency - Characteristics of stuttering, etiologic theories and their implications for treatment. Management of stuttering and other disorders of rhythm. Voice - Current concepts regarding anatomy and physiology, etiology, assessment and treatment of hyperfunctional and organic disorders.

CSAD 125. Developmental and Acquired Neurogenic Language Disorders Across the Lifespan. 3 Units
Prerequisite(s): CSAD 112, CHDV 30, PSYC 2, STAT 1, and DEAF 51.
Term Typically Offered: Spring only

Language disorders and the dynamic, reciprocal relationships between the disability, the client, his/her family, and the environment. Developmental and acquired neurogenic language disorders from infancy through adulthood will be covered including neurophysiology and neuropathology.

CSAD 126. Speech Sound Development and Disorders in Children: Aspects of Articulation and Phonology. 3 Units
Prerequisite(s): CSAD 110, CHDV 30, PSYC 2, STAT 1, and DEAF 51.
Term Typically Offered: Spring only

Study of normal articulation and phonological development in children. Discussion of etiologies and specific characteristics of articulatory-phonological disorders. Introductory description of foundational specific assessment and treatment principles. Analyzes case studies.

CSAD 127. Introduction to Medical Speech Pathology. 3 Units
Prerequisite(s): CSAD 123, CSAD 125, CSAD 126, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Current concepts regarding anatomy and physiology, etiology, assessment, and treatment of craniofacial disorders, laryngectomy, tracheostomy and dysphagia.

CSAD 130. Introduction to Audiology. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, STAT 1, CSAD 110 and CSAD 111.
Term Typically Offered: Spring only

Introduction to the field of audiology. Covers the principles of sound, the anatomy and physiology of the auditory system, audiometry, physiological measures of auditory function, disorders of the auditory system, sound and various assessment approaches.

CSAD 133. Introduction to Aural Rehabilitation. 3 Units
Prerequisite(s): CSAD 125, CSAD 126, CSAD 130, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Principles of aural (re)habilitation across the lifespan. Topics include psychosocial aspects of hearing impairment, communication strategies, amplification, and intervention approaches for children and adults with hearing loss.

CSAD 140. SLPA Methods. 3 Units
Prerequisite(s): CSAD 145 and instructor permission.
Corequisite(s): CSAD 140L.
Term Typically Offered: Fall, Spring

Taken by students as one of their senior level courses when they wish to pursue a Speech-Language Pathology Assistant (SLPA) licensure. Graduate students who have not had a similar course and wish to obtain this licensure will also need to enroll prior to pursuing the licensure.

CSAD 140L. SLPA Practicum, Ethical and Legal Parameters. 3 Units
Prerequisite(s): CSAD 145 and instructor permission.
Corequisite(s): CSAD 140.
Term Typically Offered: Fall, Spring

Taken by students as one of their senior level courses when they wish to pursue a Speech-Language Pathology Assistant (SLPA) licensure. Graduate students who have not had a similar course and wish to obtain this licensure will also need to enroll prior to pursuing the licensure.

CSAD 142. Topics in Autism Spectrum Disorders. 2 Units
Prerequisite(s): CSAD 112, CSAD 125, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Detailed look at characteristics of autism spectrum disorders (including Asperger's Syndrome, PDD-NOS and Autism). Issues related to diagnosis/assessment, early intervention, school-based intervention, functional therapeutic techniques and theories, and current 'hot topics' in Autism (Theory of Mind, joint attention, biomedical issues, dietary restrictions, sensory regulation and intervention paradigms) will be a part of this course.

CSAD 143. Communication Disorders in Multicultural Populations. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, STAT 1, CSAD 110, CSAD 125, and CSAD 126.
Term Typically Offered: Fall, Spring

Identification, evaluation, and treatment of multicultural, multilingual clients with communication disorders. Discussion of normal second language acquisition, bilingual development, and cultural values related to effective service delivery for multicultural clients.

CSAD 145. Supervised Field Observations. 1 Unit
Prerequisite(s): CSAD 110, CSAD 111, CSAD 112, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Corequisite(s): CSAD 125, CSAD 126, and CSAD 130.
Term Typically Offered: Spring only

Directed observations of speech and hearing testing (screening and diagnostic); therapy and case staffing in schools, service clinics and hospitals.
Credit/No Credit

CSAD 146. Introduction to Clinical Issues and Methods. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, STAT 1, CSAD 110, CSAD 111, CSAD 112, CSAD 125, CSAD 126, CSAD 130, and CSAD 145.
Term Typically Offered: Fall, Spring

Methods and materials used in clinical procedures are introduced. Work with graduate students and clients provides introduction to actual procedures and ethical practices. Introduction to ASHA Code of Ethics and legal issues in professional practice including federal and state laws and regulations, funding sources and scope of practice, survey of professional settings for speech and hearing services, including multidisciplinary settings. Prior to enrolling in CSAD 146, students must fulfill the catalogue requirements listed in the catalogue section 'Undergraduate Clinical Assistantship.

CSAD 147. Assessment Procedures. 3 Units
Prerequisite(s): CSAD 125, CSAD 126, CSAD 145, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Current principles, methods and materials used by the speech-language pathologist to assess communication disorders are presented. Issues related to a model of assessment, informal and formal testing, dynamic assessment, interview techniques, administration, scoring and interpretation of test results, report writing and related issues will be discussed.

CSAD 148. Research in Speech - Language Pathology and Audiology. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, SAT 1, CSAD 110, CSAD 111, CSAD 112, CSAD 125, CSAD 126, CSAD 130, and CSAD 145.
Term Typically Offered: Fall, Spring

Survey of research strategies and methods in Speech-Language Pathology and Audiology. Statistical procedures and single-subject designs. Emphasis on interpreting research reports in the literature and on developing research projects. Writing research proposals and reports.

CSAD 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students competent to carry on individual work.
Note: Departmental petition required.

Credit/No Credit

CSAD 217. AAC and Assistive Technologies. 2 Units
Term Typically Offered: Spring only

Biological, acoustic, psychological, development, linguistic, and cultural bases for motor speech disorders, focusing on augmentative and alternative communication an assistive technologies as well as their assessment and treatment techniques.

CSAD 218. Motor Speech Disorders. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall only

Background pertinent to understanding neurophysiology associated with congenital and acquired dysarthria and dyspraxia. Descriptions and classifications of disorders and their causes, methods of assessment and treatment.

CSAD 219. Counseling Techniques for Speech Pathologists and Audiologists. 3 Units
Term Typically Offered: Fall only

Development of strategies for counseling and interviewing clients with communication disorders and their families. Development of specific skills such as effective listening, dealing constructively with emotions, working with families, and leading support groups. Students will learn to deal effectively with the affective side of communication disorders to help clients benefit maximally from assessment and treatment.

CSAD 221. Neurogenic Language Disorders. 4 Units
Term Typically Offered: Spring only

In-depth study of language and cognitive disorders in adult, secondary to cerebrovascular accident, dementia, and/or traumatic brain injury. Assessment and intervention strategies are covered with particular emphasis on functional outcomes.

CSAD 222. Curriculum in Relation to Language -- Learning Disabilities in School-age Children. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Spring only

Language acquisition as a continuum from oral language to reading and writing, the role of the speech-language specialist in working with reading disabilities; the interactions among speech-language intervention and curricula areas including mathematics, spelling, handwriting, social studies and language arts; and various service delivery models, including collaborative consultation and learning centers.

CSAD 223. Advanced Seminar in Child Language Disorders. 3 Units
Prerequisite(s): CSAD 125 or equivalent
Term Typically Offered: Fall only

In-depth study of childhood language disorders emphasizing the use of critical thinking to integrate evidence-based practice into discussion of current assessment and intervention practices for children with primary and secondary language impairment Specific topics include language sampling, early intervention, connecting intervention with Common Core State Standards, and team-based service delivery. Populations addressed include bilingual learners, those with working memory deficits, and autism spectrum disorder. The impact of the digital era and screen exposure on children with language impairment is discussed.

CSAD 227. Dysphagia and the Medical Setting. 3 Units
Prerequisite(s): CSAD 218, CSAD 221, instructor permission.
Term Typically Offered: Fall, Spring

Swallowing problems from infancy through old age; growth patterns and failures in younger populations; feeding and swallowing problems related to normal aging processes and those associated with neurogenic disorders. Assessment and treatment. Includes theoretical and experiential components. Overview of the role of Speech-Language Pathologist in the hospital setting including learning how to read medical charts, basic insurance information, understanding other disciplines and how they affect the job and career of an SLP in the hospital, and medical terms/abbreviations.

CSAD 228A. Speech Sound Disorders: Concepts and Methods. 2 Units
Prerequisite(s): Admission to the graduate program. CSAD 125, CSAD 126, CSAD 143, CSAD 145, CSAD 146, CSAD 148.
Corequisite(s): CSAD 229A.
Term Typically Offered: Fall, Spring

Speech sound disorders for graduate students in speech-language pathology. Foundations of speech sound disorders, as well as techniques and materials for assessing and treating speech sound differences and disorders of varying etiologies and presentations. Weekly content will be integrated with practical experiences to promote learning.

CSAD 228B. Voice and Fluency: Concepts and Methods. 3 Units
Prerequisite(s): CSAD 123, CSAD 127, CSAD 228A, instructor permission.
Corequisite(s): CSAD 229B.
Term Typically Offered: Fall, Spring

Foundations of fluency, voice and resonance, as well as techniques and materials for assessing and treating speech disorders, emphasizing fluency and voice. Staffings and discussion of cases on the current caseload. Weekly content integrated with practical experiences to promote learning.

CSAD 228C. Methods: Speech Disorders III. 1 Unit
Prerequisite(s): CSAD 218, CSAD 228B; CSAD 221 may be concurrent; instructor permission.
Corequisite(s): CSAD 229C.
Term Typically Offered: Fall, Spring

Techniques and materials for assessing and treating clients with disordered speech secondary to developmental disabilities and syndromes, degenerative diseases or complex problems associated with English as a second language (ESL). Discussions of cases in the current caseload.

CSAD 229A. Practice: Speech Disorders I. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 228A
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing articulation and phonological disorders, and phonological difficulties associated with English as a second language (ESL). Clients may include both children and adults.

CSAD 229B. Practice: Speech Disorders II. 2 Units
Prerequisite(s): Instructor permission.
Corequisite(s): CSAD 228B.
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing clients whose speech is disrupted by abnormal rhythm and rate (e.g. stuttering and cluttering) or abnormal vocal pitch, loudness, and/or quality.

CSAD 229C. Practice: Speech Disorders III. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 228C
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing children and adults whose speech is disrupted secondary to developmental disorders and syndromes, degenerative disorders or complex problems.

CSAD 241S. Practice: Hearing Screenings. 1 Unit
Prerequisite(s): CSAD 130
Term Typically Offered: Fall, Spring

Supervised clinical practice in the administration of hearing screening tests. The student must furnish his/her own transportation. Fifteen to twenty hours for one unit.
Credit/No Credit

CSAD 242A. Methods: Language Disorders I & Professional Writing-Field of Speech-Language Pathology & Audiology. 2 Units
Prerequisite(s): Admission to Graduate Program
Corequisite(s): CSAD 243A
Term Typically Offered: Fall, Spring

Methods, materials and procedures in language disorders with emphasis on working with children and adults with peripheral hearing loss or central auditory processing disorders (CAPD). Includes staffing and discussion of cases in the current caseload. Focus on professional writing in the field of Speech-Language Pathology through the development of treatment plan proposals, critical responses, and clinic reports.

CSAD 242B. Methods: Language Disorders II. 1 Unit
Prerequisite(s): CSAD 223, CSAD 242A; instructor permission.
Corequisite(s): CSAD 243B.
Term Typically Offered: Fall, Spring

Techniques and materials for assessing and treating children with disordered language secondary to a myriad of contributing factors including delayed development, neurological problems and various genetic conditions. Discussion of cases in the current caseload.

CSAD 242C. Methods: Language Disorders III. 1 Unit
Prerequisite(s): CSAD 218, CSAD 242B; CSAD 221 may be taken concurrently; instructor permission.
Corequisite(s): CSAD 243C.
Term Typically Offered: Fall, Spring

Techniques and materials for assessing and treating speech and language disorders emphasizing disorders secondary to cerebral vascular accidents, traumatic brain injury, or other neurological disorders. Discussion of cases in the current caseload.
Note: May be repeated.

CSAD 243A. Practice: Language Disorders I. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 242A
Term Typically Offered: Fall, Spring

Supervised clinical practice in language disorders emphasizing children and adults with peripheral hearing loss or central auditory processing disorders (CAPD).

CSAD 243B. Practice: Language Disorders II. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 242B
Term Typically Offered: Fall, Spring

Supervised clinical practice with children demonstrating language disorders secondary to a myriad of contributing factors including delayed development, neurological problems, and various genetic conditions.

CSAD 243C. Practice: Language Disorders III. 2 Units
Prerequisite(s): CSAD 243B; instructor permission
Corequisite(s): CSAD 242C
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing adult clients whose speech and language are disordered secondary to neurogenically related problems such as cerebrovascular accident, traumatic brain injury, or other neurological disorders.

CSAD 244. Methods: Speech -- Language Assessment. 1 Unit
Prerequisite(s): CSAD 147 or equivalent; CSAD 228B, CSAD 242B; instructor permission.
Corequisite(s): CSAD 245.
Term Typically Offered: Fall, Spring

Methods and materials for initial assessment in Speech-Language Pathology.

CSAD 245. Practice: Speech -- Language Assessment. 1 Unit
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 244
Term Typically Offered: Fall, Spring

Supervised clinical practice in assessment with a variety of communication disorders in children and adults. Experience with interdisciplinary teams.

CSAD 250. Speech/Language Internships Seminar. 2 Units
Prerequisite(s): CSAD 228A, CSAD 228B, CSAD 228C, CSAD 229A, CSAD 229B, CSAD 229C, CSAD 241S, CSAD 242A, CSAD 242B, CSAD 242C, CSAD 243A, CSAD 243B, CSAD 243C, CSAD 244, CSAD 245.
Corequisite(s): CSAD 295I, or CSAD 295M, or CSAD 295P, or CSAD 295S.
Term Typically Offered: Fall, Spring

Assessment, scheduling and conducting language speech and hearing programs in schools. Related issues including scope of practice, managed care, interagency cooperation and transdisciplinary approaches.

CSAD 295I. Internship: Speech-Language and Hearing Services in Schools (SLHS). 4 Units
Prerequisite(s): All previous semester's clinical practica and coursework must be completed, achievement of a passing score on the CBEST.
Corequisite(s): CSAD 250. Graded: Credit/No Credit Units: 4
Term Typically Offered: Fall, Spring

Supervised clinical practice in the school setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation. Credit/No Credit

CSAD 295M. Internship: Speech-Language Pathology in a Medical Setting. 4 Units
Prerequisite(s): All previous semester's clinical practica and coursework must be completed, achievement of a passing score on the CBEST.
Corequisite(s): CSAD 250. Graded: Credit/No Credit Units: 4
Term Typically Offered: Fall, Spring

Supervised clinical practice in a medical setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation. Credit/No Credit

CSAD 295P. Internship: Speech-Language Pathology in Private Practice. 4 Units
Prerequisite(s): CSAD 250. All previous semester's clinical practica and coursework must be completed, achievement of a passing score on the CBEST. Graded: Credit/No Credit. Units: 4
Term Typically Offered: Fall, Spring

Supervised clinical practice in a private practice setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation. Credit/No Credit

CSAD 295S. Internship: Special Class Authorization Eligibility. 4 Units
Prerequisite(s): CSAD 250. All previous semester's clinical practica and coursework must be completed, achievement of a passing score on the CBEST. Graded: Credit/No Credit Units: 4
Term Typically Offered: Fall, Spring

Supervised clinical practice in a medical setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation. Credit/No Credit

CSAD 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work.
Note: Departmental petition required.

Credit/No Credit

CSAD 500C. Culminating Experience: Comprehensive Exam. 2 Units
Prerequisite(s): Advanced to Candidacy Graded: Credit/No Credit Units: 2.0
Term Typically Offered: Fall, Spring

Written exam comprised of eight questions. Examinees are given one and a half hours to complete each question.

CSAD 500P. Culminating Experience: Project. 2 Units
Prerequisite(s): Advancement to Candidacy. Graded: Credit/No Credit. Units: 2.0 - 4.0
Term Typically Offered: Fall, Spring

Independent work conducted under the supervision of faculty members. A project is a significant undertaking appropriate to the professional fields of Speech-Language Pathology or Audiology. It must evidence originality, independent thinking, appropriate form and organization, and a rationale. It must be described and summarized in a written document that includes the project's significance, objectives, methodology, and a conclusion or recommendation. Students must follow all department and university project guidelines.

CSAD 500T. Culminating Experience: Thesis. 2 Units
Prerequisite(s): Advanced to Candidacy. Graded: Credit/No Credit.
Term Typically Offered: Fall, Spring

Independent research study, conducted under the supervision of faculty members. Thesis must involve a research question or hypothesis, review of pertinent literature, collection and analysis of data. It is the student's responsibility to locate and recruit subjects, to collect data, and to write the thesis. Students must follow all department and university thesis guidelines.

CSAD 501. Audiology Doctoral Project I. 1 Unit
Prerequisite(s): CSAD 510
Term Typically Offered: Fall only

Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines.
Credit/No Credit

CSAD 502. Audiology Doctoral Project II. 1 Unit
Prerequisite(s): CSAD 501
Term Typically Offered: Spring only

Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines.
Credit/No Credit

CSAD 503. Audiology Doctoral Project III. 1 Unit
Prerequisite(s): CSAD 502
Term Typically Offered: Summer only

Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines.
Credit/No Credit

CSAD 504. Audiology Doctoral Project IV. 1 Unit
Prerequisite(s): CSAD 503
Term Typically Offered: Fall only

Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines.
Credit/No Credit

CSAD 505. Audiology Doctoral Project V. 1 Unit
Prerequisite(s): CSAD 504
Term Typically Offered: Spring only

Dissemination, written and oral, of capstone research.
Credit/No Credit

CSAD 510. Audiology Progress Exam. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 620, CSAD 620C, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 630, CSAD 630C, CSAD 631, CSAD 632.
Term Typically Offered: Summer only

Formative written and practical exam based on coursework and clinical experiences from the first year of the Doctor of Audiology program.
Credit/No Credit

CSAD 610. Introduction to Clinic. 1 Unit
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Introduction to on-campus clinic operations, including electronic documentation procedures, clinic policies, and documentation.

CSAD 611. Anatomy and Physiology of the Auditory and Vestibular Systems. 3 Units
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Anatomical, physiological, and neurological bases of the auditory system and central nervous system and central nervous system. Covers embryologic development, including genetic factors, and normal structure and function.

CSAD 612. Acoustics and Psychoacoustics. 3 Units
Prerequisite(s): Admission to Doctorate program in Audiology.
Term Typically Offered: Fall only

Basic properties of the acoustics of simple and complex sounds. Psychophysical aspects of frequency and pitch, intensity and loudness, and temporal processes will be discussed. Speech perception for listeners with normal hearing and those with hearing loss.

CSAD 613. Instrumentation in audiology. 3 Units
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Basic principals of electrical systems, calibration, signal processing, and analysis. Review of national standards related to calibration and instrumentation used in audiology.

CSAD 614. Audiologic Evaluation. 3 Units
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Introduction to the purpose, diagnostic use, and procedures for basic clinical tests of auditory function in children and adults. Assessments including pure-tone audiometry, speech audiometry, masking, and immittance measures are discussed. Supervised, hands-on experiences will accompany lecture topics.

CSAD 620. Clinical Methods: Communicating with Patients. 1 Unit
Prerequisite(s): Admission to doctorate program in audiology; CSAD 610.
Corequisite(s): CSAD 620C.
Term Typically Offered: Spring only

Communicating with patients. The nature of health communication among providers, patients, families, and caregivers. Topics related to multicultural issues will also be presented.

CSAD 620C. Audiology Clinic II. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610
Corequisite(s): CSAD 620
Term Typically Offered: Spring only

Supervised clinical practice in audiology with an emphasis on developing clinical skills for audiologic evaluations, amplification, and aural rehabilitation.

CSAD 621. Research Methods in Audiology. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614
Term Typically Offered: Spring only

Treatment of human subjects and research methods. Overview of the research process, including research designs, development of data collection instruments, and data collection, and introduction to basic statistical concepts for the Au.D. doctoral project. Ethical considerations of research are also discussed.

CSAD 622. Amplification I. 3 Units
Prerequisite(s): Admission to the Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, and CSAD 614.
Corequisite(s): CSAD 622L
Term Typically Offered: Spring only

Introduction to electroacoustic analysis and characteristics of hearing aids. Includes components of hearing aids, hearing aid gain and fitting formulae, and basic signal processing.

CSAD 622L. Amplification I Lab. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, and CSAD 614.
Corequisite(s): CSAD 622.
Term Typically Offered: Spring only

Laboratory component of CSAD 622: Amplification I. Hands-on experience with concepts presented in CSAD 622.

CSAD 623. Disorders of the Auditory System. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, and CSAD 614.
Term Typically Offered: Spring only

Pathologies of the auditory system, including diagnosis, management, and treatment.

CSAD 624. Genetics for Audiology. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614.
Term Typically Offered: Spring only

Introduction to genetics, inheritance, and causes of hearing loss and balance disorders.

CSAD 630. Clinical Methods: Report writing. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620.
Corequisite(s): CSAD 630C.
Term Typically Offered: Summer only

Principles of clinical report writing. Foundations of professional writing and recordkeeping for the diagnostic and rehabilitative processes. Writing requirements for practicum experiences will be discussed.

CSAD 630C. Audiology Clinic III. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C.
Corequisite(s): CSAD 630.
Term Typically Offered: Summer only

Supervised clinical practice in audiology with an emphasis on developing clinical skills for audiologic evaluations, amplification, and aural rehabilitation.

CSAD 631. Amplification II. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624
Term Typically Offered: Summer only

Advance study of digital amplification systems, including hearing aids and assistive listening devices. Practical approaches to the fitting of devices are discussed.

CSAD 632. Pediatric and Educational Audiology. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624.
Term Typically Offered: Summer only

Introduction to etiologies of childhood hearing impairment, including genetics, syndromic and non-syndromic causes of hearing loss, and risk factors. Objective and behavioral measures of assessing auditory function and hearing in newborns, infants, toddlers, and children. Review of screening procedures.

CSAD 640. Clinical Methods: Current Topics in Audiology. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630
Corequisite(s): CSAD 640C
Term Typically Offered: Fall only

Review and discussion of current topics in audiology such as hidden hearing loss, cerumen management, tinnitus, speech perception in noise, central auditory processing, or technological advancements in amplification.

CSAD 640C. Audiology Clinic IV. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C, CSAD 630C
Corequisite(s): CSAD 640
Term Typically Offered: Fall only

Supervised clinical practice in audiology with an emphasis on developing clinical skills for audiologic evaluations, amplification, and aural rehabilitation.

CSAD 641L. Auditory Evoked Potentials Lab. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632
Corequisite(s): CSAD 641
Term Typically Offered: Fall only

Lab component includes administration and reporting of physiological assessments presented in CSAD 641: Auditory Evoked Potentials.

CSAD 642. Industrial Audiology and Hearing Conservation. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632.
Term Typically Offered: Fall only

Study of the effects of noise on the auditory system and measurement of noise levels. Theories and resources for the implementation of hearing conservation programs for recreational/leisure noise exposure, industrial settings, and schools.

CSAD 643. Tinnitus. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD611, CSAD612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632.
Term Typically Offered: Fall only

Psychological and physiological models of tinnitus and hyperacusis, diagnostic methods, and management.

CSAD 650. Clinical Methods: Billing and Coding. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640
Corequisite(s): CSAD 650C
Term Typically Offered: Spring only

Overview of coding, billing, and reimbursement for audiology services and devices. Students will learn current federal regulations and laws that affect audiology practice.

CSAD 650C. Audiology Clinic V. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C
Corequisite(s): CSAD 650
Term Typically Offered: Spring only

Supervised clinical practice in audiology with an emphasis on refining clinical skills and working independently.
Credit/No Credit

CSAD 652. Pediatric Habilitation. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631 CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643.
Term Typically Offered: Spring only

Early identification, assessment, and rehabilitation for infants and children with hearing loss. Focus on speech and language outcomes, communication strategies, technology, and counseling of families.

CSAD 653. Diagnosis and Management of Vestibular Disorders. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643.
Term Typically Offered: Spring only

Anatomical and physiological bases of the vestibular system, including congenital, peripheral and central, and neurologic factors will also be introduced. Physiological measures of the vestibular system, clinical assessment, and management and rehabilitation.

CSAD 660. Clinical Methods: Legal and Ethical Issues. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640, CSAD 650
Corequisite(s): CSAD 660C
Term Typically Offered: Summer only

Ethics for clinical practice and research and legal issues for audiologists. Focuses on local and national issues that influence service delivery.

CSAD 661. Aural Rehabilitation. 3 Units
Term Typically Offered: Summer only

Rehabilitative techniques and communication needs for adults and the aging population. Focus on minimizing communication difficulties and managing psychosocial aspects of hearing loss. Prerequisite:Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653.

CSAD 662. Implantable Devices and Technology. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653
Term Typically Offered: Summer only

Pre-operative assessment and post-operative management of cochlear implants and other implantable devices. Includes patient counseling for expectations, introduction to surgical procedures, mapping, use of assistive devices, and current developments in research.

CSAD 670. Clinical Methods: Professional Issues. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640, CSAD 650, CSAD 660
Corequisite(s): CSAD 670C
Term Typically Offered: Fall only

Professional issues for audiologists. Topics covered include licensure, certification, and professional Involvement at the local, state, and national levels.

CSAD 670C. Audiology Clinic VII. 2 Units
Prerequisite(s): Student must be admitted to Doctor of Audiology program; complete CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C, CSAD 650C to enroll in this course.
Corequisite(s): CSAD 670.
Term Typically Offered: Fall, Spring

Supervised clinical practice in audiology with an emphasis on refining clinical skills and working independently.

CSAD 671. Counseling in Audiology. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 322, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662.
Term Typically Offered: Fall only

Introduction to the principles and theories of counseling. Emphasis on communication skills and applied techniques. Considerations for assessing multicultural populations. Influences of cultural background on attitudes, beliefs, disabilities, utilization of health care services, and deafness.

CSAD 672. Central Auditory Processing Disorders. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 311, CSAD 312, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 331, CSAD S32, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 362.
Term Typically Offered: Fall only

Definition and role of audiologists in the assessment, diagnosis, and management of children, adults, and older adults with auditory processing disorder.

CSAD 673. Pharmacology and Ototoxicity. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611 , CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD6 42, CSAD 343, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662.
Term Typically Offered: Fall only

Introduction to the basic concepts of pharmacology, including pharmacokinetics, polypharmacy, and ototoxicity (cochleotoxicity, vestibulotoxicity, and neurotoxicity), for audiologists. Overview of drug classifications, interactions, and regulations.

CSAD 680. Clinical Methods: Differential Diagnosis. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640, CSAD 650, CSAD 660, CSAD 670
Corequisite(s): CSAD 680C
Term Typically Offered: Spring only

Discussion of clinical cases to encourage critical thinking and decision-making processes.

CSAD 680C. Audiology Clinic VIII. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C, CSAD 650C, CSAD 660C, CSAD 670C.
Corequisite(s): CSAD 680
Term Typically Offered: Spring only

Supervised clinical practice in audiology with an emphasis on refining clinical skills and working independently.
Credit/No Credit

CSAD 682. Aging and the Auditory System. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 341 , CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662, CSAD 671, CSAD 672, CSAD 673.
Term Typically Offered: Spring only

Overview of physical, psychological, social, and cognitive changes that are associated with normal aging. Prevalent disorders, diseases, and conditions in older adults will be discussed. Effects of aging on diagnostic tests and rehabilitation for older adults. Interdisciplinary in nature.

CSAD 683. Speech-Language Pathology for Audiologists. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 314, CSAD 621. CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 331, CSAD 332, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662, CSAD 671, CSAD 672, CSAD 673
Term Typically Offered: Spring only

Overview of speech and language development, including screening for speech and language disorders and risk factors for speech and language delay, from the perspective of audiology. Principles of auditory-verbal therapy.

CSAD 710. Clinical Methods: Externship I. 2 Units
Prerequisite(s): CSAD 520
Corequisite(s): CSAD 710E
Term Typically Offered: Summer only

Seminar and discussion of cases from externship placements.

CSAD 710E. Audiology Externship 1. 7 Units
Prerequisite(s): CSAD 520
Corequisite(s): CSAD 710
Term Typically Offered: Summer only

Full-time externship in audiology.
Credit/No Credit

CSAD 720. Clinical Methods: Externship II. 2 Units
Prerequisite(s): CSAD 710.
Corequisite(s): CSAD 720E.
Term Typically Offered: Fall only

Seminar and discussion of cases from externship placements.

CSAD 720E. Audiology Externship 2. 7 Units
Prerequisite(s): CSAD 710E.
Corequisite(s): CSAD 720.
Term Typically Offered: Fall only

Full-time externship in audiology.
Credit/No Credit

CSAD 730. Clinical Methods: Externship III. 2 Units
Prerequisite(s): CSAD 720.
Corequisite(s): CSAD 730E.
Term Typically Offered: Spring only

Seminar and discussion of cases from externship placements.

CSAD 730E. Audiology Externship 3. 7 Units
Prerequisite(s): CSAD 720E.
Corequisite(s): CSAD 730.
Term Typically Offered: Spring only

Full-time externship in audiology.
Credit/No Credit

BS in Communication Sciences and Disorders

Units required for Major: 52-55 (40-43 CSAD courses + 12 major prerequisites)
Total units required for BS: 120

Program Description

A student must have a 2.5 GPA in the major in order to graduate with a Bachelor of Science Degree in Communication Sciences and Disorders. To achieve this GPA, students may repeat up to a maximum of 16 units of coursework in the major in courses for which grades of C- or below were earned, contingent upon their eligibility to do so under the campus policy on repeating courses. Repeated course grades will either be forgiven or averaged with the new grade according to the campus policy on repeating courses. Students must complete the major prerequisites before beginning courses in Communication Science and Disorders.

Undergraduate courses are designed for students to begin in the fall semester and progress in a proscribed sequence.

It is strongly recommended that students:

- Take a course in physics and/or chemistry as some programs offering the Master's Degree in Speech-Language Pathology or Communication Sciences and Disorders will require it.
- Finish all Undergraduate General Education units before beginning major coursework.

Program Requirements

Code	Title	Units
Required Major Prerequisite Courses (12-13 Units)		
CHDV 30	Human Development (or other course in Human Development Through the Lifespan) [1]	3
STAT 1	Introduction to Statistics (or other course in Introduction to Statistics)	3
PSYC 2	Introductory Psychology (or other course in Introduction to Psychology) [1]	3
DEAF 51	American Sign Language 1 (or other course in sign language)	3,4
Required Upper Division Courses (43 Units)		
Semester 1, Fall		
CSAD 110	Physics of Sound and Phonetics	4
CSAD 111	Anatomy and Physiology of the Speech Mechanism	3
CSAD 112	Language Science and Development	3
Semester 2, Spring		
CSAD 125	Developmental and Acquired Neurogenic Language Disorders Across the Lifespan	3
CSAD 126	Speech Sound Development and Disorders in Children: Aspects of Articulation and Phonology	3
CSAD 130	Introduction to Audiology	3
CSAD 145	Supervised Field Observations	1
Semester 3, Fall		
CSAD 123	Voice and Fluency	3
CSAD 142	Topics in Autism Spectrum Disorders	2
CSAD 146	Introduction to Clinical Issues and Methods [2]	3
CSAD 147	Assessment Procedures	3
Semester 4, Spring		
CSAD 127	Introduction to Medical Speech Pathology	3
CSAD 133	Aural Rehabilitation	3
CSAD 143	Communication Disorders in Multicultural Populations	3
CSAD 148	Research in Speech - Language Pathology and Audiology	3
Total Units		55-56

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] **Offered Fall or Spring**. *Required* for students who plan to apply to Sacramento State for the Master's in Communication Sciences and Disorders. *Recommended* for students who plan to apply to graduate programs at other universities. *Optional* for students who do not plan to attend graduate school.
Note: Students must submit a signed record of all observation hours and supervised clinical clock hours to the Communication Sciences and Disorders Department. Students should retain a second copy for their personal records.
Prior to enrolling in CSAD 146**, students must fulfill the following requirements:**

- Pass/complete the Sacramento State undergraduate writing requirement as delineated in the University Policy Manual posted on the campus website.
- 3.2 GPA within the major (CSAD) with no CSAD courses below a grade of 'C.'
- Proof of negative tuberculin (PPD) test and verification of measles, rubella, and hepatitis B immunizations.
- Completion of a Level 1 criminal background screening. Screenings must be conducted by the department-sanctioned agency. Refer to Department webpage for current agency instructions. Background checks performed by other agencies are not accepted.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (10-13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5		1
B4 - Math Concepts [2]		0 - 3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area Course C		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course [3]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development		

Area E Course [3]	0
Total Units	40-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department offers students a 'select from the following option':
- If student chooses to take STAT 1, they will meet Area B4.

[3] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Doctor of Audiology

The Doctor of Audiology program has received approval from the Western Association of Schools and Colleges Senior College and University Commission (WSCUC) and from the CSU Chancellor's Office. The Accreditation Commission for Audiology Education (ACAE) has granted the program 'Developing Status."

The American Speech-Language-Hearing Association (ASHA) Council on Academic Accreditation (CAA) has accepted our application for candidacy, and will be conducting a site visit in Spring 2020. Pending awarding of final candidacy status, the program will be implemented, and we are currently accepting applications for the 2020-2021 academic year.

Units required for Doctorate of Audiology (Au.D.): 118

Program Description

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

Admission Requirements

- Students must have an undergraduate degree from an accredited institution.
- Students must have completed a course in each of the following:
  - Human Development Across the Lifespan
  - Introduction to Psychology
  - Introduction to Statistics
  - American Sign Language
  - Biological Science
  - Physical science
- Students must have completed the equivalent of the following Sacramento State Communication Sciences and Disorders courses:

Code	Title	Units
CSAD 110	Physics of Sound and Phonetics	4
CSAD 111	Anatomy and Physiology of the Speech Mechanism	3
CSAD 112	Language Science and Development	3
CSAD 125	Developmental and Acquired Neurogenic Language Disorders Across the Lifespan	3
CSAD 130	Introduction to Audiology	3
CSAD 133	Aural Rehabilitation	3

- Students must have a GPA of 3.00 overall and a GPA of 3.00 for the above pre-requisite courses.
- Domestic applicants with foreign documents and international students (F-1 or J-1 visa applicants) must consult the Office of Graduate Studies (https://www.csus.edu/graduate-studies/) and the International Programs and Global Engagement Office (https://www.csus.edu/international-programs-global-engagement/) for specific application instructions. These students must also submit TOEFL scores. Consult the Department website (https://www.csus.edu/college/health-human-services/communication-sciences-disorders/) for department-specific TOEFL scores.
- GRE scores obtained in the last 5 years. Applicants are required to have a minimum combined score of 291 on the verbal and quantitative portions of the test and a minimum score of 3.5 on the analytical writing portion of the test.
- Three letters of recommendation, two of which must come from university faculty who can speak to the student's academic potential and one must come from a professional reference in the field of audiology.
- Oral and written essay.

- Resume of education, related work, volunteer and multicultural experience, and any scholarships, awards or other commendations.
- Documentation of 25 completed documented observation hours in communication sciences and disorders, of which at least 50% must be in audiology.
- Students must consult the Department website for additional current admission requirements and procedures.

Doctor of Audiology Graduate Program Policies and Procedures

1. A student must have, at minimum, a 3.0 GPA in the graduate coursework in order to graduate with a Doctor of Audiology degree. Students may not earn a grade of less than a B in any major didactic course or clinical practicum. The Au.D. Program Director will review each student's grade reports at the end of each semester to identify students who receive less than a B in any graduate level course or clinical practicum or students who have less than a 3.0 GPA for the semester. The course instructor (for didactic courses) or clinical supervisor (for practicum sites) will meet with the Au.D. Program Director and student to discuss steps for the student to remediate the coursework, address areas of weakness in clinical performance, etc. Students falling to maintain a GPA of 3.00 are automatically placed on academic probation. Students on academic probation must independently remediate the coursework or address the deficiencies identified by the course instructor and Au.D. Program Director or s/he will not be allowed to continue the graduate program and will be dismissed. Any student who has less than B in any two didactic or B in any clinical practicum courses will not be allowed to continue in the graduate program and will be dismissed.
2. Prior to enrolling in any clinical practica, students must fulfill the following criteria:
   a. Proof of negative tuberculin (PPD) test and verification of measles, rubella, and hepatitis B immunization series.
   b. Completion of a Level 1 criminal background check. Background checks must be conducted by the department-sanctioned agency. Refer to the Department webpage for current agency instructions. Background checks performed by other agencies are not accepted.
   c. Students must complete all clinical practica in the prescribed sequence. Students who have not completed a given semester's clinical practica will not be allowed to progress into subsequent clinical practica, including internships and the externship.
   d. Current certification in Cardiopulmonary Resuscitation (CPR) for Health Care Providers.
3. Students must meet clock-hour requirements for the Accreditation Commission for Audiology Education (ACAE), American Speech-Language and Hearing Association (ASHA) Certificate of Clinical Competence (CCC) (pending approval of program's CAA Candidacy status) and California License in Audiology.
4. Internship requirements: Documentation of the following is required by the end of the second clinical semester:
   a. Current certification in Cardiopulmonary Resuscitation (CPR) for Health Care Providers.
   b. Complete Certificate of Clearance.
5. Students must furnish their own transportation to off-campus practicum sites.
6. Students must explore and complete additional internship requirements as delineated by each site.
7. Clock hours from the following may be counted for the CCC (pending approval of program CAA candidacy status) and California License in Audiology only if the on-site supervisors have their CCCs and California License in Audiology:

Course	Course title	Units
CSAD 620C	Audiology clinic II	1
CSAD 630C	Audiology clinic III	2
CSAD 640C	Audiology clinic IV	1
CSAD 650C	Audiology clinic V	1
CSAD 660C	Audiology clinic VI	2
CSAD 670C	Audiology clinic VII	2
CSAD 680C	Audiology clinic VIII	2
CSAD 710E	Audiology externship I	7
CSAD 720E	Audiology externship II	7
CSAD 730E	Audiology externship III	7

8. Students must meet the clinical practicum requirements, including approved hours, for the Certificate of Clinical Competence (CCC) (pending approval of program's CAA Candidacy status) and the California License in Audiology at the time of graduation in order to receive the Au.D. degree.
9. Students must submit a signed record of all observation hours and supervised clinical clock hours to the Communication Sciences and Disorders Department. Students should retain multiple copies for their personal records.
10. Students earning less than a B in clinical practicum must repeat the clinical experience during the following semester. Hours earned for the semester in which the student earned less than a B will not be counted.

Audiology Doctoral Project

1. Students must complete a doctoral project in order to graduate.
2. To enroll in CSAD 501, students must have passed the first-year progress exam, CSAD 510.
3. Students must enroll in CSAD 501, 502, 503, 504, and 505 for five consecutive semesters after passing CSAD 510.
4. A student may not register for CSAD 501 unless the following conditions have been met:
   a. The readers judge that the proposal, which includes a comprehensive review of the literature and proposed methodology, is sufficiently well-developed.
   b. Her/his proposal has been approved by the Doctoral Project Committee no later than the 6th week of the third semester. The proposal must include the introduction (including literature review) and methodology.
   c. Written approval of the first reader has been accepted by the Department Chair.
5. No subjects may be recruited until the study has received Institutional Review Board (IRB) approval. IRB approval should be obtained by the eighth week of the fall semester (year 2). It is possible for this process to take up to a full academic year.

Definition: The Au.D. doctoral project is an independent research study conducted by the student under the supervision of members of the faculty. The project must include a testable research question and hypothesis, review of pertinent literature, and the collection and analysis of data. It is the student's responsibility to locate and recruit subjects and to collect the data, as well as to write the paper. Papers that are based

on original data are preferred; however, those based on secondary data sources will also be considered.

Supervision: The doctoral project is supervised by a committee of three faculty members in the Department of Communication Sciences and Disorders. The 'first reader' is the chair of the committee and the student's primary advisor and editor. The 'second reader' and 'third reader' evaluate the proposal at the beginning, consult on the development of the paper as necessary, and must approve the final paper.

Credit: A student enrolls in one unit of Audiology Doctoral Project each semester he/she works on the project for a total of five units. Students must complete the project before the end of the third year in order to complete degree requirements.

Audiology Progress Exam (CSAD 510)

Consists of written and clinical portions. Both portions must be passed according to the criteria below:

Formative written exam: Based on coursework taken in the first year of the Au.D. program (anatomy and physiology, acoustics and psychoacoustics, instrumentation, audiologic evaluation, amplification, disorders of the auditory system, genetics, research methods, and pediatric and educational audiology). The exam is administered during the summer of the first year. The exam period is over two days, and students will write for up to four hours each day.

1. Faculty will develop questions and scoring rubrics for each of the nine subject areas assessed based on expertise and subject areas taught.
2. Each response will be scored by two faculty members. If two faculty members award different scores (e.g. pass and no-pass), a third faculty member will serve as a tie breaker. Faculty scores are confidential.
3. Upon completion and review by the examiners, each question is given a grade of 'Pass,' 'Conditional Pass, or 'No-Pass'
   a. 'Pass' indicates a satisfactory completion of the question.
   b. 'Conditional Pass' indicates a pass, but the examiners require additional work or remediation. Examiners are required to provide written feedback of the student's responses. Deficiencies can be addressed through an oral exam tor further clarification or coursework remediation (reading, independent study, etc.), which is determined by the faculty examiner and Au.D. Program Director. A timeline for this remediation plan and a method for verifying completion of the work must be determined by the faculty examiners, Au.D. Program Director, and the student.
   c. 'No-Pass' indicates an unsatisfactory answer. Students are required to meet with the examiners and Au.D. Program Director to review their performance. Students who receive 'No-Pass' results on less than or equal to 25% of the questions will meet with the examiners to address deficiencies.
4. Students must receive a 'Pass' on all areas of the exam to proceed to the second year.
5. Students receiving conditional 'Pass' results on more than 50% of the questions may be placed on academic probation and given the opportunity to retake the exam by the end of the summer semester after completing remediation work. Failure to receive a 'Pass' on the second administration of the exam will result in dismissal from the program.
6. Students receiving 'No-Pass' results on more than 25% of the questions will be dismissed from the program.

Clinical exam: Includes a practical portion and a case study. Students will perform clinical procedures related to the topics presented in CSAD 614: Audiologic evaluation, CSAD 622: Amplification I, CSAD 622L: Amplification I lab, CSAD 631: Amplification II, and CSAD 632: Pediatric and Educational Audiology. Students will perform the evaluation in the presence of an Au.D. faculty member. The second part of the clinical exam will involve the presentation of a case study in which students will discuss their preparation for the appointment, possible diagnostic results, clinical interpretation of findings, and recommendations.

1. Grading
   a. Students must pass the clinical portion of the exam at 80% or higher in order to enroll in CSAD 504.
   b. Students receiving less than 80% will have one opportunity to re-take the clinical portion of the exam and receive a 'Pass' result
   c. Students who fail to receive a 'Pass' result on the second attempt will be removed from the program

Audiology Comprehensive Exam (CSAD 520)

Definition: Summative written and oral exam that assesses knowledge and skills gained through coursework and/or clinical practica, and evaluates problem-solving and critical thinking skills for clinical cases. The written exam will be completed within the first week of the testing period during the spring semester, and the oral exam will be scheduled during the second week of testing.

1. The written portion consists of 200 questions that evaluate students' knowledge of the first two years of didactic and clinical coursework. Students must score 80% or better on this section to pass. The exam period is up to four hours on one day.
   a. Students who receive less than 80% on the exam must develop a plan for remediation with the Au.D. program faculty. Students may retake the written portion of the exam once. Failure to achieve a passing score on the second attempt will result in dismissal from the program.
2. The oral exam includes three cases (e.g. pediatric, adult, vestibular, etc.). The student will discuss the case history information, diagnostic results, and management plan with the examining committee. Questions pertaining to interpretation of the test results, site-of-lesion determination, recommendations or referrals, and rehabilitation of cases will be asked. Students will be expected to reference research and/or evidence-based practice guidelines in their responses. Students will also be asked additional questions to respond to during this examination period.
   a. Each response to the oral exam will be evaluated by three Au.D. faculty members. Faculty will evaluate responses using a rubric for thorough discussion, appropriate assessments and recommendation, and correct responses to questions.
   b. Upon completion and review by the examiners, each question is given a grade of 'Pass' or 'No-Pass.'
      i. 'Pass' indicates a satisfactory completion of the question.
      ii. 'No-Pass' indicates an unsatisfactory answer to any of the discussion questions of the oral exam. Students who receive a 'No-Pass' result are not permitted to begin the third-year externship. Students will be given the opportunity to develop a remediation plan with Au.D. program faculty before retaking the exam at the end of the summer semester. Failure to receive a 'Pass' result on the second attempt will result in dismissal from the program.

Additional Information

Licensure, Certification, and Fellowship

Students completing the program will be eligible to apply for California licensure in audiology and fellowship from the American Academy of Audiology. Students seeking the Certificate of Clinical Competence from the American Speech-Language and Hearing Association (ASHA) (pending approval of CAA candidacy status) after graduation must notify the clinical coordinator to find ASHA-certified supervisors for the placements (specifically, during the externship year).

Licensure

Admission into programs leading to licensure does not guarantee that students will obtain a license. Licensure requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure requirements can include evidence of the right to work in the United States (e.g ., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure requirements.

Program Requirements

Coursework in the Doctor of Audiology program are lockstep and begin in the fall semester.
Students are admitted to the program on a yearly basis. There are eleven semesters in the program.

Units required for Doctorate of Audiology Program: 118 units

Code	Title	Units
Semester 1: Fall (13 Units)		
CSAD 610	Introduction to clinic	1
CSAD 611	Anatomy and physiology of the auditory and vestibular systems	3
CSAD 612	Acoustics and psychoacoustics	3
CSAD 613	Instrumentation	3
CSAD 614	Audiologic evaluation	3
Semester 2: Spring (13 Units)		
CSAD 620	Clinical methods: Communicating with patients	1
CSAD 620C	Audiology clinic II	1
CSAD 621	Research methods in audiology	3
CSAD 622	Amplification I	3
CSAD 622L	Amplification I lab	1
CSAD 623	Disorders of the auditory system	3
CSAD 624	Genetics for audiology	1
Semester 3: Summer (10 Units)		
CSAD 510	Audiology progress exam	1
CSAD 630	Clinical methods: Report writing	1
CSAD 630C	Audiology clinic III	2
CSAD 631	Amplification II	3
CSAD 632	Pediatric and educational audiology	3
Semester 4: Fall (13 Units)		
CSAD 640	Clinical methods: Current topics in audiology	1
CSAD 641	Auditory evoked potentials	3
CSAD 641L	Auditory evoked potentials lab	1
CSAD 642	Industrial audiology and hearing conservation	3
CSAD 643	Tinnitus	3
CSAD 640C	Audiology clinic IV	1
CSAD 501	Audiology doctoral project I	1
Semester 5: Spring (12 Units)		
CSAD 502	Audiology doctoral project II	1
CSAD 650	Clinical methods: Billing and coding	1
CSAD 650C	Audiology clinic V	1
CSAD 651	Objective measures	3
CSAD 652	Pediatric habilitation	3
CSAD 653	Diagnosis and management of vestibular disorders	3
Semester 6: Summer (9 Units)		
CSAD 503	Audiology doctoral project III	1
CSAD 660	Clinical methods: Legal/ethical issues	1
CSAD 660C	Audiology clinic VI	2
CSAD 661	Aural rehabilitation	3
CSAD 662	Implantable devices and technology	2
Semester 7: Fall (11 Units)		
CSAD 504	Audiology doctoral project IV	1
CSAD 670	Clinical methods: Professional issues	1
CSAD 670C	Audiology clinic VII	2
CSAD 671	Counseling in audiology	3
CSAD 672	Central auditory processing disorders	3
CSAD 673	Pharmacology and ototoxicity	1
Semester 8: Spring (10 Units)		
CSAD 681	Practice management	2
CSAD 682	Aging and the auditory system	2
CSAD 683	Speech-language pathology for audiologists	1
CSAD 680C	Audiology clinic VIII	2
CSAD 680	Clinical methods: Differential diagnosis	1
CSAD 505	Audiology doctoral project V	1
CSAD 520	Audiology comprehensive exam	1
Semester 9: Summer (9 Units)		
CSAD 710	Clinical methods: Externship I	2
CSAD 710E	Audiology Externship I	7
Semester 10: Fall (9 Units)		
CSAD 720	Clinical methods: Externship II	2
CSAD 720E	Audiology Externship II	7
Semester 11: Spring (9 Units)		
CSAD 730	Clinical methods: Externship III	2
CSAD 730E	Audiology Externship III	7
Total Units		118

MS in Communication Sciences and Disorders

Total units required for MS: 58-60 units

Program Description

Employment as a Speech-Language Pathologist in California requires both a Master's degree and a credential or license. Completion of the Master's degree provides the training necessary for students to qualify for the American Speech-Language-Hearing Association's Certificate of Clinical Competence in Speech-Language Pathology, the California

State License in Speech-Language Pathologist and the California Speech-Language Pathology Services Credential. The Department also prepares students to apply for the Special Class Authorization, an extension of the Speech-Language Pathology Services Credential, required to teach a classroom of students with primary disabilities in the area of speech and language impairment (Other experiences and exams are also required; these will be described below under 'Additional Information').

Admission Requirements

- Students must have an undergraduate degree (or its equivalent) in Speech-Language Pathology, Communication Sciences and Disorders, or its approved equivalent.
- Students must understand that admission preference is given to students whose undergraduate curriculum is equivalent to Sacramento State's Communication Sciences and Disorders Undergraduate Curriculum.
- Students must have completed the required major prerequisite coursework as delineated in the Undergraduate Program Catalog description for Communication Sciences and Disorders at Sacramento State before beginning graduate-level coursework in Communication Sciences and Disorders. [Pre-requisites: CHDV 30, PSYC 2, Statistics, DEAF 51, or their equivalents].
- Students must have completed a university-level course covering the basic principles of either physics **or** chemistry.
- Students must have an overall GPA of 2.75 and a 3.00 GPA in the major.
- Domestic applicants with foreign documents and international students (F-1 or J-1 visa applicants) must consult the Office of Graduate Studies and Global Education/International Admissions Department for specific application instructions. These students must also submit TOEFL scores. Consult the Department website for department-specific TOEFL scores.
- Successful passage of all three sections of CBEST (waived for the Fall 2021 Admissions Cycle due to COVID-19).
- GRE scores obtained in the last 5 years (waived for the Fall 2021 Admissions Cycle due to COVID-19).
- Three letters of recommendation.
- Oral and written essay.
- Resume of related work, volunteer and multicultural experience, and any scholarships, awards or other commendations.
- Documentation of completed observation hours.
- Students must consult the Department website for additional current admission requirements and procedures.

Communication Sciences and Disorders Graduate Program Policies and Procedures

1. A student must have a 3.0 GPA in the major in order to graduate with a Master of Science Degree in Communication Sciences and Disorders. To achieve this GPA, students may not earn a grade of less than a B in any major didactic course or a grade of B- in any clinical practicum. Repeated course grades will either be forgiven or averaged with the new grade according to the campus graduate policy on repeating courses. Students failing to maintain a GPA of 3.00 are automatically placed on academic probation. The student then has one semester to make up the grade point deficiency or s/he will not be allowed to continue the graduate program and will be dismissed. Any student who has failed any two clinical practicum courses will not be allowed to continue in the graduate program and will be dismissed.
2. Prior to enrolling in any Clinical Practica, students must fulfill the following criteria:
   a. Proof of negative tuberculin (PPD) test and verification of measles, rubella, and hepatitis B immunization series.
   b. Completion of a Level 1 criminal background check. Background checks must be conducted by the department-sanctioned agency. Refer to Department webpage for current agency instructions. Background checks performed by other agencies are not accepted.
   c. Students must complete all clinical practica in the proscribed sequence. Students who have not completed a given semester's clinical practica will not be allowed to progress into subsequent clinical practica including internships.
   d. Current certification in Cardiopulmonary Resuscitation (CPR) for Health Care Providers.
3. Students must meet clock-hour requirements for the American Speech-Language and Hearing Association (ASHA) Certificate of Clinical Competence (CCC), California License in Speech-Language Pathology and the California Speech-Language Pathology Services Credential with or without Special Class Authorization.
4. Internship requirements: Documentation of the following is required by the end of the second clinical semester:
   a. Current certification in Cardiopulmonary Resuscitation (CPR) for Health Care Providers.
   b. Complete Certificate of Clearance.
   c. Pass the California Basic Educational Skills Test (CBEST)
   d. Students must complete CSAD 295I and CSAD 295M. Optional additional clinical practica are: CSAD 295S and CSAD 295P
5. Students must furnish their own transportation to off-campus practicum sites.
6. Students must explore and complete additional internship requirements as delineated by each site.
7. Clock hours from the following may be counted for the CCC and California License in Speech-Language Pathology only if the on-site supervisors have their CCCs and California License in Speech-Language Pathology:

Code	Title	Units
CSAD 295I	Internship: Speech-Language and Hearing Services in Schools (SLHS)	4
CSAD 295M	Internship: Speech-Language Pathology in a Medical Setting	4
CSAD 295P	Internship: Speech-Language Pathology in Private Practice	4
CSAD 295S	Internship: Special Class Authorization Eligibility	4

8. Students must complete 100 supervised, direct-client-contact practica hours over forty-five work days in CSAD 295I and in the optional CSAD 295S.
9. Students must meet the clinical practicum requirements for the Certificate of Clinical Competence (CCC) and the California License in Speech-Language Pathology at the time of graduation in order to receive the Master's Degree.
10. Students must submit a signed record of all observation hours and supervised clinical clock hours to the Department of Communication Sciences and Disorders. Students should retain multiple copies for their personal records.

11. Advancement to Candidacy: Students must file for Advancement to Candidacy per Office of Graduate Studies procedures as posted on their website.

Additional Information

Program Completion

If the Bachelor's Degree in Communication Sciences and Disorders, or its equivalent, has been completed at another University, additional time may be needed to complete the undergraduate requirements not already met. If courses are waived at Sacramento State because they were taken at another University, the student must have an adequate number of graduate units at Sacramento State in the major to meet the MS degree requirements and ASHA graduate-level requirements.

Certificate of Clinical Competence

A Master of Science Degree from Sacramento State fulfills the academic and clinical requirements for the Certificate of Clinical Competence (CCC), which is granted by the American Speech-Language-Hearing Association (ASHA). The student must complete a Clinical Fellowship (one year of paid professional experience under supervision) and pass the appropriate PRAXIS exam before the certificate is granted. The Certificate of Clinical Competence is required for most employment positions, both in the public schools and in other settings.

Licensure

A Master of Science Degree from Sacramento State fulfills the academic and clinical requirements for the California License in Speech-Language Pathology. The license is required for employment in settings other than schools or federal agencies. Students must complete a Clinical Fellowship Year (one year of paid professional experience under supervision) and pass the appropriate PRAXIS exam before the license is granted.

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the department graduate coordinator who can be reached at (916) 278-6601.

Credential

A Master of Science Degree from Sacramento State fulfills the academic and clinical requirements for the California Speech-Language Pathology Services Credential. This credential authorizes the individual to work as an itinerant speech-language pathologist in the California public schools. This requires a minimum of 200 clock hours of clinical practice with minors. One hundred of these hours must be in a public school setting. In addition, the applicant may also qualify as a teacher of a special day class for students with primary disabilities in the area of speech and language impairment by acquiring the Special Class Authorization. This authorization, an extension of the Speech-Language Pathology Services Credential, requires completion of the SPHP 295S: Special Day Class Internship, passage of the Reading Instruction Competence Assessment (RICA), and passage of appropriate California Subject Matter examinations for Teachers (CSET: Multiple Subjects OR a single subject CSET in the areas of art, English, foreign language, mathematics including foundational-level mathematics, music, social science, or foundational-level general science). Note: For students with undergraduate degrees in the single subject areas listed above, completion of a subject matter program in one area or an applicable subject matter waiver program may fulfill this subject matter requirement.

For more information on these examinations, the student is referred to the CTC Exams website (http://www.ctcexams.nesinc.com).

Candidates must pass the California Basic Education Skills Test (CBEST).

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the department graduate coordinator who can be reached at (916) 278-6601.

Minimum Units and Grade Requirement for the Degree

Units required for the MS: 58-60

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Students must advance to candidacy before they can enroll in CSAD 500C, CSAD 500P, or CSAD 500T (see culminating experience below).

Program Requirements

Graduate courses are designed for students to begin in the fall semester and progress in a proscribed sequence. Students are admitted into the program in two cohorts. The first cohort (Fall Clinical Practica Cohort) begins clinical practica and coursework in the fall semester and can expect to graduate in a minimum of 4 semesters. The second cohort (Spring Clinical Practica Cohort) begins coursework in the fall semester and begins clinical practica in the spring semester. This group can expect to graduate in a minimum of 5 semesters.

Fall Clinical Practica Cohort

Semester 1: Fall		Units
CSAD 218	Motor Speech Disorders	3
CSAD 223	Advanced Seminar in Child Language Disorders	3
CSAD 228A	Speech Sound Disorders: Concepts and Methods	2
CSAD 229A	Practice: Speech Disorders I	2
CSAD 241S	Practice: Hearing Screenings	1
CSAD 242A	Methods: Language Disorders I & Professional Writing-Field of Speech-Language Pathology & Audiology	2
CSAD 243A	Practice: Language Disorders I	2
	Units	15

Semester 2: Spring		
CSAD 217	AAC and Assistive Technologies	2
CSAD 221	Neurogenic Language Disorders	4
CSAD 222	Curriculum in Relation to Language -- Learning Disabilities in School-age Children	3
CSAD 228B	Voice and Fluency: Concepts and Methods	3
CSAD 229B	Practice: Speech Disorders II	2
CSAD 242B	Methods: Language Disorders II	1
CSAD 243B	Practice: Language Disorders II	2
	Units	17
Semester 3: Fall		
CSAD 219	Counseling Techniques for Speech Pathologists and Audiologists	3
CSAD 227	Dysphagia and the Medical Setting	3
CSAD 228C	Methods: Speech Disorders III	1
CSAD 229C	Practice: Speech Disorders III	2
CSAD 242C	Methods: Language Disorders III	1
CSAD 243C	Practice: Language Disorders III	2
CSAD 244	Methods: Speech -- Language Assessment	1
CSAD 245	Practice: Speech -- Language Assessment	1
CSAD 500T or CSAD 500P	Culminating Experience: Thesis [3] or Culminating Experience: Project	2
	Units	16
Semester 4: Spring		
CSAD 250	Speech/Language Internships Seminar	2
CSAD 295I	Internship: Speech-Language and Hearing Services in Schools (SLHS) [1]	4
Select one of the following:		4
CSAD 295M	Internship: Speech-Language Pathology in a Medical Setting	
CSAD 295P	Internship: Speech-Language Pathology in Private Practice	
CSAD 295S	Internship: Special Class Authorization Eligibility	
Select one of the following:		2
CSAD 500C	Culminating Experience: Comprehensive Exam	
CSAD 500P	Culminating Experience: Project	
CSAD 500T	Culminating Experience: Thesis	
	Units	12
Semester 5: Fall		
Semester 5 is optional [2]		
Select one or two of the following:		
CSAD 295M	Internship: Speech-Language Pathology in a Medical Setting	
CSAD 295P	Internship: Speech-Language Pathology in Private Practice [1, 2]	
CSAD 295S	Internship: Special Class Authorization Eligibility [1, 2]	
	Units	0
	Total Units	60

1. Minimum of 8 units of internships required for the Master of Science Degree in Communication Sciences and Disorders.
2. If a student elects to pursue an additional internship experience, then the student may enroll in one or more of these experiences.
3. Students completing a thesis or project must enroll in two units of CSAD 500T or CSAD 500P in semester 3 **AND** semester 4. Students completing the comprehensive examination must enroll in 2 units of CSAD 500C in semester 4.

Spring Clinical Practica Cohort

Semester 1: Fall		**Units**
CSAD 218	Motor Speech Disorders	3
CSAD 223	Advanced Seminar in Child Language Disorders	3
	Units	6
Semester 2: Spring		
CSAD 221	Neurogenic Language Disorders	4
CSAD 222	Curriculum in Relation to Language -- Learning Disabilities in School-age Children	3
CSAD 228A	Speech Sound Disorders: Concepts and Methods	2
CSAD 229A	Practice: Speech Disorders I	2
CSAD 241S	Practice: Hearing Screenings	1
CSAD 242A	Methods: Language Disorders I & Professional Writing-Field of Speech-Language Pathology & Audiology	2
CSAD 243A	Practice: Language Disorders I	2
	Units	16
Semester 3: Fall		
CSAD 219	Counseling Techniques for Speech Pathologists and Audiologists	3
CSAD 227	Dysphagia and the Medical Setting	3
CSAD 228B	Voice and Fluency: Concepts and Methods	3
CSAD 229B	Practice: Speech Disorders II	2
CSAD 242B	Methods: Language Disorders II	1
CSAD 243B	Practice: Language Disorders II	2
	Units	14
Semester 4: Spring		
CSAD 217	AAC and Assistive Technologies	2
CSAD 228C	Methods: Speech Disorders III	1
CSAD 229C	Practice: Speech Disorders III	2
CSAD 242C	Methods: Language Disorders III	1
CSAD 243C	Practice: Language Disorders III	2
CSAD 244	Methods: Speech -- Language Assessment	1
CSAD 245	Practice: Speech -- Language Assessment	1

CSAD 500T or CSAD 500P	Culminating Experience: Thesis [3] or Culminating Experience: Project	2
	Units	12
Semester 5: Fall		
CSAD 250	Speech/Language Internships Seminar	2
CSAD 295I	Internship: Speech-Language and Hearing Services in Schools (SLHS) [1]	4
Select one of the following:		4
CSAD 295M	Internship: Speech-Language Pathology in a Medical Setting [1]	
CSAD 295P	Internship: Speech-Language Pathology in Private Practice	
CSAD 295S	Internship: Special Class Authorization Eligibility	
Select one of the following:		2
CSAD 500C	Culminating Experience: Comprehensive Exam	
CSAD 500P	Culminating Experience: Project	
CSAD 500T	Culminating Experience: Thesis	
	Units	12
Semester 6: Spring		
Semester 6 is optional [2]		
Select one of the following:		
CSAD 295M	Internship: Speech-Language Pathology in a Medical Setting	
CSAD 295P	Internship: Speech-Language Pathology in Private Practice [1, 2]	
CSAD 295S	Internship: Special Class Authorization Eligibility [1, 2]	
	Units	0
	Total Units	60

[1] Minimum of 8 units of internships required for the Master of Science Degree in Speech-Language Pathology.

[2] If a student elects to pursue an additional internship experience, then the student may enroll in one or more of these experiences.

[3] Students completing a thesis or project must enroll in two units of CSAD 500T or CSAD 500P in semester 3 **AND** semester 4. Students completing the comprehensive examination must enroll in 2 units of CSAD 500C in semester 4.

Culminating Experience

1. A student working toward a master's degree may choose as a Culminating Experience either a Thesis CSAD 500T, Project CSAD 500P, or Comprehensive Examination CSAD 500C.
2. **In order to enroll in** CSAD 500T, CSAD 500P, or CSAD 500C **a student must have been advanced to candidacy**.
3. A student may not register for CSAD 500T unless the following conditions have been met:
   - The first and second readers judge that the first two chapters of the thesis or project (literature review and methodology) are sufficiently well-developed.
   - Her/his proposal has been approved by the Culminating Experience Committee no later than the 11th week of the second clinical semester. The proposal must include the first two chapters specified above.
   - Institutional Review Board (IRB) approval has been obtained. ***It is possible for this process to take up to a full academic year.***
   - Written approval of the first reader has been accepted by the Department Chair.
4. No subjects may be recruited until the student has registered for CSAD 500T and has received Institutional Review Board (IRB) approval.
5. A student may not register for CSAD 500P until the following conditions have been met:
   - The first and second readers judge that her/his written proposal describing the project's significance, objectives, methodology, and conclusions or recommendations are sufficiently well-developed.
   - Her/his proposal has been approved by the Culminating Experience Committee no later than the 11th week of the second clinical semester. The proposal must include the first project description specified above.
   - Written approval of the first reader has been accepted by the Department Chair.
   - Institutional Review Board (IRB) approval obtained, if applicable. ***It is possible for this process to take up to a full academic year.***
6. A student enrolled in CSAD 500T or CSAD 500P may switch to the CSAD 500C Comprehensive Exam with approval from the Culminating Experience Committee and submission of a Petition for Exception form. ***There is no reversal of this change.***

Thesis (CSAD 500T)

- **Definition:** A thesis is an independent research study conducted by the student under the supervision of members of the faculty. A thesis must involve a research question or hypothesis, review of pertinent literature, and the collection and analysis of data. It is the student's responsibility to locate and recruit subjects and to collect the data, as well as to write the thesis. A thesis that includes the generation of original data is preferred; however, proposals based on file data or other secondary data sources will be considered.
- **Supervision:** A thesis is supervised by a committee of two or more faculty members in the Department of Communication Sciences and Disorders. The 'first reader' is the chair of the committee, and the student's primary advisor and editor. The 'second reader' evaluates the thesis at the beginning, consults on the development of the manuscript as necessary, and must approve the final manuscript.
- **Credit:** A student enrolls in two units of CSAD 500T each semester he/she works on the thesis, up to a total of four units. If the thesis is not completed within two semesters the student may enroll in continuous enrollment (CSAD 599), if not otherwise actively enrolled, for two additional semesters. Students are allowed a maximum of three semesters past the semester of first registering in CSAD 500T to complete their thesis for a maximum of four semesters total. Students who do not finish the thesis within the first semester of enrolling in CSAD 500T will receive a grade of 'Report in Progress' (RP). If a student does not complete the thesis within the four total semesters, s/he will receive a No Credit (NC) grade for the original units and must enroll in CSAD 500C for the culminating experience.

Project (CSAD 500P)

- **Definition:** A project is a significant undertaking appropriate to the professional fields of Speech-Language Pathology or Audiology. It must evidence originality and independent thinking, appropriate form and organization, and a rationale. It must be described and summarized in a written document that includes the

project's significance, objectives, methodology, and a conclusion or recommendation. The project can be, but is not limited to, a curriculum project that contributes to the fields by enhancing communication of the subject matter or a research project that contributes to the fields by adding to the professional knowledge base.

- **Supervision:** A project is supervised by a committee of two or more faculty members in the Department of Communication Sciences and Disorders. The 'first reader' is the chair of the committee, and the student's primary advisor and editor. The 'second reader' evaluates the project at the beginning, consults on the development of the project as necessary, and must approve the final project.
- **Credit:** A student enrolls in two units of CSAD 500P each semester he/she works on the project, up to a total of four units. If the project is not completed within two semesters, the student may enroll in continuous enrollment (CSAD 599) , if not otherwise actively enrolled, for two additional semesters. Students are allowed a maximum of three semesters past the semester of first registering in the CSAD 500P to complete their project for a maximum of four semesters total. Students who do not finish the project within the first semester of enrolling in CSAD 500P will receive a grade of 'Report in Progress' (RP). If a student does not complete the project within the four total semesters, she/he will receive a No Credit (NC) grade for the original units and must enroll in CSAD 500C for the culminating experience.

Comprehensive Exam (CSAD 500C)

- Definition: Written exam comprised of eight questions. Examinees are given one-and-a-half hours to complete each question.
- Comprehensive Exams are scheduled once per semester at the discretion of the department.
- Upon completion and review by the examiners, each question is given a grade of "Outstanding", "Pass', 'Pass with Conference' or 'No-Pass.'
  a. 'Pass' indicates a satisfactory completion of the question.
  b. 'Pass with Conference' indicates a pass, but the examiner requires oral or written clarification of the answer from the student. This must be completed before the 14th week of the semester in which the exam is taken. Conferences are scheduled at the discretion of the examiner.
  c. 'No-Pass' indicates an unsatisfactory answer.
- The student may receive a "No-Pass" for up to two questions without retaking the entire exam. These "No-Pass" questions must be rewritten under the direction of the examiner.
- Question rewrites must be successfully completed with a grade of "Pass" before the 14th week of the semester in which the exam is taken.
- If any rewritten question is not passed, the student receives a grade of No Credit (NC) for CSAD 500C.
- If three or more questions of the exam receive a grade of "No-Pass", the student receives a grade of No Credit (NC) for CSAD 500C.
- Student receiving a grade of No Credit (NC) for CSAD 500C must register again in CSAD 500C and retake the comprehensive exam in its entirety at the next scheduled administration.
- The same conditions for grading apply on a retaken comprehensive exam as on the first attempt. Students may take CSAD 500C no more than **two times**.

Criminal Justice

College of Health and Human Services

Program Description

Criminal Justice encompasses multidisciplinary examinations of crime, crime control, the justice process, and justice institutions. The discipline addresses definitions, causation, prevention, investigation, legal process, treatment, rehabilitation, and research relating to crime and justice as well as the institutions of the justice system and their administration.

The comprehensive program at Sacramento State covers every aspect of the field. Courses are offered which span the entire system of justice administration in both public and private sectors.

The Division of Criminal Justice:

- Seeks to identify and increase understanding of major social issues related to crime, offenders, prevention and control, and victims.
- Features a large and diverse faculty combining scholars from a variety of disciplines who have contributed extensively to the justice field with practitioners who have many years of experience in justice administration.
- Offers a flexible undergraduate major, including the option of internship, and highly-structured advising. Advising allows the student to shape an undergraduate program specifically to prepare for employment in multiple areas of criminal justice, advanced study in criminal justice, or law school.
- Features a Master of Science program that offers students a generalist degree focused on a variety of areas within the field of Criminal Justice including, but not limited to, criminological theory and research methods, corrections, policing, law and justice, restorative justice, victimology, juvenile justice, white collar crime, terrorism, and comparative criminal justice. In addition, we offer experimental courses in areas with a growing body of research such as the mentally ill and the criminal justice system and emergency management.

Many graduates find positions with various federal, state, and local criminal justice agencies. Others have pursued advanced study in criminology and law. Employment opportunities for Criminal Justice majors have remained strong for the past decade, both with government agencies and in private security, and future demand appears assured.

The Criminal Justice program at Sacramento State is one of the most highly sought-after programs in Northern California. Due to the large number of applications, the program is now officially impacted. Students wishing to become Criminal Justice majors must complete a series of required lower division courses and then apply for admission to the program. It is highly recommended that interested students speak with the Criminal Justice Student Advising Center as early as possible.

Degree Programs

BS in Criminal Justice (p. 662)

Minor in Criminal Justice (p. 665)

Minor in Forensics Investigations (Chemistry and Biology Majors Only) (p. 665)

Certificate in Law Enforcement (p. 664)

MS in Criminal Justice (p. 665)

Career Possibilities

Investigative positions, most with law enforcement authority, with federal, state, and local agencies such as the FBI, ATF, Secret Service, DEA, Homeland Security Administration, state level Departments of Justice, Alcohol Beverage Control, Department of Motor Vehicles, District Attorney's and Public Defender's Offices · Includes uniformed peace officer positions within local and state governments, such as: police officer, deputy sheriff, highway patrol, and natural resources officer, including crime scene specialists, and crime analysts · Correctional peace officer positions including state and local probation officers and parole agents within adult and juvenile correctional systems · Includes non-sworn correctional counselors and administrators. Private corporate security agents and investigators such as those employed by banks and insurance companies and transportation companies, including loss-prevention specialists · Victim services and officer services positions within a wide variety of social service agencies related to crime, justice, and rehabilitation · In addition, graduates can pursue advanced degrees in law or research disciplines, and may apply to military officer candidate schools.

Contact Information

Ernest Uwazie, Division Chair
Criminal Justice Business Office, Alpine Hall 137
(916) 278-6487
Destiny Effiong, Coordinator of Criminal Justice Advising Center
Alpine Hall 133
(916) 278-6485
Division of Criminal Justice Website (http://www.csus.edu/HHS/CJ/)

Faculty

BOGAZIANOS, DIMITRI

CANTON, CECIL

CROISDALE, TIM

ESCOBAR, SUE

FARMER, YVETTE

GETTY, RYAN

GUTIERREZ, RICKY

HUANG, SHIHLUNG

JONES, MARLYN

KARAS, STEPHANIE

KUBICEK, LAURIE

LEE, LYNETTE

LOVING, RUSSELL

MIZRAHI, STEPHANIE

NOBLE, JENNIFER

OKADA, DANIEL

REN, XIN

SARDINA, ALEXA

SCHNURBUSH, KIM

SINGER, JENNIE

SWIM, DAVID H.

UWAZIE, ERNEST

VALADEZ, MERCEDES

Law as a Career

Lawyers are often called upon to fill many varied and complex roles. At various times they function as advocates, social planners, and mediators. Because society turns most frequently to the legal profession when it looks for a method of balancing changing conditions and traditional values, lawyers are social planners. Lawyers play a weighty role in our society and have a tremendous responsibility, not only to the citizenry which they serve, but also to the law itself, and to the concept of justice, to which they must be committed.

Pre-Law Education

The student's cumulative undergraduate GPA and his/her score on the *Law School Admissions Test* (LSAT) are the primary factors on which law schools base their admissions decisions. The importance of these factors cannot be overestimated. Assuming that you qualify in this manner for admissions, your undergraduate course of study plays a role in preparing for the study and practice of law. Students interested in law school should visit the Law School Admission Council's website www.lsac.org (http://www.lsac.org/) early in their college careers in order to learn about the process of preparing for and applying to law school.

Undergraduate Program

It would be unwise and, perhaps, impossible to prescribe a specific course of study and assert that it is the best one can receive in preparation for entering law school. Therefore, there is no established major for pre-law students. In 1988, the Association of American Law Schools (AALS) expressed the view that the "quality of education is concerned with the development of basic skills and insights. It thus involves education for:

1. comprehension and expression in words;
2. critical understanding of the human institutions and values with which the law deals;
3. creative power in thinking;
4. knowledge of computers and word processing.'

While no one major embraces all of these characteristics and, while personal development in these areas is an individualistic effort molded to one's particular strengths, weaknesses, and interests, the University offers numerous courses which give training in these skills. The following areas of study encompass these recommendations and suggest courses which prepare students for the study and practice of law.

- **Business:** When an individual becomes a lawyer, he/she also becomes a member of the business community; hence, classes in business are beneficial to the pre-law student. Competence in this field can make the difference between an organized, successful lawyer and a bewildered, ineffective one. Furthermore, the practical

judgment one develops in business classes frequently allows one to penetrate the legal maze and to quickly reach the important issues of any case.

- **Computer Science:** In an age where information storage and problem solving is increasingly accomplished by computers, a lawyer cannot afford to venture into the future without a working knowledge of computers.
- **Criminal Justice:** The Division of Criminal Justice includes three law courses in its core curriculum and offers the option of additional law and constitutional theory courses among its electives. The department offers intern placements in law related positions. Law courses are instructed in the case study method used in law schools. This instruction allows a student to determine their level of interest and aptitude for legal studies while still an undergraduate. Several members of the teaching faculty are attorneys, and law courses are taught by attorneys licensed by the bar. In addition, the major in criminal justice offers a general orientation to the justice field and provides students a suggested pre-law course of study engineered to provide an excellent foundation for the study of law.
- **Economics:** As the AALS asserts: "Economics is a science that calls upon the student to master patterns of thought, to explore questions of causation and to probe potentials for solutions." Since many legal problems ultimately involve economic issues, a study of economics will benefit the pre-law student.
- **History and Government:** We are a product of yesterday in our society, our customs and our laws. Without a general understanding of history and how it relates to our present state, the lawyer cannot appreciate the intimate relationship laws have with our culture. By failing to comprehend the relationship between our society, its governmental institutions, and its laws, one risks not understanding certain laws intelligible only in terms of their historical and institutional significance.
- **Logic and Mathematics:** Since the law is abstract, those considering law school need training in the reasoning powers essential for dealing with abstract concepts. The study of logic and mathematics provides the practice needed for developing the ability to think logically.
- **Oral and Written Communication:** The lawyer is primarily a communicator; whether in the courtroom or in the legislature, as a counselor or negotiator, he/she must know how to communicate on many levels with precision and style.
- **Philosophy:** A sizable number of students of philosophy go on to law school and there are now many successful philosopher-lawyers. This is no mere coincidence. Legal questions often raise issues of profound philosophical import. And the two fields share many of the same methods of reasoning and argumentation. The Philosophy Department's Major Concentration in Applied Ethics and Law is specifically designed to prepare prospective students for the intellectual rigors of law school.
- **Science and Engineering:** Students who concentrate in the sciences or in engineering develop the ability to think clearly and concisely. The rigor and discipline required in these courses is valuable training for the law school years.
- **Social Sciences:** Since both law and social science deal with behavior and its implications, lawyers draw on the social sciences for an understanding of human behavior. Applying the tools of the other social sciences to the practice of law enhances the effectiveness of the attorney.

Obviously, one cannot receive degrees in all of these areas; it is suggested that the pre-law student choose a major which interests him/her and supplement this curriculum with as many courses from other areas as possible. In addition to this, the pre-law student should read widely in areas outside the major.

Pre-Law Student Organization

The Phi Alpha Delta Law Fraternity International has been formed by pre-law students to meet the needs of students interested in preparing for a career in law. CSU, Sacramento has an active Phi Alpha Delta chapter and information about joining can be acquired by visiting one of the campus pre-law advisors.

Grades

Good grades are essential to those interested in being accepted at a well regarded school. However, it should be clear that one does not benefit from being so grade conscious that the major criterion for course selection becomes the likelihood of receiving an 'A.' Tough, demanding professors and courses are essential for training the mind to perform well under the pressures of law school. Challenging, thought-provoking courses are the best way to prepare for the LSAT, for success in law school and as a member of the legal profession. Moreover, when undergraduate transcripts are viewed by law school admission committees, a great deal of attention is given to the difficulty and the desirability of the courses chosen by the student. For law school admission, grades of 'I' (Incomplete) or 'W' (Withdrawal) are not included in computing the overall GPA. However, a grade of "WU" or 'NC' (No Credit) is counted as an 'F,' and if a course is repeated, the two grades are averaged. Students should also note that failure to complete work for a grade posted as "I" will result in the "I" converting to an "F" after two semesters.

LSAT

The LSAT is the second major factor considered by law schools in determining admissibility. It is administered by the Law School Admission Council (LSAC). Everything a student needs to know about the LSAT is available at www.lsac.org (http://www.lsac.org/). The test measures abilities and skills related to problem identification, analysis, logical reasoning, and reading. In addition, the LSAT includes a written essay, copies of which will be sent to individual law schools to enable them to evaluate a candidate's writing ability. Because many law schools consider the LSAT as influential, or more influential, than the GPA, it is important that students prepare for the test very carefully. Students who believe they may qualify for a fee waiver because of serious financial need should apply for the LSAC fee waiver at www.lsac.org. The fee waiver will cover the student's LSAT and Credential Assembly Service fees as well as provide materials that will enable the student to prepare for the LSAT.

There are a number of preparation courses available for students intending to take the LSAT. Students are advised to investigate particular review classes and to assess their ability to prepare successfully for the LSAT without benefit of these often costly courses. The best LSAT preparation materials are those published by the LSAC.

Letters of Recommendation

Most law schools require between one to three letters of recommendation from individuals who can comment on the applicant's potential as a law student. The individuals selected to write letters of recommendation should be able to comment extensively on the applicant's academic capabilities. And, obviously, the evaluation should be a positive one. Letters should also discuss the applicant's ability to comprehend, to communicate, and to critically analyze concepts.

Credential Assembly Service

Student's must register for the Credential Assembly Service (CAS) at www.lsac.org (http://www.lsac.org/) in order to submit applications for American Bar Association accredited law schools. There is a fee associated with registration for the CAS which is waived if the student is approved for the LSAC fee waiver. The CAS compiles a report that contains the student's personal information, LSAT score(s), transcripts, letters of recommendation and, if prepared, recommender evaluations. The student completes each individual law school application online using their account at www.lsac.org (http://www.lsac.org/). Once the student has submitted the application the law school requests the CAS report and it is transmitted electronically to them by the LSAC.

Personal Statement

Most law schools require the applicant to submit a personal statement in which the applicant tells the law school something about the applicant's background, the reasons why the applicant wants to study law, and, in some instances, what the applicant hopes to do following law school. This is an extremely important component of the application. It provides the student with an opportunity to share their personal background and experiences with the law school admissions committee. Students should take time to carefully craft the personal statement and should seek advice from trusted friends, professors and their pre-law advisor to help them in the writing process.

Pre-Law Advisors

Laurie Kubicek, Criminal Justice
Alpine Hall 103, 278-5066

Russell Loving, Criminal Justice
Alpine Hall 110, 278-6473

Stephanie Mizrahi, Criminal Justice
Alpine Hall 107, 278-6387

Jennifer Noble, Criminal Justice
Alpine Hall 209, 278-5706
www.csus.edu/HHS/CJ/Advising/prelaw.html (http://www.csus.edu/HHS/CJ/Advising/prelaw.html)

CRJ 1. Introduction to Criminal Justice and Society. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Reviews the problem of crime and the societal response to criminals. Institutions discussed are those intended to discover the crime and the criminal and those designed to deal with the criminal, the victim, and society, once the criminal has been labeled. Finally, the bureaucracy of crime and its measurement as a social phenomenon are discussed.

CRJ 2. Law of Crimes. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the case method of studying criminal law. Understanding and correlating the common law crimes and substantive law crimes. Study and emphasis on the classification and nature of crimes, the requisite elements of the major common law felonies and criminal responsibility of various persons involved in crime.

CRJ 4. General Investigative Techniques. 3 Units
Term Typically Offered: Fall, Spring

Techniques involved in the investigation of crimes; interview of victims and witnesses; questioning of suspects; organization and procedure in the investigation of crimes; crime scene searches; surveillance; use of scientific aids; and sources of information.

CRJ 5. The Community and the Justice System. 3 Units
Term Typically Offered: Fall, Spring

Examines complex, dynamic relationships between communities and the justice system in addressing crime and conflict with emphasis on the challenges and prospects of administering justice within a diverse, multicultural population and the roles played by race, ethnicity, gender, religion, sexual orientation, age, social class, culture, and justice professionals in shaping relationships within the justice system. Special topics include crime prevention, restorative justice, and conflict resolution and pure justice.

CRJ 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Also provide students with an opportunity to interact with fellow students and the seminar leader and to build a community of academic and personal support.

CRJ 101. Introduction to Criminal Justice Research Methods. 3 Units
Prerequisite(s): Restricted to Criminal Justice majors
Term Typically Offered: Fall, Spring

Introduction to research methodologies used in the social sciences, with a special emphasis on those methods most often used in the study of crime and criminal behavior, police/court systems, and correctional institutions, policies, and programs. Students will acquire the knowledge and skills necessary to understand, critically analyze and assess descriptive and quantitative research studies. Topics include the roles of theory and ethics in research, hypothesis testing, and research design.

CRJ 102. Crime And Punishment. 3 Units
Prerequisite(s): Criminal Justice major
Term Typically Offered: Fall, Spring

This course provides an overview of the causes, consequences and responses to crime in society, with special emphasis on the use of theory and research to guide criminal justice policy and practice. The course surveys major theories of crime causation, examines consequences of crime on individuals and societies, and explores various perspectives on the appropriate role of criminal sanctions and offender treatment in modern day systems of justice.

CRJ 105. Delinquency, Prevention and Control. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

Comprehensive juvenile delinquency planning process and its contribution to effective delinquency prevention and control; new roles for delinquency control agencies (police, courts, and corrections); the Youth Service Bureau; innovative strategies in delinquency prevention programming.

CRJ 106. Analysis of Career Criminals. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

Observation and analysis of criminal career patterns using the following approaches: anthropological, autobiographical, psychological, psychiatric, and sociological. The examination of career criminal behavior patterns will focus upon: the process of induction into criminal activity; the deviant orientation of the professional criminal; the organization, life style, and activities of the specialized criminal; and the methodological problems associated with the measurement of recidivism.

CRJ 108. Domestic Crime and Violence. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

Detailed examination of the multiple causes, effects and dynamics of crime against children, spouses, domestic partners and the dependent elderly, the response of criminal justice agencies to these crimes and the impact of these crimes on their victims.

CRJ 109. Media, Crime, and Criminal Justice. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

Analyzes the social construction of crime by news and entertainment media and introduces criminal justice students to the manner in which the media influences and shapes crime in their own society and in the criminal justice system. Analyzes images of crime and the criminal justice system that are presented through the major mass media within America, including a detailed analysis of media institutions, American pop culture, and the construction of crime and justice. Exposes students to a new way of looking at crime problems and provide them with a deeper understanding of how crime and the criminal justice system are both socially constructed by the news and entertainment media.

CRJ 111. Women and the Criminal Justice System. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Survey of the roles of women as offenders, victims and employees in the criminal justice system. Examines statistics, research and the literature as it relates to female crime. Evaluates current patterns and practices of law enforcement, criminal courts and corrections relative to women as offenders, victims, and employees.

CRJ 112. Gangs and Threat Groups in America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of criminal organizations in America. The problems posed by 'anti-social groups,' their structure and their history in contemporary American society. The spectrum of social sciences is employed in an examination of 'illegal groups' and such issues as aggression and group dynamics. Styles such as street gangs, prison gangs and traditional organized crime are defined and studied.

CRJ 114. Sexual Offenses and Offenders. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Exploration of relevant factors and dimensions of sexual offenses and offenders related to the Criminal Justice system, its cliental and practitioners.

CRJ 115. Violence and Terrorism. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Systemically examines political violence, responses by government institutions to that violence and implications of both for the administration of justice. Content is structured along a continuum, ranging from small scale violence to mass violence - assassinations, terrorism by sub-national and transnational organizations, state terror and genocide. In recent years political violence has progressively drawn the American governmental institutions, particularly justice agencies, into the global picture of violence committed by both domestic and international terrorists.

CRJ 116. Restorative Justice and Conflict Resolution. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines concepts, principles, techniques of conflict resolution and restorative justice in contemporary US legal system, global peacebuilding, across cultures, and comparative justice practices. The centerpiece is a classroom simulation that introduces students to theoretic analysis and practical knowledge on resolution of conflicts and crime. Addresses nonviolent responses to inter/intra state and community conflicts. Topics include negotiation, mediation, victim offender reconciliation, alternative dispute resolution (ADR), circle sentencing, transitional justice, peace treaty, transformative justice, intergroup dialogues, etc.

CRJ 117. American Criminal Justice and Minority Groups. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Course examines the origins of racial/ethnic/gender/sex discrimination and disparities in the US justice system. Additionally, course provides a critical examination of the processes and outcomes of the justice system by reviewing the major theories of crime and number of minorities reported in crime data. Using discussions about various criminal justice policies and their impact on minority groups, the course assesses the changing dynamic of race relations and diversity in society and their influences on justice administration.

CRJ 118. Drug Abuse and Criminal Behavior. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Sociogenic review of the case histories and life styles of selected juvenile and adult offenders with a history of drug abuse. An inquiry into the drug scene, 'street' drugs, an examination of people who have abused drugs and have been guilty of delinquent or criminal acts for the purpose of determining the known and identified relationships between drug abuse and crime, and probing the many unknown relationships. A sustained and disciplined examination of the main issues and problems by the use of case studies, discussion groups, and student involvement.

CRJ 121. The Structure and Function of the American Courts. 3 Units
Prerequisite(s): declared majors or minors or chair permission.
Term Typically Offered: Fall, Spring

Overview of the Federal and State court structures including jurisdiction, venue, roles of court participants, due process and post arrest procedures employed in adjudication, trial process, appellate review. Constitutional issues such as discretion, indigent rights, right to counsel, discovery, pleas, bail and preventive detention, competency, evidence suppression, double jeopardy, and speedy trial will also be addressed.

CRJ 123. Law of Arrest, Search and Seizure. 3 Units
Prerequisite(s): Restricted to declared majors or minors or department chair permission.
Term Typically Offered: Fall, Spring

Current and recent developments relating to arrest, searches, and seizures; study of constitutional rights predominately associated with the Fourth, Fifth, Sixth and Fourteenth Amendments as related to criminal justice and its administration -- warrants, warrantless seizures, exclusionary rule, confession, eye-witness identification, electronic surveillance, entrapment, and state variance with federal rules. Case study method law course.

CRJ 125. Law of Responsibility. 3 Units
Prerequisite(s): Restricted to declared majors or chair permission.
Term Typically Offered: Spring only

Substantive criminal law of responsibility and culpability. Topics include legal cause, mens rea, negligence, intent and its equivalents, motive, immaturity, mental incapacitates, mistake, and affirmative defenses including authority and privilege as found in American statute and case law. A case method law course.

CRJ 126. Law of Evidence. 3 Units
Prerequisite(s): CRJ 121 and CRJ 123; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

Law of evidence as codified and its complimentary interpretations by the courts. Topics include the admission and exclusion of evidence, relevance, the hearsay rule and its exceptions, the use of writings and demonstrative evidence, judicial notice, order of proof and presumptions, and issues relating to witness competency and privileges. Constitutional exclusions and their impacts are not covered.

CRJ 127. Juvenile Law. 3 Units
Prerequisite(s): CRJ 102 and CRJ 121; restricted to CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

Overview of legal concepts and principles affecting the adjudication of delinquent children in juvenile and adult court systems, develops the ability to read and analyze difficult legal issues relating to juvenile law, and provides the information required to evaluate the effectiveness of the juvenile court system in the context of its stated rehabilitative goals and the potential impact of a shift in focus to a more retribution-oriented structure.

CRJ 128. Administrative Law for Public Safety Personnel. 3 Units
Prerequisite(s): CRJ 121 and CRJ 123; restricted to CRJ majors or chair permission
Term Typically Offered: Spring only

Administrative law is the study of the adjudicatory and law making processes that take place within administrative agencies of the executive branches of government. Further, it is a study of the legal relationship between those agencies and the legislature, the courts, and private parties. Particular attention will be paid to the Federal Administrative Procedures Act, and the California Administrative Procedure Act.

CRJ 130. Fundamentals of Corrections. 3 Units
Prerequisite(s): Restricted to declared CRJ majors or minors or department chair permission.
Term Typically Offered: Fall, Spring

Overview and critical analysis of contemporary correctional theory and practice. Comparison of mainline American corrections with historical, cross-cultural, philosophical and non-traditional views of corrections. Controversial issues in contemporary corrections, including prisoner rights, victimization, the death penalty, unions, institutional corrections, community corrections, future of corrections, correctional careers, and administration and staffing of correctional programs.

CRJ 131. Correctional Institutions. 3 Units
Prerequisite(s): CRJ 101, CRJ 102 and CRJ 130; restricted to declared majors or chair permission
Term Typically Offered: Fall, Spring

Role and function of the correctional institution in the administration of criminal justice. A review of institutional procedures: reception, classification, program assignment, mass custody, treatment programs, and release, including parole and discharge. The inmate social system and its relationship to the official world that contains it. The following topics will receive special attention: the determinate sentence; the confinement of repetitively violent offenders; the death penalty and its impact on prison management, inmate social services; prison reform; and the stresses experienced by institutional personnel.

CRJ 134. Community Based Corrections. 3 Units
Prerequisite(s): CRJ 101, CRJ 102 and CRJ 130; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

Role of local and state government in the development of community-based correctional programs; regional detention facilities; recent trends in jail organization and management; ex-offenders and employment; the impact of community corrections on the criminal justice system.

CRJ 136. Corrections Administration. 3 Units
Prerequisite(s): CRJ 101, CRJ 130 and CRJ 160; restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

Concepts of administration; corrections as a component of criminal justice; organization and management of correctional services and correctional institutions for delinquent youth and adult offenders; probation and parole; and the legal and political contexts of corrections.

CRJ 141. Police and Society. 3 Units
Prerequisite(s): Restricted to declared CRJ majors or minors or department chair permission
Term Typically Offered: Fall, Spring

Examination of the origins, philosophy, objectives and priorities of the police service in the U.S. A. holistic analysis of political, social, economic, legal and other factors impacting the relationship between the police and the society they serve. Police use of discretion, police roles, police and minority groups, police and protest groups, police brutality, and police ethics are also studied.

CRJ 142. Police Administration. 3 Units
Prerequisite(s): CRJ 101, CRJ 141 and CRJ 160; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

Concepts of organization and management; relationships between police agencies and the public, other criminal justice agencies, and other agencies of government; organization for delivery of police services: first response, crime investigation, youth services, vice, communications, and information management.

CRJ 144. Contemporary Issues in Police Administration. 3 Units
Prerequisite(s): CRJ 101 and CRJ 141; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

Roles of police in a democratic society; analysis of public disobedience to law; racial and ethnic group relationships with police; public, official, and police corruption; police discretion; professionalism; development of criminal intelligence.

CRJ 151. White Collar Crime. 3 Units
Prerequisite(s): Junior/Senior status, Criminal Justice or Fire Service Management major or chair permission
Term Typically Offered: Fall, Spring

Introduces students to a variety of white collar crime issues, including definitional complexities, the causes, frequency and impact of economic crime, and victim and offender profiles. Governmental corruption, organizational fraud, consumer and environmental offenses, anti-trust violations and international schemes will be covered. Students will also become familiar with methods used to investigate, prosecute and sentence white collar offenders. Policy considerations will be discussed for controlling national and international white collar crime.

CRJ 152. Interviewing and Detection of Deception. 3 Units
Prerequisite(s): CRJ 102; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

Principles and techniques of interviewing and detection of deception studied from communication, physiological and psycho-social points of view. Introduction to the use of the polygraph; laws pertaining to confessions and admissions.

CRJ 153. Advanced Criminal Investigation. 3 Units
Prerequisite(s): CRJ 102; restricted to declared CRJ majors or declared Forensic minor or have chair permission.
Term Typically Offered: Fall, Spring

Principles involved in the investigation of crimes; utilization of scientific aids in obtaining information from physical objects; concepts in obtaining information from and about people; concept of reconstruction of crime and profile of suspect; development of leads; investigative problems in major crimes; special problems in crime investigation.

CRJ 154. Introduction to Physical Evidence. 3 Units
Prerequisite(s): CRJ 102; restricted to declared CRJ majors or Forensic Investigation minor or chair permission.
Term Typically Offered: Fall, Spring

Provides an overview of the role of science in collecting and evaluating physical evidence as a component of the criminal investigation and legal processes. Various operations in the examination and interpretation of physical evidence are examined with emphasis on the role of science in supporting the investigator and in the litigation process. Suitable for both science and non-science majors.

CRJ 156. Introduction to Crime and Intelligence Analysis. 3 Units
Prerequisite(s): CRJ 101; must be a declared CRJ major or have chair permission.
Term Typically Offered: Fall, Spring

Introduction to crime and intelligence analysis with a special emphasis on those methods most often used in the study of crime and criminal behavior patterns. Students will acquire the knowledge and skills necessary toward understanding crime analysis, intelligence analysis and mapping geospatial data. Topics include theory, the history of crime analysis, crime analysis technologies, intelligence analysis, and types/functions of crime analysis.

CRJ 160. Justice and Public Safety Administration. 3 Units
Prerequisite(s): restricted to declared CRJ majors or minors or department chair permission.
Term Typically Offered: Fall, Spring

Examines the nature and development of public safety and criminal justice organizations in American society with attention to how the unique functions performed by these agencies has shaped and developed their nature. Particular emphasis is placed on understanding the unique problems generated by administration of bureaucratic, public agencies in a highly politicized environment. Examines the influence of social and political factors on justice and public safety organizations.

CRJ 162. Intergovernmental Relations, Finance and Budgeting for Public Safety Personnel. 3 Units
Prerequisite(s): CRJ 160 or PPA 100; Junior or Senior standing; must be a Criminal Justice or Fire Service Management Major.
Term Typically Offered: Fall only

An examination of the structure, organization and management of state and local government with particular attention to the interplay between governmental agencies that is focused on the operations and management of public safety agencies. Government leadership models, such as mayor and city manager will be examined. Finance, the state and local budgets, taxation, revenue and spending will be addressed.

CRJ 163. Leadership in Criminal Justice and Public Safety. 3 Units
Prerequisite(s): CRJ 160; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

Addresses role of leadership in shaping and directing complex justice and public safety organizations. Leadership styles, roles, communication, group dynamics and organizational culture are examined and applied to organizational maintenance, adaptation, and change. Also addresses the role of employee organizations and personal practices in shaping leadership options and styles in public agencies. Particular attention is focused on implementing leadership in the bureaucratic and public agencies typical to the fields of criminal justice and public safety administration.

CRJ 165. Planning for Justice and Public Safety. 3 Units
Prerequisite(s): CRJ 101, CRJ 102 and CRJ 160; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Spring only

Addresses planning in complex justice and public safety organizations. Focuses on the role of planning in preparing for change, maximizing utilization of resources and addressing crime and public safety. Emphasis is placed on the use of planning to unify fragmented public agencies at multiple levels of government in preparing for disaster, controlling crime, and assuring public safety.

CRJ 166. Personnel Administration in Criminal Justice and Public Safety Organizations. 3 Units
Prerequisite(s): CRJ 160; declared CRJ major or chair permission
Term Typically Offered: Fall, Spring

This course provides an understanding of history, theories, laws, and practices related to contemporary as well as future criminal justice/public safety personnel administration and practice.

CRJ 167. Collective Bargaining and Arbitration Issues in Public Safety. 3 Units
Prerequisite(s): Must be a declared CRJ major or chair permission.
Term Typically Offered: Fall, Spring

This course is designed to provide the public safety student and/or criminal justice student, practitioner and/or administrator with an understanding of public safety personnel practices in the area of collective bargaining. Labor-management relations, dispute resolution, arbitration, and the various laws that govern labor-management relations, at all levels of government, will be covered.

CRJ 168. Justice and Public Safety Information Systems. 3 Units
Prerequisite(s): Restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

Introduction to criminal justice and public safety information systems. Provides a framework for understanding the needs, types, capabilities and applications of information systems to the field. Current uses are surveyed and future potential applications are examined.

CRJ 169. Emergency Management. 3 Units
Prerequisite(s): CRJ 164; Criminal Justice or Fire Service Management major, or instructor permission.
Term Typically Offered: Fall, Spring

Course reviews the history of emergency management, the current systems in place to manage mitigation, preparedness, response and recovery and the coordination and communication required to do so. Diverse responses to various emergencies will be presented with detailed examination of the roles of various levels of government and integration required. The formal declaration of emergencies and federal aid procedures, agencies involved and their administration will be covered.

CRJ 170. Human Trafficking and Slavery. 3 Units
Prerequisite(s): Junior/Senior level and CRJ majors only; or department chair permission.
Term Typically Offered: Fall, Spring

The course explores the international and domestic legal framework that defines human trafficking and slavery and analyzes the major theories and current research on related causes and risk factors. The role of involvement of transnational organized criminal groups and vulnerability of social groups are discussed. Lastly, the course provides a critical analysis of effective strategies in victim identification, protection, prosecution, and prevention as instrumental components in assessment of crime control policy.

CRJ 172. Comparative Criminal Justice Systems. 3 Units
Prerequisite(s): Junior status; restricted to declared CRJ majors or chair permission
Term Typically Offered: Fall, Spring

Examines representative criminal justice systems from a variety of nations with emphasis on the role of history, culture, social and political values and economic institutions in shaping institutions of justice including law, police, courts, corrections, and juvenile justice systems and practice. Attention is paid to conflict and cooperation between criminal justice systems and ideologies that occur when peoples of different cultures and systems are in close proximity.

CRJ 174. Criminal Justice Systems of the Future. 3 Units
Term Typically Offered: Fall, Spring

Societal structures, definitions of deviance and criminal behavior, social problems related to criminality, the nature of systems for handling criminals and sanctions in future societies.

CRJ 176. Security Systems. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

Purposes, functions and historical development of industrial security in the U.S. Co-responsibilities of security personnel and line supervisors; principles of physical security, document protection, pilferage prevention and employee programs for plant and inventory protection. Survey of related laws and cooperating agencies of government.

CRJ 181. Topics in Criminal Justice. 3 Units
Prerequisite(s): CRJ 100 and CRJ 110; must be a CRJ major.
Term Typically Offered: Fall, Spring

Topics of interest to criminal justice students and faculty will be offered as the need arises.
Note: May be repeated provided the topic is different.

CRJ 190. Contemporary Issues in Criminal Justice. 3 Units
Prerequisite(s): CRJ 101, CRJ 102, CRJ 121, CRJ 123, CRJ 130, CRJ 141, CRJ 160; restricted to declared CRJ majors or chair permission with senior status, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Examination of current issues in criminal justice with an emphasis on the application of law, management, practice and ethics to analysis of contemporary criminal justice policy. The culminating event for criminal justice majors with an emphasis upon written and oral communication, research and analytical thinking.

CRJ 191. Topics in Criminal Justice Administration. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

CRJ 195. Internship. 1 - 6 Units
Prerequisite(s): Restricted to declared majors or chair permission and senior status
Term Typically Offered: Fall, Spring

Supervised work and experience in justice or public safety related agencies designed to expand the student's understanding of techniques, procedures and problems that occur in these agencies. Supervision provided by both faculty and agency personnel.
Note: may be repeated for credit

Credit/No Credit

CRJ 196. Experimental Offerings in Criminal Justice. 2 - 4 Units
Prerequisite(s): Restricted to declared majors and minors or instructor permission.
Term Typically Offered: Fall, Spring

To be offered in the various fields of Criminal Justice in response to student needs.

CRJ 196A. The Mentally Ill Individual in the Criminal Justice System. 3 Units
Term Typically Offered: Fall, Spring

Overview and analysis of how mentally ill individuals interface with the criminal justice system, from first contacts with the police, to their entry into the jails, courts, and prisons, and then reentry into the community via parole and probation. The history of how the mentally ill became so embedded in the criminal justice system, whether mental illness has become criminalized, evidence-based mental health programs, and treatment for this population will be covered.

CRJ 196B. Law of Homeland Security and Emergency Management. 3 Units
Term Typically Offered: Fall, Spring

Current and historical developments relating to the laws surrounding homeland security and emergency management. Topics include the legal framework for the U.S. domestic preparedness and national incident management system, the role of the military in emergency response and homeland security, and the legal jurisdiction and authority of federal, state, and local public safety, as well as private sector institutions, in terrorism prevention and response. Course utilizes cases, statutes, executive orders, government reports, and scholarly research.

CRJ 196S. Ethics and the Criminal Justice System. 3 Units
Prerequisite(s): CRJ Majors or department chair permission
Term Typically Offered: Fall, Spring

Purpose of course is to learn various ethical considerations within the criminal justice system. Course will briefly explore the classical, philosophical foundations of ethics and proceed into surveying modern, ethical decision-making among the various criminal justice components. Criminal justice system ethics and decision-making of the police, prosecution, courts, corrections, and probation/parole from a managerial standpoint and a line perspective will be examined and critiqued. Emphasis will be placed on viable, practical solutions to ethical conundrums.

CRJ 198. Co-Curricular Activities. 1 - 3 Units
Prerequisite(s): Permission of the sponsoring professor and the Division Chair.
Term Typically Offered: Fall, Spring

Co-Curricular activities related to the subject matters and intellectual concerns of the Division of Criminal Justice, including service learning, related community service assignments, and service on University and community policy making bodies.
Credit/No Credit

CRJ 199. Special Problems. 1 - 3 Units
Prerequisite(s): Restricted to declared CRJ majors or chair permission and senior status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading, open only to those students who appear competent to carry on individual work.
Credit/No Credit

CRJ 200. Research Methods in Criminal Justice. 3 Units
Prerequisite(s): Classified graduate status, satisfactory completion of a basic statistics course.
Term Typically Offered: Fall, Spring

Research theory and methodology in Criminal Justice; research designs; conceptual models; design and preparation of Master's thesis prospectus.
Note: Graduate Writing Intensive (GWI) course.

CRJ 201. Advanced Research Design and Data in Criminal Justice. 3 Units

Prerequisite(s): CRJ 200

This course provides applied explanations of advanced research designing, use of data development strategies, and techniques for effective data analysis using statistical software. Topics generally covered include: (1) issues and techniques in advanced research design with emphasis on theory testing and hypothesis formulation; (2) measurement, data collection strategies, reliability and validity of measures and results, sampling, surveys; and, (3) examination of qualitative versus quantitative research techniques, working with observational data, field research issues, and triangulation.

Note: Required core course

CRJ 205. Criminal Justice Policy Analysis. 3 Units

Prerequisite(s): Classified Graduate status, CRJ 200, CRJ 201, CRJ 255, and CRJ 260.

Term Typically Offered: Fall, Spring

Examination of responses of the criminal justice system to major current issues with attention to factors influencing their effects; review of uses and limitations of various responses; appraisal of the consequences of various criminal justice policy alternatives.

CRJ 207. Criminal Justice Research and Program Evaluation. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

Systematic review of selected evaluations of major criminal justice programs, demonstration projects, experiments, and innovations; introduction to basic techniques of interpretation and analysis of research findings to determine outcomes.

CRJ 210. Critical Examination of Law and Justice. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

Examines the historical, theoretical, and practical developments that gave rise to the dominance of legal formalism in the American legal tradition. Examines the multiple challenges to that model, including legal realism, the sociology of law, critical legal studies, and critical race theory. Will critically examine the intersection of the American legal tradition with issues concerning the possibility and implementation of social justice strategies in diverse, and increasingly global contexts.

CRJ 220. Politics of Crime Legislation. 3 Units

Prerequisite(s): Classified Graduate status, CRJ 200, CRJ 201, CRJ 255, and CRJ 260.

Term Typically Offered: Fall, Spring

Familiarizes students with the legislative process, the performance of the legislature as it relates to the handling of crime bills and the role of interest groups and politics in the process of initiating and passing laws. Topics include: theoretical models of lawmaking, factors in legislative decision-making, the politics of crime legislation, ethics in politics, and how people influence and use the legislative process.

CRJ 230. The Prison. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

Contemporary penal institutions will be studied using the literature in the social sciences, the biographies of prisoners, and the writings of prison critics.

CRJ 231. Graduate Seminar in Corrections. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

Provides a historical analysis and discussion of the current state of corrections and correctional management. Theories of punishment will be addressed and management techniques will be covered. Goes beyond concepts of institutionalized corrections to explore modern correctional alternatives, correctional policy and special topics relevant to corrections.

CRJ 233. Psychodynamics of Confinement. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

Examination of current conditions of confinement; review of confinement related factors common to populations in penal institutions, military installations, mental hospitals, prisoner of war camps, and concentration camps; investigation into the broader implications of conditions of confinement for society; survey of practical strategies for developing and implementing standards for confined populations.

CRJ 240. Contemporary Issues in Policing. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

In-depth study of contemporary issues in policing in the U.S., including management, organization and issues confronting law enforcement at federal, state and local levels.

CRJ 250. Comparative Analysis of the Criminal Justice System. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

Examination of alternative systems for criminal justice provides a basis for improved understanding of organizational and functional components within given sociopolitical environments. Through comparison of formal and operational levels, decision-making processes are made explicit with reference to historical, legal, social, and economic parameters in the administration of justice.

CRJ 251. White-Collar Crime. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

Examines the underlying theories and the diverse nature of white-collar crime. Studies offenses associated with corporations, occupations, governments, enterprises and individuals. Examines the offenders and the organizational culture that facilitates criminal action. Topics include embezzlement, political corruption, employee theft, fraud, computer crime, and environmental crime. Study consequences for victims, offender characteristics and the theoretical explanations for the decisions by criminals to commit white-collar crimes.

CRJ 252. Violence and Victims. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

Comprehensive survey of the literature on violence emphasizing high-fear crimes; the repetitively violent criminal; the emerging field of victimology; improved delivery of social services to victims; juvenile gangs; and the response of criminal justice agencies to urban violence.

CRJ 255. Crime, Criminology and Criminal Justice. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Study of major criminological theories, their ideological premises and basic assumptions, interrelationships, and the shifts in emphasis and focal points in the study of criminality. Analyzes post and current applications of theory to the intervention strategies of crime control.

CRJ 256. Historical Analysis of the American Criminal Justice System. 3 Units
Prerequisite(s): Classified graduate status; CRJ 200,CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Evolution and historical foundations of American patterns of crime and violence, criminological theories, law enforcement structures and philosophies, the adult criminal justice system, and the juvenile system will be traced through three distinct historical periods: Colonial and Early American Roots, 1609-1814; Creating the American Criminal Justice System, 1815-1900; and Reforming the Criminal Justice System, 1900 to present.

CRJ 257. The Nature Of Terrorism. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Theoretical approaches to the study of terrorism and analysis of terrorist theory and strategies. Topics include operational definitions of terrorism, typologies of terrorism, threat analysis of terrorism in the U.S., and responses of the criminal justice system to acts of hostage-taking, bombing, political murder, and narco-terrorism.

CRJ 260. Management of Complex Justice Organizations. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Description, analysis, solution, and synthesis of contemporary management problems in criminal justice organizations; presentation and exemplary implementation of management concepts significant to criminal justice organizations; review of case studies for management problem recognition; and the study of operational systems.

CRJ 262. Administration of Juvenile Justice. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Theoretical and empirical study of the cause and control of delinquent behavior. Assessment of policies and practices of agencies involved in juvenile justice including the impact of recent federal and state legislation.

CRJ 266. Personnel Administration in Justice Organizations. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Provides an in depth understanding of the history, theories, laws, processes, issues and unique environment shaping contemporary personnel administration in a variety of criminal justice agencies.

CRJ 267. Criminal Justice Issues in Collective Bargaining and Arbitration. 3 Units
Prerequisite(s): Classified graduate status; CRJ 200, CRJ 201, CRJ 255 and CRJ 260.
Term Typically Offered: Fall, Spring

Designed to provide the criminal justice practitioner and administrator with an understanding of criminal justice labor-management relations and collective bargaining and difference resolution, along with conflict resolution practices as applied to inmate-custody and control situations.

CRJ 289. Criminal Justice Systems of the Future. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Societal structures, definitions of deviance and criminal behavior, social problems related to criminality, the nature of systems for handing criminal and sanctions in future societies.

CRJ 295. Internship. 3 Units
Prerequisite(s): Classified graduate status
Term Typically Offered: Fall, Spring

Supervised graduate student placement in selected criminal justice agencies with emphasis on research and evaluation project assignments. Credit/No Credit

CRJ 296A. The Mentally Ill Individual in the Criminal Justice System. 3 Units
Prerequisite(s): Graduate student status
Term Typically Offered: Fall, Spring

A critical analysis of how mentally ill individuals interface with the criminal justice system, from first contacts with the police, to their entry into the jails, courts, prisons, and then reentry into the community via parole and probation. Current and historical topics about the mentally ill will be explored via an in-depth analysis of the current literature regarding the mentally ill in the criminal justice system, which will be reviewed and critiqued.

CRJ 296K. Emergency Management. 3 Units
Prerequisite(s): Graduate status; CRJ 200, CRJ 255, CRJ 256 and CRJ 260 or chair permission.
Term Typically Offered: Fall, Spring

Introduction to the authority, organization, responsibilities, challenges, and issues related to emergency management in California and the U.S., examines the implications of citizen involvement in preparation for and management of natural and man-made disasters. Graduate students will consider impact of terrorism on democratic governance issues and potential future trends and issues.

CRJ 299. Special Problems. 1 - 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who are competent to carry on individual work.
Credit/No Credit

CRJ 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree. A thesis requires an original contribution to knowledge in a traditional research format. A project is a significant undertaking of a pursuit appropriate to the profession. It must evidence originality and independent thinking, appropriate form and organization and a rationale.

CRJ 501. Culminating Experience: Thesis/Project Development. 3 Units
Prerequisite(s): Advancement to candidacy.
Term Typically Offered: Fall, Spring

Provides students with an opportunity to develop a foundation for their culminating experience. Students will complete the initial components of their project or thesis including the Statement of the Problem, Literature Review, and Human Subjects application. Students are expected to read assigned materials and engage in weekly discussions about their progress and experience with other students, the instructor, and their advisor (as needed).
Credit/No Credit

CRJ 502. Culminating Experience: Thesis or Project. 3 Units
Prerequisite(s): Advanced to candidacy; satisfactory completion of CRJ 501.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree. A thesis requires an original contribution to knowledge in a traditional research format. A project is a significant undertaking of a pursuit appropriate to the profession. It must evidence originality and independent thinking, appropriate form and organization and a rationale.
Credit/No Credit

BS in Criminal Justice

Units required for Major: 60
Total units required for BS: 120

Program Description

Criminal Justice encompasses multidisciplinary examinations of crime, crime control, the justice process, and justice institutions. The discipline addresses definitions, causation, prevention, investigation, legal process, treatment, rehabilitation, and research relating to crime and justice as well as the institutions of the justice system and their administration.

The Criminal Justice program at Sacramento State is one of the most highly sought after programs in Northern California. Due to the large number of applications, the program is now officially impacted. Students wishing to become Criminal Justice majors must complete a series of required lower division courses and then must apply for admission to the program. It is highly recommended that interested students speak with a Criminal Justice advisor as soon as possible.

Pre-Requisite Requirements

To become a Criminal Justice major, the student must first have successfully completed the following courses or their equivalent with a grade of 'C' or better:

Code	Title	Units
CRJ 1	Introduction to Criminal Justice and Society	3
CRJ 2	Law of Crimes	3
CRJ 4	General Investigative Techniques	3
CRJ 5	The Community and the Justice System	3

Students who wish to become a Criminal Justice minor must contact the Division of Criminal Justice.

Most upper division Criminal Justice courses are restricted to Criminal Justice majors or minors or permission of instructor. Students interested in Criminal Justice majors or minors are encouraged to contact the Criminal Justice Student Advising Center.

Criminal Justice majors are assigned a faculty advisor at the time they are approved for admission into the major. Majors must meet with their assigned faculty advisor during their first semester. Advising appointments are scheduled in the Criminal Justice Office Alpine Hall 137.

Minimum Grade Requirement

Students majoring in Criminal Justice must achieve a 'C' grade or better in each lower division and a 'C-' or better in each upper division course applied to the major and a GPA of at least 2.0 ('C') for all upper division required courses applied to the major.

Program Requirements

Code	Title	Units
Required Lower Division Courses (12 Units)		
CRJ 1	Introduction to Criminal Justice and Society [1]	3
CRJ 2	Law of Crimes	3
CRJ 4	General Investigative Techniques	3
CRJ 5	The Community and the Justice System	3
Required Upper Division Core Courses (24 Units)		
CRJ 101	Introduction to Criminal Justice Research Methods [2]	3
CRJ 102	Crime And Punishment [2]	3
CRJ 121	The Structure and Function of the American Courts [2]	3
CRJ 123	Law of Arrest, Search and Seizure [2]	3
CRJ 130	Fundamentals of Corrections [2]	3
CRJ 141	Police and Society [2]	3
CRJ 160	Justice and Public Safety Administration [2]	3
CRJ 190	Contemporary Issues in Criminal Justice [1,2]	3
Upper Division Electives (24 Units)		
Select 24 units from the following: [3]		24
Criminal Justice Administration		
CRJ 141	Police and Society	
CRJ 142	Police Administration [2]	
CRJ 144	Contemporary Issues in Police Administration [2]	
CRJ 163	Leadership in Criminal Justice and Public Safety [2]	
CRJ 165	Planning for Justice and Public Safety [2]	
CRJ 168	Justice and Public Safety Information Systems [2]	
CRJ 172	Comparative Criminal Justice Systems [2]	
Investigation		
CRJ 152	Interviewing and Detection of Deception [2]	
CRJ 153	Advanced Criminal Investigation [2]	
CRJ 154	Introduction to Physical Evidence [2]	
CRJ 156	Introduction to Crime and Intelligence Analysis [2]	

Corrections	
CRJ 131	Correctional Institutions [2]
CRJ 134	Community Based Corrections [2]
CRJ 136	Corrections Administration [2]
Offenses and Offenders	
CRJ 105	Delinquency, Prevention and Control [2]
CRJ 106	Analysis of Career Criminals [2]
CRJ 108	Domestic Crime and Violence [2]
CRJ 112	Gangs and Threat Groups in America
CRJ 114	Sexual Offenses and Offenders
CRJ 115	Violence and Terrorism
CRJ 116	Restorative Justice and Conflict Resolution
CRJ 117	American Criminal Justice and Minority Groups
CRJ 118	Drug Abuse and Criminal Behavior
CRJ 151	White Collar Crime
Law	
CRJ 125	Law of Responsibility [2]
CRJ 126	Law of Evidence [2]
CRJ 127	Juvenile Law [2]
CRJ 128	Administrative Law for Public Safety Personnel [2]
Additional Courses	
CRJ 109	Media, Crime, and Criminal Justice [2]
CRJ 111	Women and the Criminal Justice System
CRJ 172	Comparative Criminal Justice Systems [2]
CRJ 174	Criminal Justice Systems of the Future
CRJ 176	Security Systems [2]
CRJ 191	Topics in Criminal Justice Administration [2]
CRJ 195	Internship [2,4]
CRJ 196	Experimental Offerings in Criminal Justice [2]
CRJ 198	Co-Curricular Activities [4]
CRJ 199	Special Problems [2,4]
Supporting Courses	
ACCY 161	Government and Nonprofit Accounting
ANTH 101	Cultural Diversity [1]
ANTH 144	Contemporary American Culture in Anthropological Perspective
ANTH 163	Urban Anthropology
ANTH 166	Rise of Religious Cults [1]
ANTH 183	Women Cross-Culturally [1]
ANTH 186	Culture and Poverty [1]
COMS 116	Intercultural Communication
CSC 114	Digital Evidence and Computer Crime
CSC 115	Internet Security
CSC 116	Cyber Forensics
ENGL 120P	Professional Writing [1]
ENGL 120S	Writing in the Social Sciences
ETHN 100	Ethnic America [1]
ETHN 110	The Asian American Experience [1]
ETHN 117	Black Political Thought
ETHN 130	Chicano/Mexican-American Experience [1]
ETHN 131	La Raza Studies
ETHN 136	US Mexican Border Relations [1]
ETHN 140	Native American Experience [1]
ETHN 155	Genocide and Holocaust Studies [1]
ETHN 170	Pan African Studies [1]
ETHN 173	The Black Family in the United States
GEOG 109	Geographic Information Systems
GOVT 120A	
GOVT 120B	
GOVT 122	
GOVT 155	
GOVT 165	[1]
GOVT 170	
GOVT 180	[1]
HIST 162	Social History of the United States [1]
HIST 163	The City in US History [1]
HIST 177	The African-American Experience, 1603-Present [1]
PHIL 101	Ethics and Social Issues [1]
PHIL 102	Professional and Public Service Ethics [1]
PHIL 122	Political Philosophy [1]
PHIL 155	Philosophy Of Law
PHIL 160	Deductive Logic II
PSYC 100	Cross-Cultural Psychology
PSYC 103	Perception
PSYC 108	Organizational Psychology
PSYC 110	Cognitive Psychology
PSYC 130	Personality Theories
PSYC 135	Psychology of Multicultural Groups [1]
PSYC 137	Stress Management [1]
PSYC 145	Social Psychology
PSYC 149	Psychology of Adolescence
PSYC 151	Psychological Aspects of Death and Dying
PSYC 168	Abnormal Psychology
RPTA 152	Law Enforcement for Forest and Park Rangers
SOC 101	Introduction to Statistics for Sociologists
SOC 102	Research Methods in Sociology
SOC 120	Ethnic and Race Relations [1]
SOC 130	Political Sociology
SOC 136	Social Movements
SOC 155	Criminology [1]
SOC 156	Delinquency [1]
SOC 157	Issues in Courts and Prisons
SOC 158	Sociology of Deviance
SOC 162	Middle Eastern Societies and Culture [1]
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class [1]
SWRK 118	Chemical Dependency and Social Work Practice
SWRK 126	Theories of Criminal Behavior [1]
SWRK 134	Crimes Without Victims [1]
SWRK 136	Poverty and Homelessness in America [1]
SWRK 137	The Child and the Law
SWRK 138	Violence In The Family

WOMS 139	Violence Against Women [1]	
Total Units		60

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] **Prerequisite:** Restricted to declared majors and minors or instructor permission.

[3] Students will collaborate with their Criminal Justice advisor to develop a plan of electives that reflects the student's academic and professional interests. Electives must be drawn from at least two of the listed "Areas of Interest," of which one must be from the "Supporting Courses" area. The Writing Intensive graduation requirement may be completed in the major. An approved minor may be substituted for up to 12 units of the major elective courses and fulfills the requirement for selection of a course from the "Supporting Courses".

[4] No more than 6 units of Credit/No Credit courses will be allowed toward completion of the degree.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area Course C		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		46

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

Certificate in Law Enforcement

Units required for Certificate: 18

Program Description

Students participating in the Law Enforcement Candidate Scholars' (LECS) program who wish to obtain a Certificate of Academic Achievement in Law Enforcement must complete the following courses with a minimum grade of 'C' or higher. Courses for the Certificate program are applicable toward course requirements for the Criminal Justice major.

All courses and petitions for substitutions will need to be approved by the Law Enforcement Candidate Scholars' Program and Criminal Justice Division and will reflect the criteria and learning outcomes of the Law Enforcement Certificate.

Additional eligibility criteria and certificate information can be obtained from the Law Enforcement Candidate Scholars' (LECS) Program or Criminal Justice Division Advising Center. Visit the LECS website (http://www.csus.edu/hhs/lecs/) for more information.

Program Requirements

Code	Title	Units
CRJ 1	Introduction to Criminal Justice and Society	3
CRJ 2	Law of Crimes	3
CRJ 4	General Investigative Techniques	3
CRJ 5	The Community and the Justice System	3
CRJ 160	Justice and Public Safety Administration	3
CRJ 195	Internship [1]	3
Total Units		18

[1] CRJ 195 internship can count for 1-6 units of credit, but for the Law Enforcement Certificate it can only be taken once for 3 units.

Minor in Criminal Justice

Units required for Minor: 21

Program Description

Students who wish to become a Criminal Justice minor must contact the Division of Criminal Justice.

Note: Admission to the Minor in Criminal Justice is suspended due to the impaction status of the BS in Criminal Justice.

Program Requirements

Code	Title	Units
CRJ 1	Introduction to Criminal Justice and Society	3
CRJ 2	Law of Crimes	3
CRJ 4	General Investigative Techniques	3
CRJ 121	The Structure and Function of the American Courts [1]	3
CRJ 123	Law of Arrest, Search and Seizure [1]	3
CRJ 130	Fundamentals of Corrections [1]	3
CRJ 141	Police and Society [1]	3
Total Units		21

[1] Restricted to declared majors and minors or instructor permission.

Minor in Forensics Investigations

Units required for Minor: 21

Program Description

This minor is only available to students who are either a Chemistry or Biological Science major.

Minimum Grade Requirement

The following courses must be completed with a minimum grade of 'C' or higher.

Program Requirements

Code	Title	Units
CRJ 1	Introduction to Criminal Justice and Society	3
CRJ 2	Law of Crimes	3
CRJ 4	General Investigative Techniques	3
CRJ 121	The Structure and Function of the American Courts [1]	3
CRJ 141	Police and Society [1]	3
CRJ 153	Advanced Criminal Investigation [1]	3
CRJ 154	Introduction to Physical Evidence [1]	3
Total Units		21

[1] Restricted to declared majors and minors or instructor permission.

MS in Criminal Justice

Total units required for MS: 30

Program Description

The Master of Science program in Criminal Justice is designed to provide broad knowledge and understanding of the field of criminal justice, law enforcement, legal processes, and rehabilitation of offenders. It also provides an extensive academic foundation for a growing variety of professional opportunities and facilitates professional development in preparation for positions of increasing responsibility. Curriculum objectives are based on the philosophy that the function of the professional criminal justice practitioner and educator is to aid the orderly development of society, to contribute significantly to the improvement of the quality of services, and to advance the criminal justice system. Students who anticipate pursuing graduate studies should prepare themselves for work on this level by selecting undergraduate courses which provide competence in the following areas: statistical analysis, behavioral science methodology, independent library research, and the writing of research papers.

The University's location in the state capital provides direct access to many local, federal, and state agencies through internship and fieldwork opportunities. All graduate students should consult the Criminal Justice Graduate Coordinator when planning their program of courses for each upcoming semester.

All work toward the degree must be completed within a seven-year period. The general University requirements for graduate degrees are explained in the 'Graduate Studies (p. 79)' section of this Catalog.

Admission Requirements

Admission as a classified graduate student in Criminal Justice requires:

- a baccalaureate degree from an institution accredited by a regional accrediting association;
- a minimum 3.0 GPA in the last 60 units attempted and a 3.0 GPA in the major field;
- a score of 4 or more in the Analytical Writing Section of the Graduate Record Examination (GRE) General Test;
- a letter outlining in some detail the applicant's **interests, goals, and expectations** in pursuing the MS in Criminal Justice; and
- three letters of recommendation from individuals who can evaluate the applicant's potential for graduate study.

In addition, applicants are expected to have an undergraduate major in Criminal Justice or its equivalent. Whatever the applicant's undergraduate major, however, it is essential that each student have adequate preparation for graduate study. For this reason, some applicants (regardless of their undergraduate program) may be asked to remove deficiencies in their education by taking courses from the

undergraduate curriculum before being admitted as a classified graduate student. In such cases, conditionally classified graduate status may be granted subject to completion of these courses with grade 'B' or better. The number of units required to remove deficiencies will total no more than 15 and these must be taken in addition to the 30 units required for the MS. Any deficiencies will be noted on a written response to the admission application.

Admission Procedures

Applications are accepted as long as space for new students is available. If applications for graduate admissions exceed the capacity of the Department, the Department will limit admissions. Applicants will be rank ordered for admission based on an evaluation of the academic record, GRE scores, professional and life experience, references, proposed academic plan and potential for diversifying, and enriching the Criminal Justice graduate program. *For more admissions information and application deadlines, please visit* http://www.csus.edu/gradstudies/.

All prospective graduate students, including Sacramento State graduates, must provide the following:

- an online application for admission;
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State; and*
- Graduate Record Exam (GRE) scores.
- a letter outlining in some detail the applicant's interests, goals, and expectations in pursuing the MS in Criminal Justice; and
- three letters of recommendation from individuals who can evaluate the applicant's potential for graduate study.

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be emailed by the University to the applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MS: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy for the master's degree indicating the proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admissions requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Students may not enroll in CRJ 502 before they are advanced to candidacy.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with the Criminal Justice Graduate Coordinator. The completed form should then be returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Courses (18 Units)		**18**
CRJ 201	Advanced Research Design and Data in Criminal Justice	3
CRJ 200	Research Methods in Criminal Justice	3
CRJ 255	Crime, Criminology and Criminal Justice	3
CRJ 260	Management of Complex Justice Organizations	3
Select two of the following:		6
CRJ 210	Critical Examination of Law and Justice	
CRJ 231	Graduate Seminar in Corrections	
CRJ 240	Contemporary Issues in Policing	
CRJ 262	Administration of Juvenile Justice	
Electives (6-9 Units)		
Select six units for the thesis/project option and nine units for the comprehensive exam option:		6 - 9
CRJ 205	Criminal Justice Policy Analysis	
CRJ 207	Criminal Justice Research and Program Evaluation	
CRJ 210	Critical Examination of Law and Justice	
CRJ 220	Politics of Crime Legislation	
CRJ 230	The Prison	
CRJ 231	Graduate Seminar in Corrections	
CRJ 233	Psychodynamics of Confinement	
CRJ 240	Contemporary Issues in Policing	
CRJ 250	Comparative Analysis of the Criminal Justice System	
CRJ 251	White-Collar Crime	
CRJ 252	Violence and Victims	
CRJ 256	Historical Analysis of the American Criminal Justice System	
CRJ 257	The Nature Of Terrorism	
CRJ 262	Administration of Juvenile Justice	
CRJ 266	Personnel Administration in Justice Organizations	
CRJ 267	Criminal Justice Issues in Collective Bargaining and Arbitration	
CRJ 289	Criminal Justice Systems of the Future	
CRJ 295	Internship	
CRJ 296 series course		
CRJ 299	Special Problems	
Culminating Experience (3-6 Units) [1]		
CRJ 500	Culminating Experience	3 - 6
or CRJ 501	Culminating Experience: Thesis/Project Development	
& CRJ 502	Culminating Experience: Thesis or Project	
Total Units		30-33

[1] Students requiring more than one semester to complete their culminating experience must re-enroll in CRJ 502 .

Kinesiology

Department of Kinesiology

Program Description

Kinesiology is an academic area of study concerned with the art and science of human movement. The Department offers a Bachelor of Science degree with six concentrations of study, a Master of Science with two concentrations of study (Exercise Science and Movement Studies), and a Personal Trainer/Strength and Conditioning Certificate. Two Minor programs (Coaching and Supplementary Authorization in Physical Education) are also available.

Degree Programs

BS in Exercise Science (p. 680)
BS in Kinesiology (Athletic Administration) (p. 682)

BS in Kinesiology (Athletic Care) (p. 683)

BS in Kinesiology (Athletic Coaching Education) (p. 685)

BS in Kinesiology (Physical Activity and Wellness) (p. 686)

BS in Kinesiology (Physical Education) (p. 687)

Minor in Coaching (p. 690)

Minor in Supplementary Authorization in Physical Education (p. 690)

Certificate in Personal Trainer/Strength and Conditioning (p. 689)

Credential in Adapted Physical Education Specialist (p. 689)

Single Subject Credential in Physical Education (K-12) (p. 693)

MS in Kinesiology (Exercise Science) (p. 690)

MS in Kinesiology (Movement Studies) (p. 692)

The Health Fitness/Strength Conditioning option is a National Strength Conditioning Association (NSCA) recognized program that prepares students for graduate work in the areas of exercise and sport science, as well as for careers as a strength and conditioning specialist in corporate and community wellness, college/professional-based athletics, commercial fitness & health club settings. The Clinical Exercise & Rehabilitation option provides students with in-depth science-based coursework which meets the prerequisite requirements for most physical therapy, occupational therapy, and other health related professional programs. Career options include cardiac rehabilitation, clinical exercise specialist, and other clinical/technical specialties in allied health fields.

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Kinesiology (Physical Education) is also individually accredited by California Commission on Teacher Credentialing (CCTC).

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

- The Kinesiology facilities include state of the art high tech laboratories for motor learning, biomechanics, exercise physiology, sport performance, and physical therapy/therapeutic exercise and rehabilitation..
- Several activity spaces are available, including dance, weight training, and gymnastics rooms. Outside facilities include a lap pool, racquetball and tennis courts, jogging trails, sports fields, putting green, driving range, and aquatic center.
- Kinesiology majors at Sacramento State have opportunities for unique experiences at the undergraduate level. In the Physical Education Concentration, students observe and teach children in both on and off campus field sites.
- Sacramento State has an accredited CCTC Accredited Physical Education Teacher Education program.
- Exercise Science students gain useful experience through their internships at various on and off campus locations.
- Students interested in Physical Therapy build a valuable background of experience in community hospitals and rehabilitation centers.
- At the graduate level, students engage in a variety of research projects, both on and off campus in the areas of Exercise Science and Movement Studies.

Note: Students interested in majoring or minoring in Kinesiology are encouraged to go to the Department of Kinesiology and Health Science Office for an assignment to a faculty advisor.

Career Possibilities

Biomechanist · Cardiac Catherization Technician · Cardiac Electophysiologist · Cardiac Rehabilitation Specialist · Cardiac Technician · Cardiovascular Sonography Technician · Clinical Exercise Physiologist · Coach · Community Center Leader · Corporate Wellness/Fitness · Corrective Therapist · Doctor of Osteopathy School · Echocardiagram Technician · Endurance Sport Coach · Exercise Physiologist · Exercise Scientist · Health Fitness Specialist · Intramural Recreational Sports Specialist · Medical School · Nursing School · Occupational Therapist School · Personnel Fitness Trainer · Pharmacy Sale Representative · Physician Assistant · Physical Therapy Aide · Physical Therapist · Physical Education Teacher · Recreation Sports Coordinator · Sportscaster · Strength Conditioning Specialist · University Student Fitness/Wellness Coordinator

Contact Information

Michael T. Wright, Chair
Andrew Haff, Administrative Coordinator
Solano Hall 3002
(916) 278-6441
Department of Kinesiology Website (https://www.csus.edu/college/health-human-services/kinesiology/)

Faculty

BALDINI, FRED D.

BECKER, ANDREA J.

BEGUE, GWENAELLE

BROWN, MATTHEW J.

DEZFOULI, SHABNAM R.

IMAMURA, RODNEY T.

JAMIESON, KATHERINE M.

KUEHL-KITCHEN, JULIE M.

LARSEN, LESLIE K.

MONICAL, SALLY K.

PARK, JENNIFER K.

PARKER, DARYL L.

QUINTANA, ROBERTO

SMITH, MAUREEN M.

TABOGA, PAOLO

TACLA, CRAIG P.

THEODORIDES, HARRY N.

VALDEZ, LINDY A.

WRIGHT, MICHAEL T.

KINS 4. Beginning Swimming. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Development of physical and mental adjustment to the water. Basic instruction in front crawl, back crawl, elementary backstroke, breast and side strokes and survival is stressed.
Note: May be repeated for credit.

KINS 5. Intermediate Swimming. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Development of physical skills involving strokes, turns, safety and survival techniques.
Note: May be repeated for credit.

KINS 9. Beginning Sailing. 1 Unit
Prerequisite(s): 50 yards swimming ability.
Term Typically Offered: Fall, Spring

Instruction in the fundamentals of sailing including safety and a discussion of terminology and technology of sailing. Additional charge for off-campus services.
Note: May be repeated for credit.

KINS 10. Intermediate Sailing. 1 Unit
Term Typically Offered: Fall, Spring

Continuation of KINS 25, using our fleet of C-15s, Laser and Hobie Turbo 14s. Covers rigging, boating safety, sailing, theory and racing tactics.
Note: May be repeated for credit.

KINS 11. Basic Windsurfing. 1 Unit
Term Typically Offered: Fall, Spring

Introduces the student to the basic fundamentals of windsurfing. Covers rigging, terminology, balance, stance, sail adjustment, safety, rescue skills, and tricks.
Note: May be repeated for credit.

KINS 12. Water Skiing. 1 Unit
Prerequisite(s): 50 yards swimming ability.
Term Typically Offered: Fall, Spring

Basic water skiing, boat and boating safety and in the fundamental skills in water skiing. Additional charge for off-campus services.
Note: May be repeated for credit.

KINS 14. Basic Olympic Rowing. 1 Unit
Term Typically Offered: Fall, Spring

Teaches the novice rower oar control, basic commands, and correct style. Students will begin rowing on a modern eight-oared racing shell and be introduced to the one person rowing single.
Note: May be repeated for credit.

KINS 15. Introduction to Fly Fishing. 1 Unit
Term Typically Offered: Fall, Spring

KINS 15 is a course designed for Sacramento State students of all experience levels to develop proficiency in the sport of fly fishing while promoting an appreciation of the sport as a socio-cultural and lifetime recreational pursuit. Instruction/participation will include, but is not limited to the following topics: conditioning, conservation techniques, equipment use/care/selection, fly casting, aquatic entomology, stream hydrology, interpretation of fly fishing opportunities, fly fishing tactics, basic knots, and field trips to local streams.
Field trip(s) may be required.

KINS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Provides students with the opportunity to interact with fellow classmates and the seminar leader to build a community of academic and personal support.

KINS 22. Creative Aerobic Fitness I. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Provides student with a wide range of flexibility, strength, muscular endurance and creative cardiovascular endurance (aerobic) exercises that promote physical fitness, positive changes in body composition and stress reduction when performed regularly.
Note: May be repeated for credit.

KINS 24. Aqua Aerobics. 1 Unit
Term Typically Offered: Fall, Spring

Using the unique buoyancy and resistance properties of water, the course includes aquatic exercises for flexibility, strength, and cardiovascular endurance to promote general fitness, body conditioning, and stress reduction. As the course will take place in shallow water, swimming proficiency is not required.
Note: May be repeated for credit.

KINS 26. Exercise For Fitness. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Designed to encourage self-improvement through posture evaluation, biomechanic analysis of exercises performed and through participation in varied exercise forms. Students will develop a personalized repertoire of strength, suppleness and stamina exercises calculated to improve possible deficiencies in posture or movement to optimize enjoyment of living.
Note: May be repeated for credit.

KINS 28. Jogging. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Jogging will expose the student to the fundamentals of jogging/running, its potential physiological and sociological benefits as a lifetime activity, fitness testing and individualized conditioning programs.
Note: May be repeated for credit.

KINS 30. Bicycling. 2 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Cycling as a lifetime sport; physiological benefits derived from bicycle riding; individual functional evaluation and conditioning, cycle touring. Lecture one hour; activity two hours.
Note: May be repeated for credit.

KINS 33. Intermediate Weight Training. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Weight training as a lifetime fitness activity; emphasis on going beyond the beginning level through development of an individualized program designed to meet the needs of each individual.
Note: May be repeated for credit.

KINS 36. Beginning Olympic Weight Lifting. 1 Unit
Prerequisite(s): KINS 33 or equivalent.
Term Typically Offered: Fall, Spring

Introduces the lifter to the sport of weight lifting which consists of the two lifts (two hands snatch and the two hands clean and jerk) used in Olympic competition. It includes the complete breakdown of the two lifts, the assistive lifts necessary to learn the parts of the two lifts, and the proper training sequence. The students will also be introduced to training cycles, proper diet, and the use of assistive equipment.
Note: May be repeated for credit.

KINS 40. Tai Chi. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Examines the historical, philosophical, psychological and physiological aspects of Tai Chi. Students will be provided the opportunity to experience a wide range of movement patterns that focus on the integration of mind and body. The form and structure of technique as well as breathing exercises will be included.
Note: May be repeated for credit.

KINS 43. Beginning Tae Kwon Do. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Primary emphasis on throwing, blocking, punching and kicking. The philosophy of Truism and Confucianism is explored.
Note: May be repeated for credit.

KINS 46. Beginning Judo. 1 Unit
Term Typically Offered: Fall, Spring

Instruction in beginning judo tactics including throws and falls, conditioning, and protective devices for self-defense.
Note: May be repeated for credit.

KINS 50. Uechi-Ryu Karate. 1 Unit
Term Typically Offered: Fall, Spring

Examines the historical, philosophical, and physical aspects of Uechi-Ryu Karate. Students will be asked to learn the basic techniques and skills used in this Okinawan system as well as to develop and improve in body strength, flexibility and coordination.
Note: May be repeated for credit.

KINS 56. Beginning Self-Defense for Women. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Prepares women to deal psychologically, sociologically and physically with rape and violent assault. The physical tactics taught are based on the use of hands and feet as weapons. They are simple yet an effective use of one's strength and mental attitude.
Note: May be repeated for credit.

KINS 59. Self Defense and Conditioning. 1 Unit
Term Typically Offered: Fall, Spring

Multifaceted conditioning course that utilizes self defense techniques to develop self discipline, confidence and respect for physical capabilities and limitations of others.
Note: May be repeated for credit.

KINS 63. Beginning Ballroom Dance. 1 Unit
Term Typically Offered: Fall, Spring

Development of proficiency in ballroom dance, including history, vocabulary, ballroom dance etiquette and basic steps for foxtrot, waltz, hustle, cha cha, tango, rhumba, salsa, and merengue.
Note: May be taken for credit more than once for credit.

KINS 72. Beginning Basketball. 1 Unit
Term Typically Offered: Fall, Spring

Development of fundamental skills and tactics of the game, knowledge of basic strategy and rules. Emphasis given to individual and team concepts as they relate to performance and competition.
Note: May be repeated for credit.

KINS 73. Intermediate Basketball. 1 Unit
Term Typically Offered: Fall, Spring

Advancement of basketball skills and strategy. Emphasis is given to individual and team concepts as they relate to performance competition and officiating basketball.
Note: May be repeated for credit.

KINS 75. Beginning Volleyball. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Develop basic skills, basic offensive and defensive systems of team play, basic strategies and rules. Emphasis on team work and developing supportive attitudes and behavior which encourages continued involvement in volleyball as a physical activity.
Note: May be repeated for credit.

KINS 79. Beginning Soccer. 1 Unit
Term Typically Offered: Fall, Spring

Development of basic skills of ball handling, passing, dribbling, trapping, tackling, individual and team tactics and strategies; rules interpretation and officiating; promotion of bio-psychosocial well being.
Note: May be repeated for credit.

KINS 83. Beginning Golf. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Development of sufficient basic proficiency in golf to recognize and enjoy it as a lifetime activity; including U.S.G.A. rules, etiquette and the fundamental mechanics involved in the use of irons and woods.
Note: May be repeated for credit.

KINS 86. Beginning Tennis. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Development toward proficiency in tennis, including basic court skills, knowledge, and elementary strategies. Development of enjoyable and appropriate cooperative and competitive modes of behavior, including etiquette and self-awareness. Attention is given to healthful approaches to vigorous lifetime physical activity.
Note: May be repeated for credit.

KINS 87. Intermediate Tennis. 1 Unit
Term Typically Offered: Fall, Spring

Development and refinement of skills at the intermediate level in all strokes. Development and refinement of playing techniques and strategies. Learning how to enjoy competitive situations and to relate well to others in competition. Adjustment to stressful competitive conditions and improvement of personal responses under stress.
Note: May be repeated for credit.

KINS 89. Beginning Badminton. 1 Unit
Term Typically Offered: Fall, Spring

Development of fundamentals in badminton including beginning skills, offensive and defensive tactics and strategy; singles, doubles and mixed doubles tournament play.
Note: May be repeated for credit.

KINS 90. Intermediate Badminton. 1 Unit
Term Typically Offered: Fall, Spring

Development of movement skills, strokes, tactics in singles and doubles at a more advanced level. Emphasis on 'cut' or deceptive strokes, rotation or diagonal system of doubles play, increased ability to move on the court, application of laws to move difficult playing situations. Singles, doubles and mixed doubles play in tournaments.
Note: May be repeated for credit.

KINS 91. Alpine Skiing and Snowboarding. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Designed to develop proficiency at all skill levels of alpine skiing, beginner through expert, while promoting appreciation of the sport as socio cultural phenomena and lifetime pursuits. Sessions will take place at a scheduled Sierra ski area as well as on campus. Additional fee.
Note: May be repeated for credit.

KINS 92. Beginning Racquetball. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Fundamental theory and practice of the game of racquetball including service, receiving the service, back wall play, basic shots, variations, court positioning and general tactics; history rules, and safety precautions.

KINS 93. Intermediate Racquetball. 1 Unit
Term Typically Offered: Fall, Spring

Development of proficiency at the intermediate level. Includes service and return, backwall play, offensive and defensive shots with emphasis on techniques, strategy and tactics of competition.
Note: May be repeated for credit.

KINS 99. Exercise for Healthy Living. 2 Units
Corequisite(s): One unit skill or fitness class; may be taken concurrently.
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Exposes students to a broad range of information related to the understanding and development of personal fitness and health, including psycho-social well-being. Examines the elements of exercise, nutrition, and stress management as they relate to healthful living. Students will explore a variety of personal choices and the options for developing and maintaining lifetime wellness.

KINS 101. Introduction to Kinesiology. 2 Units
Term Typically Offered: Fall, Spring

KINS 101 is an introduction to the study of human movement, including its role in daily life and its place in higher education. Career opportunities related to sport, movement, exercise, and fitness will be examined. Students in this course will explore various educational pathways, requirements, and professional opportunities in the sub-disciplines of Kinesiology.

KINS 106C. Advanced Weight Training. 1 Unit
Term Typically Offered: Fall, Spring

Advanced instruction in weight lifting including Olympic weight lifting, power lifting, body building, lifting for athletic competition and lifting for physical fitness.

KINS 110. Women and Sport. 3 Units
Term Typically Offered: Fall, Spring

Role of women in sport; an inquiry into traditional and contemporary attitudes and practices regarding the woman's role in the sporting world.

KINS 118A. Martial Arts: Karate. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Explores the ancient tradition of the Asian martial arts in conjunction with actual participation in a selected martial arts course. Asks the student to critically examine the cultural contributions of specific Asian communities such as Japan, China, and Korea, to the Martial Arts as practiced in the U.S.

KINS 118B. Martial Arts: Tae Kwon Do. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)

Term Typically Offered: Fall, Spring

KINS 118C. Martial Arts: Tai Chi. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2), Race & Ethnicity Graduation Requirement (RE)

Term Typically Offered: Fall, Spring

KINS 120. Strength and Conditioning. 3 Units
Prerequisite(s): Restricted to Kinesiology, Pre-Exercise Science, or instructor approval.
Term Typically Offered: Fall, Spring

The course is designed to introduce students, persons interested in the personal training field, strength & conditioning and/or prospective coaches at the high school, college, or professional level, public, private settings to what are commonly referred to as training units. These training units are part of the total training program an individual/student/athlete would use to prepare for participation in fitness activity or sport. Included are practical hands-on participatory experiences, program design strategy and practical field tests.

KINS 121. Peak Performance Through Psychological Skills. 3 Units
Term Typically Offered: Fall only

Examination of, and practical experience in, techniques for maximizing sport and creative performance through the development of mental skills and strategies for stress control, imagery, goal setting, and concentration.

KINS 122B. Cardiopulmonary Resuscitation. 1 Unit
Term Typically Offered: Fall, Spring

Designed to meet American Red Cross or American Heart Association Certification in CPR.
Note: May be repeated for credit.

Credit/No Credit

KINS 130. Elementary Physical Education Curriculum and Content. 3 Units
Prerequisite(s): KINS 138; Restricted to junior or senior Kinesiology majors-Physical Education concentration.
Term Typically Offered: Spring only

Overview of the total elementary physical education curriculum. Designed specifically for physical education concentration students. The primary focus will be placed on cooperative activities, movement education, development of locomotor, non-locomotor, manipulative skills, perceptual motor activities, fitness, games, and the correlation of classroom subjects with physical education. Introduces students to developmentally and instructionally appropriate physical education for children. Students will be able to develop a scope and sequence for an elementary physical education curriculum.

KINS 131. Secondary Physical Education Curriculum. 2 Units
Prerequisite(s): KINS 138; Kinesiology major - Physical Education concentration students only.
Term Typically Offered: Fall only

Designed for senior level students in the Kinesiology major, Physical Education Option, Credential Concentration who wish to deliver an effective, meaningful physical education curriculum to diverse students. Covers curriculum components that include content, content organization, distinctive curriculum models and aspects of curriculum application. Students will learn how to sustain a positive learning experience, conceive and plan meaningful curricula for school based instruction, and to link the school program to opportunities for adolescents outside of school.

KINS 132. Planning, Designing and Managing a Fitness Center. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide students with the basic guidelines for starting and managing multiple health and fitness centers in the private setting; focus on initial start-up of a health and fitness center and operating procedures with emphasis on equipment selection and arrangement, employee training, program planning for safe and optimally beneficial health and fitness results.

KINS 133. Integration of Concepts. 3 Units
Prerequisite(s): KINS PETE or PACC majors only; and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Critical perspective of how theoretical concepts and integrated knowledge can be applied to various aspects of physical education, sport, and physical activity. Emphasis is on a coherent understanding of the interrelationships that exist in the subdisciplines of kinesiology and other related subject areas. Capstone experience for students in the Physical Education Concentration; must be taken during the final semester of the student's plan of study.

KINS 134. History and Philosophy of Physical Education and Sport. 3 Units
Prerequisite(s): KINS 101. KINS 101 may be taken concurrently.
Term Typically Offered: Fall, Spring

Examination of historical events in physical education and sport; examination of how these historical events have influenced the varying philosophies of physical education, sport, and physical activity, past and present; identification of societal forces in cultures which lead to philosophical beliefs and concepts relative to the structure of the disciplines of physical education, sport, and physical activity.

KINS 135. Assessment Strategies in Physical Education. 3 Units
Term Typically Offered: Fall, Spring

Selection, analysis, construction and administration of norm-referenced and criterion-referenced tests used for formative and summative evaluation in the physical education public school setting. Includes both traditional and alternative assessment strategies. Computers are used for data collection, development of assessment instruments, development of grading programs, and for descriptive statistical analysis.

KINS 136. Sport And Aging. 3 Units
Term Typically Offered: Fall, Spring

Considers the positive and negative aspects of vigorous exercise and/or sport activity throughout the aging process. Included will be inquiry into the opportunities for activity among adults over the age of thirty, through the active career years, and beyond.

KINS 137. Sociology Of Sport. 3 Units
Prerequisite(s): KINS 101. KINS 101 may be taken concurrently.
Term Typically Offered: Fall, Spring

Analyzes sport as a social institution and the interrelations between sport and societal subsystems. Consideration of the attitudes, values, and behaviors associated with sport. Analyzes contemporary problems associated with sport: race relations, the traditional and emergent role of women, leisure behavior, aggression and violence, and political and economic concerns. Analyzes a sociological problem within the context of sport.

KINS 138. Sport Pedagogy. 3 Units
Prerequisite(s): Kinesiology Majors, Minors and Liberal Studies PE Concentration.
Term Typically Offered: Fall, Spring

Sport pedagogy examines learning, teaching and instruction in sport, physical education and related areas of physical activity. Content is focused on differentiated instructional strategies, effective teaching and learning skills, designing instructional plans, managerial behaviors, organizational arrangements, communication skills, and professionalism.

KINS 139. Leadership and Communication. 3 Units
Term Typically Offered: Fall, Spring

Social actions and behavioral patterns as influenced by the communication process; experiential approaches to techniques of interpersonal and small group relationships and leadership; the constantly evolving communication media as instruments of behavioral change.

KINS 141. PRO ACT I - Dual Sports. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Fall only

Designed to prepare physical education students to analyze and teach developmentally appropriate activities designed for dual participation in the public school setting. Student will be given opportunity to learn and apply the basic techniques of tennis, badminton and pickleball as well as the offensive and defensive net strategies for game play. Emphasis will be given to skill acquisition analysis.

KINS 142. Professional Activities II - Creative Movement and Dance. 3 Units
Prerequisite(s): KINS 138
Term Typically Offered: Spring only

Students will develop an understanding of the content specific to the design and delivery of educational gymnastics and rhythm/dance activities in a K-12 setting. Gymnastics components include: skills, appropriate progressions, spotting techniques, safety and methods of organization. Rhythm and dance will include basic locomotive skill development; basic rhythm activities; and contemporary, line, square, round, contra, folk, country and Western and social/ballroom dance. Historical and multicultural concepts related to dance are also included.

KINS 144. Analysis of Weight Training & Muscular Fitness. 2 Units
Prerequisite(s): Restricted to Kinesiology, Pre-Exercise Science, Coaching Minor or instructor approval
Term Typically Offered: Fall, Spring

The course is designed to prepare students to teach, design, and implement strength/conditioning for various fitness/athletic populations. Included are skill techniques, skill analysis, class/group organization, equipment analysis, muscular fitness related to athletics, fitness, rehabilitation, and other factors related to effective teaching of muscular fitness in high school, college, private, public and corporate settings. Emphasis is on kinesiology/biomechanics principles, human anatomy, and physiological adaptations to the various strength/conditioning for fitness/athletic training covered in the course.

KINS 145. Pro Act III - Team Sports. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Fall only

This is an introductory course designed for students within the Kinesiology Major Physical Education Concentration to analyze the teaching of field sports in secondary school settings. This course provides the student the opportunity to learn basic techniques, strategies, and rules of flag football, volleyball, softball, soccer and basketball. Emphasis will be given to skill performance, skill development, teaching methodology, skill analysis, lead-up activities, and sport participation.

KINS 146. PRO ACT IV Individual Sports. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Spring only

Designed to prepare physical education students to analyze and teach developmentally appropriate activities designed for individual participation in the public school setting. Student will be given the opportunity to learn and apply the basic techniques of golf, track and field and aquatics as well as the strategies necessary for effective participation. Emphasis will be given to skill acquisition and analysis.

KINS 148. ProAct V - Nontraditional Games and Sports. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Fall only

Students will develop an understanding of the content specific to the design and delivery of non-traditional games and sports. Instruction will focus on performance, skill analysis, methods of teaching, strategies for instruction, and evaluation of skills in K-12 settings. The students will be introduced to a variety of nontraditional games and outdoor activities, as well non-traditional team sports including Lacrosse, Ultimate Frisbee, Speedball, Team Handball, and Field Hockey.

KINS 149. Professional Activities of Health and Skill Related Fitness. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Spring only

Students will develop an understanding of the content specific to the design/delivery of a variety of innovative fitness/wellness learning experiences for individuals in K-12 settings. Emphasis will be placed on movement and its relationship to the components of health fitness when pursuing and promoting a physically active lifestyle. Students will develop skills in assessing fitness levels and implementing strategies for supporting positive behaviors and attitudes toward fitness/wellness for individuals from diverse populations.

KINS 150. Exercise and Sport Physiology. 3 Units
Prerequisite(s): BIO 30 or BIO 26 or equivalent
General Education Area/Graduation Requirement: Laboratory (B3), Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Sports physiology with special emphasis on studying the various systems in the body that are involved in work, exercise and sport. Training programs to improve these systems and their responses will be discussed in a wide variety of settings including exercise for health, fitness, recreation, and sports competition. Lecture two hours; laboratory three hours.
Note: Does not satisfy exercise physiology requirement for Exercise Science majors.

KINS 151. Kinesiology. 3 Units
Prerequisite(s): BIO 22 or equivalent.
Term Typically Offered: Fall, Spring

Anatomical concepts and physical laws as applied to human movement emphasizing the effects of individual and environmental variables. Includes analysis of normal and pathological gait. Lecture two hours; laboratory three hours.

KINS 151A. Biomechanics. 3 Units
Prerequisite(s): KINS 151.
Term Typically Offered: Fall, Spring

Introduction to fundamental mechanical concepts as they apply to human movement. A broad range of human movement will be explored including activities from sport, industrial settings, normal and pathological locomotory skills, and movements involved in manipulating the environment in which we live. Laws of physics, mechanical principles and mathematical concepts will be integrated in studying man as a biological entity. Lecture two hours; laboratory three hours.

KINS 151B. Biomechanics II. 3 Units
Prerequisite(s): BIO 10, BIO 22, KINS 151, and KINS 151A
Term Typically Offered: Fall, Spring

The study of biomechanical theory in regards to quantifying and analyzing human movement. Human movement will be examined from an advanced perspective, including tissue mechanics, the pathomechanics of chronic disease, and exercise and sport performance.

KINS 151C. Dance Kinesiology. 3 Units
Prerequisite(s): BIO 22 or equivalent.
Term Typically Offered: Fall, Spring

Human musculoskeletal and neurological systems, energy production, and biomechanical interrelationships of human motion applied to dance. Emphasis on the nervous, muscular and tendinous structures and the mechanical function of levers and force application and injury prevention for the dancer.

KINS 151D. Applied Kinesiology and Biomechanics. 3 Units
Prerequisite(s): BIO 26 with a grade of C or better.
Term Typically Offered: Fall, Spring

Fundamentals of human movement patterns with an emphasis on applied anatomy, movement principles, movement sequences, applied biomechanics, developmental motor stages and basic movement analysis.
Note: Does not satisfy kinesiology or biomechanics requirements for Exercise Science majors.

KINS 152. Physiology Of Exercise. 3 Units
Prerequisite(s): CHEM 1B or CHEM 6B and BIO 131
Term Typically Offered: Fall, Spring

Study of circulatory, respiratory and metabolic response to exercise in humans under various physiological and ambient conditions. Lecture 2 hours; laboratory 2.5 hours.

KINS 152A. Fundamentals of Exercise Programs. 3 Units
Prerequisite(s): KINS 152.
Term Typically Offered: Fall, Spring

Study of current training programs used in different types of activity. Emphasis will be placed on specific training techniques, nutritional needs, methods of testing/evaluating, and special considerations needed for various populations.

KINS 152B. Exercise Physiology of Women. 2 Units
Term Typically Offered: Fall, Spring

Examines the general physiology of women, how physical activity affects women's physiological functions, and how physiological functions affect women in sport and exercise performance. A comprehensive review of scientific literature is included.

KINS 152C. Prolonged Exercise. 2 Units
Prerequisite(s): An introductory college biology or zoology course.
Term Typically Offered: Fall, Spring

Extensive review of the energy metabolism, cardiovascular and pulmonary function, endocrine response, nutritional need, training effect, and biochemical response to prolonged exercise of 1-6 hours in duration.

KINS 152D. Blood Lactate and Exercise. 2 Units
Prerequisite(s): KINS 152.
Term Typically Offered: Fall, Spring

Reviews the basic aspects of lactate formation, release, and uptake by skeletal muscle and blood during exercise and training. Presents recent clinical and research findings related to physical performance.

KINS 152S. Energy Production & Sports Performance. 3 Units
Prerequisite(s): KINS 152 and co-enrollment in KINS 153 or Instructor Permission Recommended: FACS 10 & FACS 113
Term Typically Offered: Fall, Spring

Study of ergogenic aids, exercise nutrition and exercise performance enhancing drugs/supplements and their physiological effects on energy production and exercise performance. Lecture: 3 hours

KINS 153. Cardiovascular Testing and Exercise Prescription. 3 Units
Prerequisite(s): KINS 152 or instructor permission.
Term Typically Offered: Fall, Spring

Designed to train exercise leaders, exercise test technologists, and exercise program directors. Focus is upon development of basic skills, both administrative and technical, needed to develop a program of graded exercise testing and exercise prescription for asymptomatic and symptomatic populations. Lecture two hours; laboratory three hours.

KINS 153C. Cardiac Rehabilitation & Exercise Electrocardiography. 3 Units
Prerequisite(s): KINS 153 or Instructor Permission
Term Typically Offered: Fall, Spring

Study of cardiac rehabilitation and exercise electrocardiography, reviews clinical pathophysiology and ECG abnormalities during rest, exercise stress testing and cardiac rehabilitation. Lecture 3 hours.

KINS 154A. Principles and Techniques in a Clinical Setting. 3 Units
Prerequisite(s): Athletic Training or Kinesiology majors only; instructor permission
Term Typically Offered: Fall, Spring

Introduction to professional ethics and attire, the allied health care system, patient transfers, wheelchair and ambulation aids, medical terminology and record keeping. Fundamental principles and concepts underlying the therapeutic application of modalities, including methods of administering heat, cold, electricity, sound, light and water are covered.

KINS 154B. Management and Health Care Administration in Athletic Training. 3 Units
Prerequisite(s): Instructor permission only
Term Typically Offered: Fall, Spring

Organization, management and health care administration of athletic training programs. Includes communication skills, budget, facility design and management, legal aspects, drug testing, education, computer use, insurance and record keeping, personnel development (job search, CEUs, licensure), professional and governing organizations, athletic training reporting systems, emergency action plans, blood borne pathogen procedures, preparticipation exam management, health care issues and fundraising.

KINS 154C. Therapeutic Modalities Laboratory. 1 Unit
Prerequisite(s): BIO 22 or BIO 26, and KINS 154A, and KINS 156, and instructor permission.
Term Typically Offered: Fall, Spring

Techniques and clinical skills in the treatment of injuries using therapeutic modalities. Hands-on experience in the clinical application of contemporary therapeutic modalities (electrotherapeutic modalities, hydrotherapeutic modalities, cryotherapy, radiant energy, paraffin, intermittent compression units, traction units, massage) including patient preparation, set-up, dosage determination and operational procedures. Lab two hours.

KINS 155A. Clinical Evaluation of the Upper Extremity. 2 Units
Prerequisite(s): BIO 22 or BIO 26 or Equivalent and KINS 156.
Term Typically Offered: Fall, Spring

Analyzes and performance of evaluation procedures of the upper extremity, head and spine. Includes the development of skills in a patient interviewing, palpation methods, manual muscle testing, neurological and orthopedic assessments and special tests.

KINS 155B. Clinical Evaluation of the Lower Extremity. 2 Units
Prerequisite(s): BIO 22 or BIO 26, KINS 154A, KINS 156.
Term Typically Offered: Fall, Spring

Analyzes and performance of evaluation procedures of the lower extremity, trunk and low back. Includes the development of skills in patient interviewing, palpation methods, manual muscle testing, neurological and orthopedic assessments and special tests.

KINS 156. Care Of Athletic Injuries. 3 Units
Term Typically Offered: Fall, Spring

Application and methods of caring for and preventing athletic injuries through strapping, padding, conditioning, etc.; practical application of first aid and a basic introduction to treatment and rehabilitation of common athletic injuries.

KINS 156A. Emergency Response. 2 Units
Term Typically Offered: Fall, Spring

Underlying principles and applied techniques of first aid. Meets the requirements for the Emergency Response and CPR for the Professional Rescuer certificates of the American Red Cross. Lecture one hour, laboratory two hours.

KINS 157. Therapeutic Exercise. 3 Units
Prerequisite(s): BIO 22 or BIO 26; KINS 151 or KINS 151D; and KINS 155A or KINS 155B
Term Typically Offered: Fall, Spring

Biomechanical principles in the prescription of musculoskeletal rehabilitation exercises. Topics include passive, active and resistive range of motion, manual muscle testing, and exercises for strength, stamina and suppleness for every part of the body.

KINS 158. Motor Learning and Control. 3 Units
Prerequisite(s): BIO 26 or BIO 131 or equivalent
Term Typically Offered: Fall, Spring

Study of the motor and cognitive characteristics of individuals involved in learning and controlling motion skills and the conditions that can influence that learning and control. Lecture two hours; laboratory three hours.

KINS 160. Sport and Exercise Psychology. 3 Units
Term Typically Offered: Fall, Spring

Application of research findings as they apply to psychological performance factors in sport, physical education and exercise settings, such as motivation/adherence, stress management, personality and psychological skills training.

KINS 161. Theory of Sport and Fitness Management. 3 Units
Term Typically Offered: Fall only

This course is designed to introduce students to the basic theory underlying the multiple components of the sport and fitness industry. Fundamental concepts and theories of sports and fitness management will be applied to various segments of the sports industry: professional sports, collegiate sports, community sports and recreation, intramural sports and corporate fitness.

KINS 165. Theory of Coaching. 3 Units
Term Typically Offered: Spring only

Students will be introduced to coaching theory as it relates to developing leadership skills to work with athletes, and teams in the context of organized sport. Topics will include motivation, self-esteem, leadership, communication, competition and cooperation, team management, and optimal performance skills (goal setting, concentration, composure, recovery from mistakes/loss, consistency, and stress management).

KINS 166. Ethics, Inclusion and Equity in Coaching. 3 Units
Term Typically Offered: Fall only

This course educates future coaches on the moral and ethical dilemmas typically encountered in competitive athletics. Students will also develop strategies to address various forms of exclusion and inequity in sports and athletics.

KINS 167. The African American Sport Experience. 3 Units
Term Typically Offered: Fall, Spring

Examination of the experiences of the African American athlete in sport and society, from the period of enslavement to the contemporary era. Topics include gender experiences, intercollegiate experiences, professional sport, and the Olympic games, as well as the interconnections between African American communities and the role of sport. The experiences of African Americans will be compared to those of other ethnic and cultural groups.

KINS 168. Sport and Film. 3 Units
Term Typically Offered: Fall, Spring

This course uses sport films to examine relationships of power in society and the way those relationships are contested and often reinforced. Particular attention will be paid to cultural tensions and negotiations around issues related to race, gender, class, and sexuality. This course utilizes films, with accompanying readings, to understand the institution of sport in American culture, as well to understand how sport is setting where issues of race, class, gender, religion, ability/disability, and sexuality are contested and reinforced.

KINS 169. The Modern Olympic Games. 3 Units
Term Typically Offered: Fall, Spring

A study of the historical development of the modern Olympic Games. Areas covered include politics, nationalism, commercialism, marketing and amateurism. The contribution of athletes and administrators who have help shape the Olympic tradition will be assessed.

KINS 171. Adapted Physical Education: Basic Skill/Fitness Activities and Assessment. 3 Units
Prerequisite(s): KINS 177.
Term Typically Offered: Fall, Spring

Development of competencies for planning, developing, and evaluating effective skill and fitness activities for students with disabilities. Emphasis will be placed on basic skill development, fitness and traditional and alternative assessment strategies and postures assessment and programming for students with disabilities. Information regarding the application of specific standardized assessment instruments for placement decisions will be examined. Students will be required to participate in 15 hours of service learning. Class meets for 2 hours lecture and 2 hours activity.

KINS 172. Movement Education. 3 Units
Prerequisite(s): Liberal Studies or Child Development majors only, or instructor permission
Term Typically Offered: Fall, Spring

Examination of activities and theoretical concepts that relate to the physical, social, emotional and intellectual development of the individual. Content includes: health-related physical fitness, movement concepts, stability, locomotor and manipulative skills, rhythms and dance, gymnastics, games and sport activities.

KINS 176. Perceptual Motor Development. 3 Units
Term Typically Offered: Fall, Spring

Study of the genetic, prenatal, perinatal and postnatal factors affecting the sequential perceptual motor development of children. Inquiry is made into reflexes, sensory motor testing and stimulation, perceptual motor testing and remedial activities in motor development.

KINS 177. Introduction to Adapted Physical Education. 3 Units
Term Typically Offered: Spring only

Historical and philosophical bases for adapted physical education, including the development and management of programs with emphasis on the psychomotor, affective and cognitive domains. The impact of federal and state legislation, legal liability and special health and safety problems will be studied in relationship to the role of the adapted physical education teacher, the interdisciplinary team, the parent and the pupil.

KINS 179. Adapted Physical Education: Program Planning. 3 Units
Prerequisite(s): KINS 171 and KINS 177.
Term Typically Offered: Fall, Spring

Study of the variables in physical education curriculum and program planning - assessment, goals and objectives, development of program content, and evaluation - as related to individuals with disabilities.

KINS 194A. Assigned Field Experience in Kinesiology. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned experience in Kinesiology. Students keep records of daily experiences and prepare periodic progress reports. Students receive one unit of credit for three hours per week for one semester of field experience.
Note: Registration requires prior approval of the department coordinator. May be repeated for a total of five units.

Credit/No Credit

KINS 194B. Assigned Internship in Exercise Science. 1 - 3 Units
Prerequisite(s): KINS 151 and/or KINS 152; or instructor permission.
Term Typically Offered: Fall, Spring

Assigned internship other than in the Human Performance Lab. The student will assist in laboratory experiments and other special procedures; will learn the operation of equipment and sequentially will be expected to administer tests and interpret the results. Interns will be expected to attend monthly conferences.
Note: May be repeated for a total of 3 units.

Credit/No Credit

KINS 194C. Assigned Field Experiences in Pre-Physical Therapy. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned experience under the direction of a physical therapist. Students keep records of their experiences. Registration requires prior approval of the pre-physical therapy coordinator.
Note: May be repeated up to a total of 6 units. Open to Physical Education majors in the pre-physical therapy option.

Credit/No Credit

KINS 194D. Assigned Field Experience in Coaching. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned experience in coaching (two hours daily for the full schedule of the sport for two units of credit). Students keep records of daily experiences and prepare periodic progress reports. Succeeding enrollments should be in different sports.
Note: May be repeated for a total of 6 units.

Credit/No Credit

KINS 194E. Assigned Internship in Adapted Physical Education. 1 - 3 Units
Prerequisite(s): Any two of the following: KINS 171, KINS 176, KINS 177, or KINS 179; permission of adapted credential advisor.
Term Typically Offered: Fall, Spring

Assigned experience in the conduct of Adapted Physical Education Programs. Students will keep records of their experiences. Three clock hours per week per unit of credit. Credential candidates may not use in lieu of Phase III requirements.
Note: May be repeated up to six times for credit for a maximum of 6 units.

Credit/No Credit

KINS 194F. Assigned Field Experience in Allied Health. 1 - 3 Units
Term Typically Offered: Fall, Spring

Practical experience in Occupational Therapy, Chiropractic or other allied health professions. Students keep records of their experiences while working under the direct supervision of a licensed clinician. Registration requires prior approval of a Pre-Physical Therapy advisor.
Note: May be repeated up to a total of 6 units.

Credit/No Credit

KINS 194G. Assigned Professional Experience. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned professional experience in organization and evaluation of physical education, athletic training, exercise or pre-therapy. Students work closely with a Sacramento State faculty member and receive one unit of credit for three hours of work per week for one semester.
Note: May be repeated for a total of 3 units toward graduation. These units may not be applied to the major.

Credit/No Credit

KINS 194H. Assigned Field Experience in Athletic Training. 1 - 3 Units
Prerequisite(s): Instructor's permission only
Term Typically Offered: Fall, Spring

Practical experience in athletic training under the direct supervision of an NATA Certified Athletic Trainer in one of the following settings: professional athletics, high school, clinic, industrial or private business.
Note: Registration requires prior approval of the program director. May be repeated up to a total of 3 units.

Credit/No Credit

KINS 195A. Directed Field Experience in Kinesiology. 1 - 2 Units
Term Typically Offered: Fall, Spring

Directed experience in the conduct of physical education. Students keep records of daily experiences and prepare periodic progress reports. Students receive one unit of credit three hours per week for one semester of field experience.
Note: Registration requires prior approval of the department coordinator. May be repeated for a total of 5 units.

Credit/No Credit

KINS 195B. Directed Internship in Exercise Science. 1 - 3 Units
Prerequisite(s): KINS 151 and/or KINS 152; or instructor permission.
Term Typically Offered: Fall, Spring

Directed internship in the Human Performance Laboratory under the supervision of one or more members of the faculty. The student will assist in laboratory experiments and other special procedures; will learn the operation of equipment and sequentially will be expected to administer tests and interpret the results. Interns will be expected to attend monthly conferences.
Note: May be repeated for a total of 3 units.

Credit/No Credit

KINS 195C. Directed Observation in Athletic Training. 1 - 2 Units
Prerequisite(s): Requires prior approval of Program Director
Term Typically Offered: Fall, Spring

Planned student observation of the health care practices of the Athletic Trainer and other sports medicine personnel in a clinical setting. Selected NATA competencies may be completed on site. 60 hours per unit. .
Note: May be repeated for up to 4 units total credit.

Credit/No Credit

KINS 195D. Practicum in Athletic Training. 4 Units
Prerequisite(s): Instructor's permission only
Term Typically Offered: Fall, Spring

Supervised athletic training experience in the athletic training room under the direct supervision of a Certified Athletic Trainer. Included are a series of guest lecturers from the medical and paramedical field presenting lectures and demonstrations on topics in sports medicine. 300 hours plus all lectures are 4 units.
Note: Can be taken a minimum of four times and maximum of five times for credit, with the total units not to exceed 20 units.

Credit/No Credit

KINS 196. Experimental Offerings in Kinesiology. 2 - 3 Units
Term Typically Offered: Fall, Spring

Guided study and discussion of problems and topics in kinesiology. Supplemental readings, reports, and term projects are included. Proseminars dealing with specific topics or problems will be scheduled when the need exists.
Note: May be repeated for credit up to three times for credit.

KINS 196F. Therapeutic Exercise for Chronic Conditions. 3 Units
Prerequisite(s): Bio 22 or equivalent
Term Typically Offered: Fall, Spring

This course is designed to develop knowledge of fundamental disease processes in common chronic conditions and related exercise management. The general concepts of common chronic disease, including etiology, pathogenesis, morphology, co-morbidities and basic exercise prescription will be investigated.

KINS 196G. Sleep, Health and Athletic Performance. 3 Units
Term Typically Offered: Fall, Spring

This course is designed to introduce concepts related to sleep, circadian rhythm, human physiology, and behavior as they impact physical function, health and athletic performance. Concepts related to sleep, sleep deprivation, cognitive function, and learning outcomes in college students will be investigated. Students will have an opportunity to learn about devices used to collect data and analyze individual sleep patterns.

KINS 198A. Seminar in Physical Education - Elementary. 2 Units
Prerequisite(s): KINS 381 and EDTE 474A.
Corequisite(s): KINS 380 and EDTE 474B.
Term Typically Offered: Fall, Spring

Open to physical education single subject credential candidates this course accompanies an eight-week elementary student teaching experience. The focus is twofold: a) engage student teachers in the planning, instruction and assessment of an elementary physical education program aligned with state standards b) support student teachers with the Performance Assessment for California Teachers (PACT). Candidates will be expected to create a class environment that ensures the safe and productive participation in developmentally appropriate elementary physical education.

KINS 198B. Seminar in Physical Education - Secondary. 1 Unit
Prerequisite(s): KINS 198A.
Corequisite(s): EDTE 474B.
Term Typically Offered: Fall, Spring

Open to physical education single subject credential candidates this eight-week course accompanies an eight-week secondary student teaching experience. The focus is twofold: a) engage student teachers in the planning, instruction and assessment of a secondary physical education program aligned with state standards b) support student teachers with the Performance Assessment for California Teachers (PACT). Candidates will be expected to create a class environment that ensures the safe and productive participation in developmentally appropriate secondary physical education.

KINS 199. Directed Individual Study. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual research, project or directed reading. Open only to majors who appear competent to carry on individual work. Approval of the faculty under whom the individual work is to be conducted, and approval of the Department Chair required. Formal written report required.
Note: May be repeated for credit.

Credit/No Credit

KINS 203. Specificity of Conditioning. 3 Units
Term Typically Offered: Fall, Spring

Survey of current research in training regimen of conditioning programs designed to optimize physical conditioning in preparation for specific athletic competitions.

KINS 209. Graduate Studies in Kinesiology. 3 Units
Term Typically Offered: Fall, Spring

An overview of the varied subdisciplines, such as sport pedagogy, motor learning, strength and conditioning, sport psychology, cultural studies of sport, exercise physiology, and biomechanics. Students will read research from each subdiscipline and be able to make interdisciplinary connections.

KINS 210. Research Methods in Kinesiology. 3 Units
Term Typically Offered: Fall, Spring

Various methods and techniques of educational research as they are commonly applied in the field of Kinesiology; study of examples of their use in published research; practice in applying them to problems of interest to the student; analyzing data and writing research reports.

KINS 211. Research Seminar. 1 Unit
Term Typically Offered: Fall, Spring

Students develop and defend research proposals. Students registering for KINS 500 for the first time must register for KINS 211 concurrently.
Note: Student must re-enroll if proposal is not completed and accepted during the first registration

Credit/No Credit

KINS 236. Sport and Society. 3 Units
Term Typically Offered: Fall, Spring

Society and the institution of sport interact in a variety of ways. Students are given the opportunity to investigate and discuss in-depth a wide range of topics linking sport and society. Among these topics are violence and aggression, politics, racism, sexism, counter-cultures, mass media and the future of sport. The application of research to the real world is an integral part of the course.

KINS 245. Administration of Physical Education and Athletics. 3 Units
Term Typically Offered: Fall, Spring

The organization and administration of physical education and athletic programs and the functional considerations involved. Primary areas include: personnel, curriculum, budgeting, contract management, public relations, liability and safety, critical issues, and procedures essential to quality programs.

KINS 250. Advanced Exercise Physiology Laboratory. 3 Units
Prerequisite(s): KINS 152 or instructor permission.
Term Typically Offered: Fall, Spring

Describes, explains, and practices the application of selected measurement techniques in the laboratory as they relate to pertinent research in the areas of exercise physiology. Emphasis will be placed on the use and calibration of equipment as well as adaptation of equipment to different research settings. Lecture two hours; laboratory three hours.

KINS 252. Advanced Exercise Physiology. 3 Units
Prerequisite(s): 1 year of General Chemistry, BIO 131 or equivalent, KINS 152 or equivalent, and KINS 153 or equivalent.
Term Typically Offered: Fall, Spring

Human physiological responses, from the cellular level to organ system level, to both acute and chronic exercise will be studied in detail with an emphasis on integrative physiological responses to exercise. The course will emphasize a complex regulatory systems approach to the changes and adaptations that occur with exercise. Specifically, how the regulatory systems dictate these changes. The course will aid in the understanding of both theoretical and integrative concepts in the area of exercise physiology. The course will provide a solid foundation that is needed to review and understand complex research in exercise physiology.

KINS 254. Advanced Biomechanics. 3 Units
Prerequisite(s): KINS 151, KINS 210; or instructor permission.
Term Typically Offered: Fall, Spring

Study human movement from a mechanical perspective utilizing laws of physics and relevant functional anatomical principles. Human movement will be looked at from a broad perspective, including basic movements to more complex skills. Students will use a variety of techniques to study the biomechanical principles of movement production including laboratory work, library research and examination of the appropriate theoretical constructs. Lecture two hours; laboratory three hours.

KINS 258. Research in Motor Learning. 3 Units
Prerequisite(s): KINS 158, KINS 210, or instructor permission.
Term Typically Offered: Fall, Spring

Designed to provide students with a solid foundation experience in motor learning; focus is on an intensive examination of a selected topic in motor learning; directed individual pilot study and the nature of original laboratory research.

KINS 259. Research in Exercise Physiology. 3 Units
Prerequisite(s): KINS 152, KINS 210, or instructor permission.
Term Typically Offered: Fall, Spring

Provides students with a solid foundation experience in human performance research. Primary focus is on intensive examination of selected advanced topics in exercise physiology.

KINS 260. Psychology Of Sport. 3 Units
Term Typically Offered: Fall, Spring

The in-depth study of parameters of human behavior as specifically related to sport including personality factors, motivational techniques, expectancy effects, group dynamics, leadership issues, aggression, arousal, concentration, and goal setting.

KINS 262. Psychological Aspects of Peak Performance. 3 Units
Term Typically Offered: Fall, Spring

In-depth examination of current research relating to theories of and techniques for performance enhancement in sport and dance through psychological skills strategies.

KINS 270. Instructional Strategies for Physical Activity and Sport. 3 Units
Term Typically Offered: Fall, Spring

Study of theoretical concepts, models and research that relates to organizational and instructional strategies for physical activity and sport. Along with developing problem solving and critical thinking skills, provides the student with the opportunity to partake in self-directed and cooperative learning experiences, and develops communications skills that will enhance staff development and teaching of individuals and groups in a variety of physical activity and sport environments.

KINS 276. Teaching and Coaching Effectiveness. 3 Units
Term Typically Offered: Fall, Spring

Study of the research methodology, systematic observation, and findings that relate to effective teaching and coaching in the school environment. Provides an analytical approach to the investigation of teaching and coaching behaviors by examining models and critical variables involved in describing, analyzing and interpreting the instructional process.

KINS 294A. Contemporary Topics in Sport Performance. 1 - 3 Units
Prerequisite(s): KINS 210.
Term Typically Offered: Fall, Spring

Advanced research seminars on topics of contemporary interest. Specific topics will vary.
Note: May be taken more than once for credit, provided topic is not repeated.

KINS 294B. Contemporary Topics in Exercise Physiology. 1 - 3 Units
Prerequisite(s): KINS 210.
Term Typically Offered: Fall, Spring

Advanced research seminars on topics of contemporary interest. Specific topics will vary.
Note: May be taken more than once for credit, provided topic is not repeated.

KINS 294C. Special Topics in Biomechanics. 1 - 3 Units
Prerequisite(s): KINS 254.
Term Typically Offered: Fall, Spring

Advanced research seminars on varied topics of contemporary interest.
Note: May be taken more than once for credit, provided topic is not repeated.

KINS 295. Practicum. 1 - 3 Units
Prerequisite(s): Approval of graduate faculty advisor and graduate coordinator.
Term Typically Offered: Fall, Spring

Graduate experiences in a practical setting.
Note: Open only to graduate students within the Physical Education Department.

Credit/No Credit

KINS 296A. Experimental Elementary Physical Education Workshop. 1 Unit
Term Typically Offered: Fall, Spring

Overview of the total elementary physical education curriculum. Major focus will be on appropriate practices, national content standards, establishing a learning environment, movement concepts, skill themes, and health-related physical fitness. Designed to meet the physical education component for graduate students seeking a multiple subject credential.
Note: Not open to undergraduate students, and it does not substitute for KINS 172.

Credit/No Credit

KINS 299. Directed Individual Study. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual research, project, or directed reading.
Note: Open only to majors who appear competent to carry on individual work. Admission to this course requires approval of the graduate advisor and the graduate coordinator. Formal written report required. May be repeated for credit.

Credit/No Credit

KINS 380. Methods of Teaching Elementary Physical Education. 1.5 Units
Prerequisite(s): KINS 130,
Corequisite(s): KINS 198A
Term Typically Offered: Fall, Spring

KINS 380 is an 8 week course designed for the future physical educator who wishes to deliver an effective, meaningful elementary physical education curriculum to a diverse population of students. Emphasis is on physical education pedagogy - the skills and techniques that successful teachers use to ensure student learning.

KINS 381. Methods of Teaching Secondary Physical Education. 1.5 Units
Corequisite(s): EDTE 366A
Term Typically Offered: Fall, Spring

An 8 week course, KINS 381 is designed for the future physical educator who wishes to deliver an effective meaningful physical education curriculum to a diverse population of students. Emphasis is on physical education pedagogy - the skills and techniques that successful teachers use to ensure student learning.

KINS 500. Culminating Experience. 1 - 4 Units
Prerequisite(s): Advanced to candidacy. Completion of KINS 211 or concurrent enrollment.
Term Typically Offered: Fall, Spring

Completion of a thesis or project under the direction of a department committee.

BS in Exercise Science

Units required for Major: 60
Units required for Health Fitness/Strength Conditioning Specialist Option: 60
Units required for Clinical Exercise & Rehabilitation Specialist Option: 60
Total units required for BS: 120

Program Description

Exercise Science program mission is to study the scientific basis of how the human body functions across the lifespan in response to physical activity, exercise and sport. Exercise Science curriculum integrates knowledge from such science disciplines as biology, chemistry, and physiology so that students will gain a deep integrative understanding of human body functions at the mechanical, cellular, organ, and systems levels.

The major in Exercise Science qualifies an individual for career possibilities in cardiac rehabilitation, sports medicine, chiropractic, athletic training, geriatrics, health related fitness programming (fitness and corporate), and further scientific training in graduate school. The major has two options: 1) Health Fitness/Strength Conditioning and 2) Clinical Exercise & Rehabilitation

The Health Fitness/Strength Conditioning Specialist emphasis is designed for students who are interested in advanced scientific knowledge of how physical activity, exercise and sport alter health and human performance. Many students from this option pursue careers in fitness and corporate wellness, strength conditioning, and further their scientific training in graduate school.

The Clinical Exercise and Rehabilitation Specialist emphasis is designed for students who want to develop the knowledge, skills, and expertise required to work in a clinical rehabilitation setting. Students who complete this emphasis are prepared for careers in cardiac rehabilitation, clinical exercise physiology, electrophysiology, and clinical graduate programs such as Physical Therapy, Occupational Therapy, and other health related professional preparation programs.

Note: Students graduating with a **BS in Exercise Science** will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Pre-Major Requirements

Freshman or transfer students interested in the BS in Exercise Science are admitted as Pre-Exercise Science Major students.

To change to a BS in Exercise Science, Pre-major students are required to complete the following grade and course requirements and submit a Declaration of Major/Concentration to the Kinesiology Department Office along with transcript copies.

1. An overall GPA of 2.0.
2. Completion of the **Pre-Major required courses** with a "C-" or better. Only first and second attempts will be considered.

Minimum Grade Requirement

All courses counted for the Exercise Science major must be completed with a 'C-' or better.

Program Requirements

Code	Title	Units
Pre-Major Required Courses (17 Units)		
BIO 10	Basic Biological Concepts [1]	3
BIO 22	Introductory Human Anatomy	4
CHEM 1A	General Chemistry I [1]	5
or CHEM 6A	Introduction to General Chemistry	
CHEM 1B	General Chemistry II	5
or CHEM 6B	Introduction to Organic and Biological Chemistry	
Required Upper Division (30 Units)		
BIO 131	Systemic Physiology	4
KINS 151	Kinesiology	3
KINS 151A	Biomechanics	3
KINS 152	Physiology Of Exercise	3
KINS 152A	Fundamentals of Exercise Programs	3
KINS 152S	Energy Production & Sports Performance	3
KINS 144	Analysis of Weight Training & Muscular Fitness	2
KINS 153	Cardiovascular Testing and Exercise Prescription	3
KINS 156	Care Of Athletic Injuries	3
KINS 158	Motor Learning and Control	3
Specialist Options (13 Units)		
Select one of the following specialist options:		13
Health Fitness/Strength Conditioning Specialist Option		
Clinical Exercise & Rehabilitation Specialist Option		
Total Units		60

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Health Fitness/Strength Conditioning Specialist Option

In prior consultation with an exercise science advisor, a minimal of 13 units from the recommended list of courses below are required **in addition to the core courses above:**

Code	Title	Units
Select a minimum of 13 units from the following:		13
NUFD 10	Nutrition And Wellness	
NUFD 113	Nutrition And Metabolism	
KINS 120	Strength and Conditioning	
KINS 122B	Cardiopulmonary Resuscitation	
KINS 132	Planning, Designing and Managing a Fitness Center	
KINS 136	Sport And Aging	
KINS 151B	Biomechanics II	
KINS 152B	Exercise Physiology of Women	
KINS 152C	Prolonged Exercise	

KINS 152D	Blood Lactate and Exercise	
KINS 160	Sport and Exercise Psychology	
PHYS 5A	General Physics: Mechanics, Heat, Sound [1]	
STAT 1	Introduction to Statistics [1]	
Total Units		13

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Clinical Exercise & Rehabilitation Specialist Option

In prior consultation with an exercise science advisor, a minimal of 13 units from the recommended list of courses below are required **in addition to the core courses above:**

Code	Title	Units
Select a minimum of 13 units from the following:		13
BIO 39	Microbiology for Allied Health Students	
BIO 106	Genetics: From Mendel to Molecules	
BIO 122	Advanced Human Anatomy	
BIO 123	Neuroanatomy	
BIO 130	Histology	
BIO 132	Neurophysiology	
BIO 133	Cardiovascular, Respiratory and Renal Physiology	
CHEM 20	Organic Chemistry Lecture--Brief Course	
CHEM 161	General Biochemistry	
NUFD 10	Nutrition And Wellness	
NUFD 113	Nutrition And Metabolism	
KINS 122B	Cardiopulmonary Resuscitation	
KINS 151B	Biomechanics II	
KINS 153C	Cardiac Rehabilitation & Exercise Electrocardiography	
KINS 154A	Principles and Techniques in a Clinical Setting	
NURS 14	Pharmacology	
PHYS 5A	General Physics: Mechanics, Heat, Sound [1]	
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics	
PSYC 150	Psychological Aspects of Aging	
or PSYC 168	Abnormal Psychology	
STAT 1	Introduction to Statistics [1]	
Total Units		13

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (0-6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [3]		0 - 3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [4]		0 - 3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (0-3 Units)		
Area E Course [5]		0 - 3
Total Units		33-42

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following option' within the Specialist Options:
- If student chooses to take STAT 1, they will meet Area B4.

[4] Department offers students a 'select from the following option' within the Specialist Options:
- If student chooses to take FACS 113, they will meet Area B5.

[5] Department offers students a 'select from the following option' within the Specialist Options:
- If student chooses to take FACS 10, they will meet Area E.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/
Note: Students with a declared major of BS in Kinesiology (Exercise Science) are exempt from the Foreign Language Graduation Requirement.

BS in Kinesiology (Athletic Administration)

Units required for Major: 60
Total units required for BS: 120

Program Description

The Bachelor of Science degree in Kinesiology provides students with a multi-disciplinary approach to the study of human movement, a strong foundation in the natural and social sciences, and the knowledge and skills necessary to prepare students for careers in fields such as physical education, athletic coaching, athletic administration, corporate or commercial wellness, older adult fitness, athletic training, and other physical activity related professions.

The BS in Kinesiology offers five concentrations designed to meet students' specific academic needs and career interests in the areas of Physical Education Teacher Education, Athletic Coaching Education, Athletic Administration, Physical Activity and Wellness, and Athletic Care.

The **Athletic Administration Concentration** helps prepare students for future careers in the business of sports at the amateur, collegiate, and professional levels. The curriculum provides students with knowledge in the multiple sub-disciplines of Kinesiology as well as foundational business skills and hands-on experience in one or more areas of sport management including leadership, marketing, law, finance, and event planning. Students will also develop stronger communication, critical thinking, and problem-solving skills.

Note: Additional units may be required to meet the Sacramento State foreign language requirement.

Minimum Grade Requirement

All courses listed must be completed with a grade of 'C' or better.

Program Requirements

Code	Title	Units
Required Lower Division (8 Units)		
BIO 25	Human Anatomy and Physiology I	4
BIO 26	Human Anatomy and Physiology II	4
Required Upper Division (23 Units)		
KINS 101	Introduction to Kinesiology	2
KINS 134	History and Philosophy of Physical Education and Sport	3
KINS 137	Sociology Of Sport	3
KINS 138	Sport Pedagogy	3
KINS 150	Exercise and Sport Physiology	3
KINS 151D	Applied Kinesiology and Biomechanics	3
KINS 158	Motor Learning and Control	3
KINS 160	Sport and Exercise Psychology	3
Concentration Requirements (28-29 Units)		
Select one of the following five areas of concentration:		28 - 29
Athletic Care		
Athletic Coaching Education		
Physical Activity and Wellness		
Physical Education Teacher Education		
Sport Management		
Total Units		59-60

Concentration in Athletic Administration (29 Units)

Code	Title	Units
Required Concentration Courses (11 Units)		
KINS 139	Leadership and Communication	3
KINS 161	Theory of Sport and Fitness Management	3
KINS 165	Theory of Coaching	3
KINS 194D	Assigned Field Experience in Coaching [1]	2
Electives (18 Units)		
Select six from the following:		18
Courses in Leadership and Communication		
COMS 103	Presentational Speaking in the Organization	
COMS 179	Media, Sports, and Society	
COMS 119	Conflict Resolution Through Communication	
or HROB 155	Conflict Management and Negotiation	
KINS 121	Peak Performance Through Psychological Skills	
KINS 166	Ethics, Inclusion and Equity in Coaching	
RPTA 32	Leadership and Group Development	
Courses in Development, Budgeting and Fundraising		
RPTA 60	Budgeting for Recreation Services	
RPTA 107	Grant Writing for Leisure Organizations	
RPTA 164	Leadership and Fundraising for Non-profit Organizations	
RPTA 166	Administration in Recreation, Parks and Tourism	
Courses in Marketing		
MKTG 101	Principles Of Marketing	
MKTG 140	Sports Marketing	
RPTA 183	Marketing Recreation Services	
Courses in Event Planning and Programming		
RPTA 105	Management in Recreation, Parks and Tourism	
RPTA 106	Introduction to Inclusive Recreation and Recreation Therapy	
RPTA 130	Community Sport Programming	
RPTA 132	Campus Recreation	

RPTA 136	Program and Event Planning in Recreation, Parks and Tourism	
RPTA 139	Conference and Meeting Planning	
RPTA 165	Volunteer Management in Recreation, Parks and Tourism	
Total Units		29

[1] Students will receive 2 units of credit for KINS 194D.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (9 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]		0
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		45

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BS in Kinesiology (Athletic Care)

Units required for Major: 59-60
Total units required for BS: 120

Program Description

The Bachelor of Science degree in Kinesiology provides students with a multi-disciplinary approach to the study of human movement, a strong foundation in the natural and social sciences, and the knowledge and skills necessary to prepare students for careers in fields such as physical education, athletic coaching, athletic administration, corporate or commercial wellness, older adult fitness, athletic training, and other physical activity related professions.

The BS in Kinesiology offers five concentrations designed to meet students' specific academic needs and career interests in the areas of Physical Education Teacher Education, Athletic Coaching Education, Athletic Administration, Physical Activity and Wellness, and Athletic Care.

The **Athletic Care Concentration** is designed to provide students with the basics in injury evaluation, immediate care, rehabilitation, and injury prevention. Students in this concentration will develop knowledge and practical skills to pursue advanced study and future careers in athletic training, sports medicine, and other paramedical areas. Upon completion of the degree, students are also encouraged to pursue a teaching credential.

Note: Additional units may be required to meet the Sacramento State foreign language requirement.

Minimum Grade Requirement

All courses listed must be completed with a grade of 'C' or better.

Program Requirements

Code	Title	Units
Required Lower Division (8 Units)		
BIO 25	Human Anatomy and Physiology I	4
BIO 26	Human Anatomy and Physiology II	4
Required Upper Division (23 Units)		
KINS 101	Introduction to Kinesiology	2

KINS 134	History and Philosophy of Physical Education and Sport	3
KINS 137	Sociology Of Sport	3
KINS 138	Sport Pedagogy	3
KINS 150	Exercise and Sport Physiology	3
KINS 151D	Applied Kinesiology and Biomechanics	3
KINS 158	Motor Learning and Control	3
KINS 160	Sport and Exercise Psychology	3
Concentration Requirements (28-29 Units)		
Select one of the following five areas of concentration:		28 - 29
Athletic Administration		
Athletic Care		
Athletic Coaching Education		
Physical Activity and Wellness		
Physical Education Teacher Education		
Total Units		59-60

Concentration in Athletic Care (29 Units)

Code	Title	Units
Required Concentration Courses (21 Units)		
CHEM 1A	General Chemistry I	5
or CHEM 6A	Introduction to General Chemistry	
PHYS 5A	General Physics: Mechanics, Heat, Sound	4
KINS 155A	Clinical Evaluation of the Upper Extremity	2
KINS 155B	Clinical Evaluation of the Lower Extremity	2
KINS 156	Care Of Athletic Injuries	3
KINS 157	Therapeutic Exercise	3
KINS 194A	Assigned Field Experience in Kinesiology [1]	2
Electives (8 Units)		
Select three of the following:		8
CHEM 6B	Introduction to Organic and Biological Chemistry	
NUFD 10	Nutrition And Wellness	
NUFD 113	Nutrition And Metabolism	
NUFD 120	Practical Application in Sports Nutrition	
GERO 100	Aging Issues in Contemporary America	
GERO 121	Strategies for Optimal Aging	
GERO 122	Managing Disorders in Elders	
KINS 122B	Cardiopulmonary Resuscitation	
PUBH 148	Epidemiology	
PSYC 137	Stress Management	
STAT 1	Introduction to Statistics	
Total Units		29

[1] Students will receive 2 units of credit for KINS 194A.

General Education [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (9 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]		0
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		45

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BS in Kinesiology (Athletic Coaching Education)

Units required for Major: 59-60
Total units required for BS: 120

Program Description

The Bachelor of Science degree in Kinesiology provides students with a multi-disciplinary approach to the study of human movement, a strong foundation in the natural and social sciences, and the knowledge and skills necessary to prepare students for careers in fields such as physical education, athletic coaching, athletic administration, corporate wellness, commercial fitness, older adult fitness, and athletic training.

The BS in Kinesiology offers five concentrations designed to meet students' specific academic needs and career interests in the areas of Athletic Administration, Athletic Care, Athletic Coaching Education, Physical Activity and Wellness, and Physical Education.

The Athletic Coaching Education concentration provides students with knowledge and practical experience in supporting careers in athletic and community settings, athletic coaching, mental performance enhancement, and community and youth physical activity and sport programs. Students will also be eligible to earn a Coaching Certification from the American Sport Education Program (ASEP), which is required to coach at the high school level in the state of California (as mandated by the California Interscholastic Federation). This concentration also prepares students for advanced study in athletic coaching, administration, and other sport-related programs (e.g., sport psychology, sport sociology). Note: *The ASEP coaching certification does not fulfill the requirements for a Single Subject Physical Education California Teaching Credential. To be eligible for the teaching credential, students should meet the requirements for the Physical Education Teacher Education Concentration.

Note: Additional units may be required to meet the Sacramento State foreign language requirement.

Minimum Grade Requirement

All courses listed must be completed with a grade of 'C' or better.

Program Requirements

Code	Title	Units
Required Lower Division (8 Units)		
BIO 25	Human Anatomy and Physiology I	4
BIO 26	Human Anatomy and Physiology II	4
Required Upper Division (23 Units)		
KINS 101	Introduction to Kinesiology	2
KINS 134	History and Philosophy of Physical Education and Sport	3
KINS 137	Sociology Of Sport	3
KINS 138	Sport Pedagogy	3
KINS 150	Exercise and Sport Physiology	3
KINS 151D	Applied Kinesiology and Biomechanics	3
KINS 158	Motor Learning and Control	3
KINS 160	Sport and Exercise Psychology	3
Concentration Requirements (28-29 Units)		
Select one of the following five areas of concentration:		28 - 29
Athletic Care		
Athletic Coaching Education		
Physical Activity and Wellness		
Physical Education Teacher Education		
Sport Management		
Total Units		59-60

Concentration in Athletic Coaching Education (29 Units)

Code	Title	Units
Required Concentration Courses (20 Units)		
KINS 120	Strength and Conditioning	3
KINS 121	Peak Performance Through Psychological Skills	3
KINS 139	Leadership and Communication	3
KINS 141	PRO ACT I - Dual Sports	3
or KINS 145	Pro Act III - Team Sports	
or KINS 146	PRO ACT IV Individual Sports	
KINS 165	Theory of Coaching	3
KINS 166	Ethics, Inclusion and Equity in Coaching	3
KINS 194D	Assigned Field Experience in Coaching [1]	2
Electives (9 Units)		
Select three of the following:		9
KINS 110	Women and Sport	
KINS 141	PRO ACT I - Dual Sports	
KINS 142	Professional Activities II - Creative Movement and Dance	
KINS 144	Analysis of Weight Training & Muscular Fitness	
KINS 145	Pro Act III - Team Sports	
KINS 146	PRO ACT IV Individual Sports	
KINS 148	ProAct V - Nontraditional Games and Sports	
KINS 149	Professional Activities of Health and Skill Related Fitness	
KINS 156	Care Of Athletic Injuries	
RPTA 32	Leadership and Group Development	
RPTA 130	Community Sport Programming	
NUFD 10	Nutrition And Wellness	
NUFD 113	Nutrition And Metabolism	
NUFD 120	Practical Application in Sports Nutrition	
PSYC 137	Stress Management	
Total Units		29

[1] Students will receive 2 units of credit for KINS 194D.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3

A2 - Written Communication	3
A3 - Critical Thinking	3
Area B: Physical Universe and Its Life Forms (9 Units)	
B1 - Physical Science	3
B2 - Life Forms	3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]	0
B4 - Math Concepts	3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]	0
Area C: Arts and Humanities (12 Units)	
C1 - Arts	3
C2 - Humanities	3
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (12 Units)	
Area D Course	3
Area D Course	3
Area D Course	3
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	45

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BS in Kinesiology (Physical Activity and Wellness)

Units required for Major: 59-60
Total units required for BS: 120

Program Description

The Bachelor of Science degree in Kinesiology provides students with a multi-disciplinary approach to the study of human movement, a strong foundation in the natural and social sciences, and the knowledge and skills necessary to prepare students for careers in fields such as physical education, athletic coaching, athletic administration, corporate or commercial wellness, older adult fitness, athletic training, and other physical activity related professions.

The BS in Kinesiology offers five concentrations designed to meet students' specific academic needs and career interests in the areas of Physical Education Teacher Education, Athletic Coaching Education, Athletic Administration, Physical Activity and Wellness, and Athletic Care.

The **Physical Activity and Wellness Concentration** provides students with knowledge and practical experience in supporting careers in areas such as personal training, fitness center management, commercial and corporate wellness, and older adult fitness. It will also prepare students for advanced studies in sport and exercise psychology or other physical activity related programs.

Note: Additional units may be required to meet the Sacramento State foreign language requirement.

Minimum Grade Requirement

All courses listed must be completed with a grade of 'C' or better.

Program Requirements

Code	Title	Units
Required Lower Division (8 Units)		
BIO 25	Human Anatomy and Physiology I	4
BIO 26	Human Anatomy and Physiology II	4
Required Upper Division (23 Units)		
KINS 101	Introduction to Kinesiology	2
KINS 134	History and Philosophy of Physical Education and Sport	3
KINS 137	Sociology Of Sport	3
KINS 138	Sport Pedagogy	3
KINS 150	Exercise and Sport Physiology	3
KINS 151D	Applied Kinesiology and Biomechanics	3
KINS 158	Motor Learning and Control	3
KINS 160	Sport and Exercise Psychology	3
Concentration Requirements (28-29 Units)		
Select one of the following five areas of concentration:		28 - 29

Athletic Administration

Athletic Care	
Athletic Coaching Education	
Physical Activity and Wellness	
Physical Education Teacher Education	
Total Units	59-60

Concentration in Physical Activity and Wellness

Code	Title	Units
Required Concentration Courses (16 Units)		
KINS 99	Exercise for Healthy Living	2
KINS 120	Strength and Conditioning	3
KINS 132	Planning, Designing and Managing a Fitness Center	3
KINS 136	Sport And Aging	3
KINS 149	Professional Activities of Health and Skill Related Fitness	3
KINS 194A	Assigned Field Experience in Kinesiology [1]	2
Electives (12 Units)		
Select four or more of the following:		12
KINS 110	Women and Sport	
KINS 121	Peak Performance Through Psychological Skills	
KINS 122B	Cardiopulmonary Resuscitation	
KINS 144	Analysis of Weight Training & Muscular Fitness	
KINS 152B	Exercise Physiology of Women	
KINS 152C	Prolonged Exercise	
KINS 156	Care Of Athletic Injuries	
KINS 165	Theory of Coaching	
KINS 166	Ethics, Inclusion and Equity in Coaching	
GERO 100	Aging Issues in Contemporary America	
GERO 121	Strategies for Optimal Aging	
GERO 122	Managing Disorders in Elders	
NUFD 10	Nutrition And Wellness	
NUFD 113	Nutrition And Metabolism	
NUFD 120	Practical Application in Sports Nutrition	
PSYC 137	Stress Management	
Total Units		28

General Education[1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (9 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]		0
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		45

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BS in Kinesiology (Physical Education)

Units required for Major: 57
Total units required for BS: 120

Program Description

The physical education concentration is designed with two options: the first option, Physical Education Teacher Education (PETE), prepares students for a teaching career in physical education. The student who completes the program in physical education will have the breadth and depth of knowledge regarding developmentally appropriate physical education. The PETE option provides students with the coursework for both subject matter content and pedagogy for teaching physical education at the K-12 level. Students who choose this option will then have the opportunity to attain their Single Subject Physical Education California Teaching Credential, an additional two semester program through the Department of Teacher Education at Sacramento State.

The second option, Sport Studies, prepares students for a career in a variety of movement settings, other than the traditional physical education teaching career. These movement settings include club and high school athletics, intercollegiate athletics, and professional athletics, in the fields of coaching, conditioning, and administration. The Sport Studies option does not meet the standards for subject matter preparation and the Sport Studies student would need to complete additional coursework to qualify for admission to pursue the Physical Education Teaching Credential at Sacramento State and other institutions.

The student who completes the PETE or Sport Studies option will understand the aesthetics of movement and human performance and the meaningfulness of physical activity in lifelong learning. Additionally, the student will gain knowledge of the historical and philosophical factors that relate to performance, fitness and wellness.

Note: Additional units may be required to meet the Sacramento State foreign language requirement.

Minimum Grade Requirement

All courses listed must be completed with a grade of 'C' or better.

Program Requirements

Code	Title	Units
Required Core (13 Units)		
BIO 30	Anatomy & Physiology - Brief Course	4
KINS 150	Exercise and Sport Physiology [1]	3
KINS 151D	Applied Kinesiology and Biomechanics	3
KINS 176	Perceptual Motor Development	3
Required Upper Division Courses (18 Units)		
KINS 133	Integration of Concepts [1]	3
KINS 134	History and Philosophy of Physical Education and Sport	3
KINS 135	Assessment Strategies in Physical Education	3
KINS 137	Sociology Of Sport	3
KINS 138	Sport Pedagogy	3
KINS 160	Sport and Exercise Psychology	3
Physical Education Concentration Options (24-26 Units)		
Select an option for the physical education concentration:		24 - 26
Physical Education Teacher Education (PETE) Option		
Sports Studies Option		
Total Units		55-57

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Physical Education Teacher Education (PETE) Option (26 units)

Code	Title	Units
KINS 130	Elementary Physical Education Curriculum and Content	3
KINS 131	Secondary Physical Education Curriculum	2
KINS 141	PRO ACT I - Dual Sports	3
KINS 142	Professional Activities II - Creative Movement and Dance	3
KINS 145	Pro Act III - Team Sports	3
KINS 146	PRO ACT IV Individual Sports	3
KINS 148	ProAct V - Nontraditional Games and Sports	3
KINS 149	Professional Activities of Health and Skill Related Fitness	3
KINS 177	Introduction to Adapted Physical Education	3
Total Units		26

Sports Studies Option (26 units)

Code	Title	Units
KINS 99	Exercise for Healthy Living	2
KINS 120	Strength and Conditioning	3
KINS 121	Peak Performance Through Psychological Skills	3
KINS 132	Planning, Designing and Managing a Fitness Center	3
KINS 156	Care Of Athletic Injuries	3
KINS 161	Theory of Sport and Fitness Management	3
KINS 165	Theory of Coaching	3
KINS 166	Ethics, Inclusion and Equity in Coaching	3
KINS 194D	Assigned Field Experience in Coaching [1]	1 - 2
Total Units		26

[1] Students must repeat this course for a total of 3 units.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (9 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]		0

Area C: Arts and Humanities (12 Units)	
C1 - Arts	3
C2 - Humanities	3
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (12 Units)	
Area D Course	3
Area D Course	3
Area D Course	3
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	45

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

Certificate in Personal Trainer Strength and Conditioning

Units required for Certificate: 28

Program Description

Kinesiology is an academic area of study concerned with the art and science of human movement.

Program Requirements

Code	Title	Units
FACS 113		3
KINS 120	Strength and Conditioning	3
KINS 132	Planning, Designing and Managing a Fitness Center	3
KINS 137	Sociology Of Sport	3
or KINS 160	Sport and Exercise Psychology	
KINS 144	Analysis of Weight Training & Muscular Fitness	2
KINS 151	Kinesiology	3
KINS 152	Physiology Of Exercise	3
KINS 153	Cardiovascular Testing and Exercise Prescription	3
KINS 156	Care Of Athletic Injuries	3
KINS 194A	Assigned Field Experience in Kinesiology	2
or KINS 195A	Directed Field Experience in Kinesiology	
Total Units		28

Credential in Adapted Physical Education Specialist

Units required for Credential: 21

Program Description

The Credential in Adapted Physical Education Specialist is intended that the courses in this specialty be taken in addition to or concurrent with the courses required for the Single Subject Teaching Credential in Physical Education.

Prerequisite Requirements

For students who are not Physical Education Teaching Concentration Majors

Code	Title	Units
BIO 22	Introductory Human Anatomy	4
HLSC 136		2
KINS 130	Elementary Physical Education Curriculum and Content	3
or KINS 172	Movement Education	
KINS 151	Kinesiology	3
KINS 151D	Applied Kinesiology and Biomechanics	3
KINS 158	Motor Learning and Control	3

Program Requirements

Code	Title	Units
Required Courses (22 Units)		
EDSP 230	Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges	3
EDSP 230B	Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges Lab	1

KINS 171	Adapted Physical Education: Basic Skill/Fitness Activities and Assessment	3
KINS 176	Perceptual Motor Development	3
KINS 177	Introduction to Adapted Physical Education	3
KINS 179	Adapted Physical Education: Program Planning	3
KINS 194E	Assigned Internship in Adapted Physical Education	3
RPTA 118	Recreation Therapy Facilitation Techniques	3
Total Units		22

Minor in Coaching

Units required for Minor: 19-20

Program Description

Kinesiology is an academic area of study concerned with the art and science of human movement.

Program Requirements

Code	Title	Units
KINS 150	Exercise and Sport Physiology	3
KINS 156	Care Of Athletic Injuries	3
Select one of the following:		3
KINS 110	Women and Sport	
KINS 137	Sociology Of Sport	
KINS 160	Sport and Exercise Psychology	
ATIC Coaching Series Courses		4
KINS Analysis Series Courses		2 - 3
Select 4 units from the following:		4
KINS 156A	Emergency Response	
KINS 194D	Assigned Field Experience in Coaching	
Total Units		19-20

Note: Substitutions can be made with permission of Department Chair.

Minor in Supplementary Authorization in Physical Education

Units required for Minor: 18

Program Description

This minor will fulfill the California Commission on Teacher Credentialing requirements for a supplementary authorization to teach Introductory Physical Education, K-9.

Program Requirements

Code	Title	Units
KINS 138	Sport Pedagogy	3
KINS 142	Professional Activities II - Creative Movement and Dance	3
KINS 172	Movement Education	3
Select one of the following:		3
KINS 145	Pro Act III - Team Sports	
KINS 150	Exercise and Sport Physiology	
KINS 176	Perceptual Motor Development	
KINS 177	Introduction to Adapted Physical Education	
Select two of the following:		5 - 6
KINS 141	PRO ACT I - Dual Sports	
KINS 144	Analysis of Weight Training & Muscular Fitness	
KINS 146	PRO ACT IV Individual Sports	
KINS 148	ProAct V - Nontraditional Games and Sports	
KINS 149	Professional Activities of Health and Skill Related Fitness	
Select one of the following:		2 - 3
KINS 131	Secondary Physical Education Curriculum	
KINS 134	History and Philosophy of Physical Education and Sport	
KINS 135	Assessment Strategies in Physical Education	
KINS 137	Sociology Of Sport	
KINS 160	Sport and Exercise Psychology	
Total Units		19-21

MS in Kinesiology (Exercise Science)

Total units required for the MS: 30, including 19 units for concentrations (see below).

Program Description

The graduate program leading to the Master of Science degree in Kinesiology is designed to expand the students' knowledge and to augment their qualifications for leadership in their chosen profession.

The objectives of the program are to increase the students' breadth and depth of knowledge relative to the discipline of Kinesiology; to provide the opportunity for students to engage in scholarly activity that includes creative and analytical thinking, interpreting, evaluating and reporting published research, designing and conducting research; and to provide a focus of study that will enhance career commitment and allow for experiences that will lead to continued self-development and growth.

Admission Requirements

For students *with an undergraduate major* in Kinesiology, admission to the MS program as a classified graduate student requires:

- an overall GPA of 2.8 or 3.0 in the last 60 semester units; and
- upper division statistic course (e.g., EDS 140 or equivalent).

Students who have deficiencies in admission requirements which can be removed by specific additional preparation may be admitted to unclassified or conditionally classified graduate status for the purpose of removing deficiencies. Coursework taken to qualify for classified graduate status is in addition to and not counted toward the master's program. While completing admission deficiencies, students may, if they possess the necessary prerequisites, enroll also in degree coursework, but no more than 6 units as an unclassified student or 12 units as a conditionally classified student can be applied toward the MS degree. Students must remove all admission deficiencies before being considered for classified status.

Students with deficiencies in admission requirements are requested to submit additional documentation in support of their application. These materials may include:

- GRE or GMAT scores;
- a letter stating reasons for pursuing graduate study in Kinesiology;
- a copy of recent research paper and/or a creative project; and
- letters of recommendation that speak specifically to academic ability.

Students applying for admission to the Kinesiology graduate program who ***do not have a degree in Kinesiology***, are required to take a minimum of 20 specified units in Kinesiology. These students should see the graduate coordinator or a graduate advisor for details.

Admission Procedures

Applications are accepted as long as room for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center, Room 215 (916) 278-6470:

- an online application for admission;
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State*; and
- two letters of recommendation.

For more admissions information and application deadlines please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*).*

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant. Upon admission, the student will select a graduate advisor.

Note: An 11-unit core of courses is required of all students; seven units of required courses and four units that are earned through the completion of a thesis or project. The thesis or project is required of all candidates for the Master of Science in Kinesiology. The courses in the core are designed to focus on an advanced study of the knowledge which is of common interest and concern to all graduate students pursuing a degree in Kinesiology. Within the remaining 19 units, the student is focused in an area of special interest by selecting a concentration: Exercise Science or Movement Studies. Each concentration includes a set of required courses and a specified number of elective units.

Note: Six semester units of graduate work taken at other accredited institutions may be approved by the Graduate Coordinator or the student's graduate advisor. Prerequisite units, units taken for undergraduate majors/minors, and units taken to qualify for fully classified graduate status, will not be counted for graduate credit. Only rarely are undergraduate Kinesiology courses approved for graduate credit. A maximum of six elective units may be taken in upper division undergraduate courses with advisor approval. A maximum of four units of graduate Practicum or Directed Individual Study may be taken for degree credit with advisor approval.

Minimum Units and Grade Requirements for the Degree

Units required for the MS: 30, including 19 units for concentrations (see below).

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. The procedure may begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of 200-level courses with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

This application must be filed no later than the semester prior to enrolling in KINS 211. Advancement to Candidacy forms are available on the Office of Graduate Studies website. See the Department's graduate coordinator for more information about this process.

Program Requirements

Code	Title	Units
Required Courses (7 Units)		
KINS 209	Graduate Studies in Kinesiology	3
KINS 210	Research Methods in Kinesiology	3
KINS 211	Research Seminar	1
Culminating Requirement (4 Units)		
KINS 500	Culminating Experience [1]	4
Concentrations (19 Units)		
Select one of the following concentrations:		19
Exercise Science Concentration		
Movement Studies Concentration		
Movement Studies/Strength Condition Option		
Movement Studies/Sports Psychology Option		
Movement Studies/Sport Pedagogy Option		
Total Units		30

[1] The first time the student registers for KINS 500, he/she must also register for KINS 211. During this semester, the student develops his/her proposal with assistance from others in the seminar, the seminar professor and the student's committee. When the proposal is completed, formal written and oral presentations are made to the seminar with the student's committee in attendance. If the student does not complete the proposal and have it approved, he/she must enroll and attend KINS 211 another semester.

Exercise Science Concentration (19 units)

Code	Title	Units
KINS 250	Advanced Exercise Physiology Laboratory	3
KINS 252	Advanced Exercise Physiology	3
KINS 254	Advanced Biomechanics	3
KINS 259	Research in Exercise Physiology	3
Select 7 units of electives in consultation with an advisor		7
Total Units		19

MS in Kinesiology (Movement Studies)

Total units required for the MS: 30, including 19 units for concentrations (see below).

Program Description

The graduate program leading to the Master of Science degree in Kinesiology is designed to expand the students' knowledge and to augment their qualifications for leadership in their chosen profession.

The objectives of the program are to increase the students' breadth and depth of knowledge relative to the discipline of Kinesiology; to provide the opportunity for students to engage in scholarly activity that includes creative and analytical thinking, interpreting, evaluating and reporting published research, designing and conducting research; and to provide a focus of study that will enhance career commitment and allow for experiences that will lead to continued self-development and growth.

Admission Requirements

For students *with an undergraduate major* in Kinesiology, admission to the MS program as a classified graduate student requires:

- an overall GPA of 2.8 or 3.0 in the last 60 semester units; and
- upper division statistic course (e.g., EDS 140 or equivalent).

Students who have deficiencies in admission requirements which can be removed by specific additional preparation may be admitted to unclassified or conditionally classified graduate status for the purpose of removing deficiencies. Coursework taken to qualify for classified graduate status is in addition to and not counted toward the master's program. While completing admission deficiencies, students may, if they possess the necessary prerequisites, enroll also in degree coursework, but no more than 6 units as an unclassified student or 12 units as a conditionally classified student can be applied toward the MS degree. Students must remove all admission deficiencies before being considered for classified status.

Students with deficiencies in admission requirements are requested to submit additional documentation in support of their application. These materials may include:

- GRE or GMAT scores;
- a letter stating reasons for pursuing graduate study in Kinesiology;
- a copy of recent research paper and/or a creative project; and
- letters of recommendation that speak specifically to academic ability.

Students applying for admission to the Kinesiology graduate program who ***do not have a degree in Kinesiology***, are required to take a minimum of 20 specified units in Kinesiology. These students should see the graduate coordinator or a graduate advisor for details.

Admission Procedures

Applications are accepted as long as room for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center, Room 215 (916) 278-6470:

- an online application for admission;
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State*; and
- two letters of recommendation.

For more admissions information and application deadlines please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*).*

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant. Upon admission, the student will select a graduate advisor.

Note: An 11-unit core of courses is required of all students; seven units of required courses and four units that are earned through the completion of a thesis or project. The thesis or project is required of all candidates for the Master of Science in Kinesiology. The courses in the core are designed to focus on an advanced study of the knowledge which is of common interest and concern to all graduate students pursuing a degree in Kinesiology. Within the remaining 19 units, the student is focused in an area of special interest by selecting a concentration: Exercise Science or Movement Studies. Each concentration includes a set of required courses and a specified number of elective units.

Note: Six semester units of graduate work taken at other accredited institutions may be approved by the Graduate Coordinator or the student's graduate advisor. Prerequisite units, units taken for undergraduate majors/minors, and units taken to qualify for fully classified graduate status, will not be counted for graduate credit. Only rarely are undergraduate Kinesiology courses approved for graduate credit. A maximum of six elective units may be taken in upper division undergraduate courses with advisor approval. A maximum of four units of graduate Practicum or Directed Individual Study may be taken for degree credit with advisor approval.

Minimum Units and Grade Requirements for the Degree

Units required for the MS: 30, including 19 units for concentrations (see below).

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. The procedure may begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of 200-level courses with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

This application must be filed no later than the semester prior to enrolling in KINS 211. Advancement to Candidacy forms are available on the Office of Graduate Studies website. See the Department's graduate coordinator for more information about this process.

Program Requirements

Code	Title	Units
Required Courses (7 Units)		
KINS 209	Graduate Studies in Kinesiology	3

KINS 210	Research Methods in Kinesiology	3
KINS 211	Research Seminar	1
Culminating Requirement (4 Units)		
KINS 500	Culminating Experience [1]	4
Concentrations (19 Units)		
Select one of the following concentrations:		19
Exercise Science Concentration		
Movement Studies Concentration		
Movement Studies/Strength Condition Option		
Movement Studies/Sports Psychology Option		
Movement Studies/Sport Pedagogy Option		
Total Units		30

[1] The first time the student registers for KINS 500, he/she must also register for KINS 211. During this semester, the student develops his/her proposal with assistance from others in the seminar, the seminar professor and the student's committee. When the proposal is completed, formal written and oral presentations are made to the seminar with the student's committee in attendance. If the student does not complete the proposal and have it approved, he/she must enroll and attend KINS 211 another semester.

Movement Studies Concentration (19 units)

Code	Title	Units
Select three of the following:		9
KINS 203	Specificity of Conditioning	
KINS 236	Sport and Society	
KINS 258	Research in Motor Learning	
KINS 262	Psychological Aspects of Peak Performance	
KINS 270	Instructional Strategies for Physical Activity and Sport	
Select 10 units of electives in consultation with an advisor		10
Total Units		19

Movement Studies/Strength Condition Option (18 units)

Code	Title	Units
KINS 203	Specificity of Conditioning	3
KINS 295	Practicum	3
Select two of the following:		6
KINS 236	Sport and Society	
KINS 258	Research in Motor Learning	
KINS 262	Psychological Aspects of Peak Performance	
KINS 270	Instructional Strategies for Physical Activity and Sport	
Select 6 units of electives in consultation with advisor		6
Total Units		18

Movement Studies/Sports Psychology Option (16 units)

Code	Title	Units
KINS 260	Psychology Of Sport	3
KINS 262	Psychological Aspects of Peak Performance	3
KINS 295	Practicum	1
Select two of the following:		6
KINS 203	Specificity of Conditioning	
KINS 236	Sport and Society	
KINS 258	Research in Motor Learning	
KINS 270	Instructional Strategies for Physical Activity and Sport	
Select 3 units of electives in consultation with advisor		3
Total Units		16

Movement Studies/Sport Pedagogy Option (19 units)

Code	Title	Units
KINS 270	Instructional Strategies for Physical Activity and Sport	3
KINS 276	Teaching and Coaching Effectiveness	3
KINS 295	Practicum	1
Select two of the following:		6
KINS 203	Specificity of Conditioning	
KINS 236	Sport and Society	
KINS 258	Research in Motor Learning	
KINS 262	Psychological Aspects of Peak Performance	
Select 6 units of electives in consultation with advisor		6
Total Units		19

Note: Student teaching, extension courses, undergraduate fieldwork, and 300-numbered methods or workshop courses may not be applied to the MS program requirements.

Please see the Department Web site for the most current program requirements.

Single Subject Credential in Physical Education K-12

Program Description

Blended Credential Option students must formally apply to the Teacher Preparation Program for acceptance into the credential option. A separate application and requirements are required for admission to the student teaching phase. Consult a Physical Education Concentration Advisor for details.

Program Requirements

Code	Title	Units
EDTE 471A		
EDTE 471B		
KINS 198A	Seminar in Physical Education - Elementary	2
KINS 198B	Seminar in Physical Education - Secondary	1
Total Units		3

Note: The following must be attained before student teaching can begin:

- Standard First Aid Certification;
- Current CPR Certification; and
- Receive **passing scores** on the California Basic Educational Skills Test (CBEST).

Subject Matter Program Athletic Training

Program Description

Athletic Training students interested in teaching must meet the Commission on Teacher Credentialing standards prior to entrance into a credential program. Courses to meet standards can be taken concurrently with the Athletic Training courses.

Program Requirements

Note: The program is currently under review by the Commission on Teacher Credentialing and students are strongly encouraged to consult the Program Director for appropriate coursework.

Nursing

College of Health and Human Services

School of Nursing Mission and Vision

The School of Nursing (SON) prepares nurses to lead diverse individuals, families, and communities in achieving optimal health through nursing science, collaborative practice, advocacy, and service.

The School of Nursing transforms health care through innovative nursing education, community partnerships, and policy engagement. We believe that the SON serves its students and the society at large by creating an environment in which faculty and students pursue the knowledge of nursing practice guided by the following core values:

- caring;
- integrity;
- advocacy;
- collaboration;
- inclusion;
- equity; and
- leadership.

Degree Programs

BS in Nursing (Pre-Licensure) (p. 701)

MS in Nursing (p. 704)

RN-BSN and ADN-BSN Collaborative Track (p. 705)

School Nurse Credential (p. 707)

Special Teaching Authorization in Health (STAH) (p. 708)

Programs Descriptions

The baccalaureate program consists of a four-year curriculum of lower and upper division coursework. There are two (2) years of General Education including prerequisites and two (2) years of clinical nursing. The time to complete the prerequisites may increase the time to complete the degree. The Nursing program content prepares competent professional practitioners of nursing who will help meet the changing health care needs of society.

The School of Nursing offers two pathways for students who start their nursing education in a non-baccalaureate program to earn a bachelor's degree (BSN). These pathways are: an RN-BSN Traditional 15-Week Semester track and an Associates Degree in Nursing (ADN) to BSN Collaborative track. Both tracks are designed to be completed in 12-15 months if attending full-time; the RN-BSN track has a part-time attendance option. Scheduling of program offerings and hybrid (mostly online) classes will provide maximum flexibility and the opportunity for self-directed study.

The Master of Science in Nursing is designed to prepare registered nurses with baccalaureate degrees for roles in nursing education, community, adult clinical roles, and credentialed school nurses. The curriculum emphasizes the systematic study of professional nursing practice and preparation for leadership roles. The program is designed for nurses currently employed in hospitals, long term care facilities, health agencies and educational institutions who require graduate preparations to qualify for positions of greater responsibility and complexity. Scheduling of program offerings and hybrid (mostly online) classes will provide maximum flexibility and the opportunity for self-directed study.

Accreditation

California State University, Sacramento is fully accredited by the Western Association of Schools and Colleges (WASC).

The baccalaureate degree in nursing program and master's degree in nursing program at California State University, Sacramento are accredited by the Commission on Collegiate Nursing Education (http://www.ccneaccreditation.org).

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

- The specific purposes of the baccalaureate program are to: 1) provide a program of study which includes the developing theory and practices of nursing leading to a Bachelor of Science degree with a major in Nursing, 2) prepare a generalist in nursing practice who is able to utilize the nursing process to meet the health care needs of the community, and 3) provide the student with a base for graduate study.
- In the baccalaureate program, students are provided with a variety of learning experiences both on and off campus. Examples of clinical facilities used in the Sacramento and surrounding areas include acute care hospitals, skilled nursing and extended care facilities, outpatient clinics, schools, and community health and social service agencies.
- Admission to ADN to BSN Collaborative track is restricted to students currently in good standing and actively enrolled in one of the community college nursing programs; American River, Sacramento

City, Sierra College. Pre-requisite courses must be met prior to admission.

- Students are encouraged to participate in the California Nursing Students' Association (CNSA) as they pursue their academic studies. In their fourth semester of clinical nursing coursework, students are eligible for membership in Zeta Eta, the local chapter of Sigma Theta Tau, International Honor Society for Nursing.
- The Sacramento State program in professional nursing is approved by the California State Board of Registered Nursing. The baccalaureate degree in nursing program and the master's degree in nursing program at California State University, Sacramento are accredited by the Commission on Collegiate Nursing Education (http://www.ccneaccreditation.org).
- The student satisfactorily completing the baccalaureate program is awarded a Bachelor of Science degree in Nursing and is eligible to apply for licensure by the California Board of Registered Nursing. Graduates are also eligible to apply for a Public Health Certificate. For the RN-BSN and the ADN to BSN Collaborative students, there is a clinical elective course which, along with community health theory, allows the student to apply to the California Board of Registered Nursing for a Public Health Nursing certificate.
- Graduation from programs leading to licensure, credentialing, or certification eligibility does not guarantee that students will obtain a license, credential, or certification. Licensure, credentialing, or certification requirements are set by agencies that are not controlled by, or affiliated with, the CSU and requirements can change at any time. For example, licensure, credentialing, or certification requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure, credentialing, or certification requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure, credentialing, or certification requirements. Information concerning licensure, credentialing, or certification requirements are available from Teri Lyn Fretz, Office Manager, at 916/278-6714 or fretz@csus.edu. Mailing address: 6000 J Street, Sacramento, CA 95819-6096. Physical address: 7667 Folsom Boulevard, Sacramento, CA 95826.

Career Possibilities

Registered Nurse (RN, BSN or RN, MSN): Hospital, e.g., Medical, Surgical, Emergency Room, Operating Room, Pediatrics, Obstetrics, Mental Health, Critical Care, Oncology, Rehabilitation · Community Health · Home Health · Extended Care · Physician's Office · Clinics and Industry · Advanced Practice (MS) roles: Educator · Nurse Administrator · School Nurse · Advanced Clinical Role

Contact Information

Tanya K. Altmann, PhD, RN, School of Nursing Chair
Teri Lyn Fretz, ASCII/Office Manager
Folsom Hall
(916) 278-6714
School of Nursing Website (http://www.csus.edu/hhs/nrs/)

Faculty

ALTMANN, TANYA

BAKER, DIAN

BLACKBURN, SAMANTHA

BRADY, DEBRA

BURMEISTER, GAIL

CAMARENA, CHRISTIE

DANG, MICHELLE

DONAHUE, EDEN

FERGUSON, ROXANNE

FIELDS, BRONWYN

FINN-ROMERO, DEBORAH

KEEGAN, RICHARD

KELLY, KATHERINE

LANDERS, STEPHANIE

MIKAL-FLYNN, JOYCE

NOUREDDINE, NASSRINE

PARSH, BRIDGET

SAMPSON, JAN

SHARPP, TARA

SHINER, KARA

SMART, CHRISTIE

SOLORIO, CHRISTY

STOLTZ, ANN

SUTHERLAND, SUZANNE

WALL PARILO, DENISE

NURS 10. Health Care: Issues and Delivery Systems. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Explores the relationships between social, political and economic systems, and the health care and delivery systems currently operational in the U.S. today. Provides a format to debate current biomedical issues and explores crosscultural health practices. Lecture three hours.

NURS 14. Pharmacology. 2 Units
Prerequisite(s): Entry level physiology course, such as BIO 25 or BIO 26
Term Typically Offered: Fall, Spring

Basic principles of pharmacology with a focus on pharmacokinetics, pharmacodynamics and related therapeutic implications for major drug categories. May be taken by pre-nursing or non-nursing students. Lecture two hours.

NURS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Also provides students with an opportunity to interact with fellow students and the seminar leader and to build a community of academic and personal support.

NURS 53. Paramedic Skills Part 1. 2 Units
Prerequisite(s): Admission to the Paramedic program
Corequisite(s): NURS 51
Term Typically Offered: Fall, Spring

Part 1 of foundational ALS skills content for pre-hospital care in the Emergency Medical System (EMS). Participants apply theoretical knowledge of Advanced Life Support in skills lab and simulated patient care experiences. Students will practice assessment and intervention of psychomotor skills for Advanced Life Support (ALS), Advanced Cardiac Life Support (ACLS), Pediatric Advanced Cardiac Life Support (PALS) and International Trauma Life Support (ITLS).

NURS 54. Paramedic Skills Part 2. 3 Units
Prerequisite(s): Admission to the Paramedic program, NURS 51 & NURS 53
Corequisite(s): NURS 52
Term Typically Offered: Fall, Spring

Part 2 of foundational ALS skills content for pre-hospital care in the Emergency Medical System (EMS). Participants apply theoretical knowledge of Advanced Life Support in skills lab and simulated patient care experiences. This is the skills section of NURS 52. Students will practice assessment and intervention of psychomotor skills for Advanced Life Support (ALS), Advanced Cardiac Life Support (ACLS), Pediatric Advanced Cardiac Life Support (PALS) and International Trauma Life Support (ITLS).

NURS 111. Introduction to Professional Nursing. 3 Units
Prerequisite(s): Admission to Nursing program or instructor permission
Term Typically Offered: Fall, Spring

Provides a conceptual base for the practice of professional nursing. The changing and expanding roles of the professional nurse in the health care delivery system are explored, with an emphasis on professional behavior, ethics, evidence-based practice and informatics. Lecture three hours.
Note: may be repeated for credit

NURS 112. Nursing Care Of Adults. 5 Units
Prerequisite(s): Admission to the Nursing Program
Corequisite(s): NURS 111, NURS 113
Term Typically Offered: Fall, Spring

Introduction and application of nursing concepts in meeting health needs of adults. Emphasis is placed on health promotion and disease management across the adult life span. Lecture three hours; laboratory six hours
Note: May be repeated for credit

NURS 113. Professional Nursing Communication, Assessment and Skills. 4 Units
Prerequisite(s): Admission to nursing program
Corequisite(s): NURS 111 and NURS 112
Term Typically Offered: Fall, Spring

Apply nursing practice concepts in assessment, skills, and professional communication in the context of laboratory scenarios and field experiences across the lifespan. Laboratory twelve hours.

NURS 119. Mental Health Nursing for the LVN 30-Unit Option. 4 Units
Prerequisite(s): Microbiology with a lab, Physiology with a lab, and California licensure as a Vocational Nurse.
Corequisite(s): Nurs 123.
Term Typically Offered: Fall, Spring

Theoretical basis for the nursing care of individuals who require nursing intervention to achieve and maintain mental health through adaptive processes. The course includes a supervised practicum which incorporates therapeutic modalities. A variety of psychodynamic theories related to anxiety, interpersonal relationships, crisis intervention, and group process are discussed.

NURS 120. Nursing Application of Research and Critical Analysis. 3 Units
Prerequisite(s): NURS 111, NURS 112, NURS 113 or instructor permission. GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Evaluation and application of research to nursing practice. Emphasis is placed on application of evidence to improve quality and safety in healthcare and advance nursing practice. Develop an understanding of the humanities and diverse cultures through the lens of nursing practice. Application of a critical framework of sociocultural, historical, and economic perspectives to analyze scholarly inquiry of health and healthcare.

NURS 123. Nursing Families in Complex Illness. 6 Units
Prerequisite(s): NURS 111, NURS 112 and NURS 113; or instructor permission.
Term Typically Offered: Fall, Spring

Provides students with the opportunity to learn and apply nursing concepts through the care of individuals and families experiencing complex illness across the adult lifespan. The focus is on skill development and the synthesis of data from multiple sources to formulate nursing interventions. Lecture three hours; laboratory six hours.
Note: May be repeated for credit

NURS 129. Mental Health Nursing. 5 Units
Prerequisite(s): NURS 111, NURS 112 and NURS 113; or instructor permission
Term Typically Offered: Fall, Spring

Provides an overview of multidimensional factors, perspectives, and approaches associated with mental health across the lifespan. Mental health concepts and interventions are applied across multiple settings. Lecture three hours; laboratory six hours.
Note: May be repeated for credit

NURS 133. Leadership and Management for the LVN to RN. 2 Units
Prerequisite(s): Microbiology with a lab; Physiology with a lab; NURS 119 and NURS 123
Corequisite(s): NURS 137 and NURS 138
Term Typically Offered: Fall, Spring

This course is designed to present leadership and management skills for the Licensed Vocational Nurse transitioning to the Registered Nurse role. The principle and processes of administration, management, and supervision will be discussed within an organizational framework. Lecture two hours.

NURS 136. Nursing Laboratory for the Childbearing Family. 1 Unit
Prerequisite(s): NURS 120, NURS 123 and NURS 129, or instructor permission
Corequisite(s): NURS 137
Term Typically Offered: Fall, Spring

Application of skills and assessment in the care of the childbearing family and women experiencing reproductive health changes across the lifespan.
Credit/No Credit

NURS 137. Nursing the Childbearing Family. 5 Units
Prerequisite(s): NURS 120, NURS 123 and NURS 129 or instructor permission.
Corequisite(s): NURS 136.
Term Typically Offered: Fall, Spring

Application of nursing concepts in the care of the childbearing family and women experiencing reproductive health changes across the lifespan. Lecture three hours; laboratory six hours.
Note: May be repeated for credit

NURS 138. Nursing the Childrearing Family. 5 Units
Prerequisite(s): NURS 120, NURS 123, NURS 129, or instructor permission
Corequisite(s): NURS 139
Term Typically Offered: Fall, Spring

Introduction and application of nursing concepts in meeting health needs of the child from birth through adolescence. Emphasis is placed on health promotion and disease management within the context of the family and applied across multiple settings. Lecture three hours; laboratory six hours.
Note: May be repeated for credit

NURS 139. Nursing Laboratory for the Childrearing Family. 1 Unit
Prerequisite(s): NURS 120, NURS 123, NURS 129, or instructor permission
Corequisite(s): NURS 138
Term Typically Offered: Fall, Spring

Acquisition of knowledge and practice using tools and techniques for assessing the child and the family in a variety of settings. Laboratory three hours.
Note: May be repeated for credit

Credit/No Credit

NURS 143. Leadership and Management in Nursing Practice. 3 Units
Prerequisite(s): NURS 136, NURS 137, NURS 138, and NURS 139, or instructor permission.
Term Typically Offered: Fall, Spring

Integration of leadership and management principles to promote health across the lifespan and care settings. Application of leadership and management principles in the examination of organizational structures, processes, and approaches to quality and safety concepts in health care systems and practice environments. Emphasis will be placed on career development and transition to professional practice.
Note: May be repeated for credit. Lecture three hours.

NURS 144. Community Health Nursing. 5 Units
Prerequisite(s): NURS 136, NURS 137, NURS 138, and NURS 139, or instructor permission.
Term Typically Offered: Fall, Spring

Contemporary role of the community health nurse is presented within a public health framework, emphasizing the concept of community as client. Presents nursing interventions related to groups and aggregates identified as high risk for the development of health problems. Clinical experience is provided across community settings. Lecture and clinical hours.
Note: May be repeated for credit

NURS 145. Clinical Leadership and Professional Role Development. 6 Units
Prerequisite(s): NURS 136, NURS 137, NURS 138, NURS 139 or instructor permission.
Corequisite(s): NURS 144.
Term Typically Offered: Fall, Spring

The purpose of this culminating senior practicum is to facilitate the transition of the nursing student into the role of a professional BSN graduate nurse. The course will integrate the theoretical and clinical nursing concepts acquired throughout the curriculum into a precepted senior practicum. Students will apply principles of clinical nursing, nursing management and nursing leadership in a selected clinical setting.
Credit/No Credit

NURS 160. Human Sexuality. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Designed to explore the physiological, sociological, and psychological components of human sexuality in a sufficiently detailed manner to dispel the myths and confusion enveloping this sensitive subject. Students will be able to integrate these components in a meaningful pattern into their own lives, be better able to understand and accept their own sexual needs and behavior, and be more accepting and understanding of persons whose sexual attitudes and behavior might from their own.

NURS 165. Hospice and Palliative Nursing Care. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer

Evaluation of the role of the nurse in providing family-centered care throughout the death and dying process within a historical and cultural context. Exploration of differences in organizational models to end-of-life care, including hospice and palliative care. Integration of nursing care into unique cultural values and beliefs. Examination of significant aspects of cultural and social differences in death and dying.

NURS 167. Women's Health. 3 Units
Term Typically Offered: Fall, Spring

Designed for people seeking knowledge about women's health, women's health risks, and the delivery of traditional and non-traditional medical interventions for the maintenance of health and management of illness. Covers the physiological and psychological components of women's health. The leading acute and chronic illnesses which affect women are introduced. Discussions include: means of sustaining a wellness lifestyle; identification, management and consultation for acute and chronic illness; normal physiological life changes and adaptations to aging; mind/body connection in the control of health and illness; pharmacology and drug therapy for women; health management for infants and children; access and control of care for women in traditional and non-traditional health settings; and research in women's health. Lecture-discussion three hours.

NURS 168. The Brain and Gender-Related Differences. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Gender-related differences which are mediated by the brain are examined from the theoretical framework of evolution. The place of molecular genetics, hormone physiology, neural function, biomedical research, human development, personality theory and research, and crosscultural research are studied in an attempt to understand the processes that affect sex differences. Gender-related differences in normal and abnormal behavior resulting from chronic and acute disease, and pathological states, will be introduced. The student should acquire the fundamentals of a scientific understanding of gender-related differences between humans, and an appreciation of the unique role the brain plays in the mediation of these differences.

NURS 170. Foundations for Evidence-Based Nursing Practice. 3 Units
Prerequisite(s): Acceptance into the RN to BSN Program or instructor permission.
Term Typically Offered: Fall, Spring

This course provides an overview of nursing research and application to practice. Students will identify components of evidence-based practice and develop skills in critiquing research and in professional writing.

NURS 171. Transitional Concepts: The Baccalaureate Nurse. 6 Units
Prerequisite(s): NURS 170, may be taken concurrently.
Term Typically Offered: Fall, Spring

This course expands students' knowledge of theories, concepts, and social issues which have implications for nursing practice. Assignments and experiences are designed to transition the RN to the baccalaureate level of proficiency.

NURS 171A. Transitional Concepts: The Baccalaureate Nurse Role. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently
This course expands students' knowledge of theories, concepts, and social issues which have implications for the role of the nurse in any professional setting. Assignments and experiences are designed to transition the RN to the baccalaureate level of proficiency.

NURS 171B. Transitional Concepts: The Client Lifespan. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently
This course expands students' knowledge of theories, concepts, and social issues which have implications for health across the lifespan. Assignments and experiences are designed to transition the RN to the baccalaureate level of proficiency.

NURS 173. Theoretical Foundations for Leadership and Management. 6 Units
Prerequisite(s): NURS 170, may be taken concurrently.
Term Typically Offered: Fall, Spring

This course provides the theoretical foundations for leadership and management across multiple settings. Theories related to the principles and processes of leadership and management will be applied to select practice experiences.

NURS 173A. Theoretical Foundations for Leadership. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently
This course provides the theoretical foundations for leadership across multiple settings. Theories related to the principles and processes of leadership will be applied to select practice experiences.

NURS 173B. Theoretical Foundations for Management. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently
This course provides the theoretical foundations for management across multiple settings. Theories related to the principles and processes of management will be applied to select practice experiences.

NURS 174. Community Health Nursing: Concepts and Practice. 4 Units
Prerequisite(s): NURS 170, may be taken concurrently.
Term Typically Offered: Fall, Spring

This course presents the role of the community health nurse within a public health framework and examines public health systems, policies, and socioecological factors that shape the health of individuals, groups, and communities. Students will be introduced to principles of population health, epidemiology, disease prevention, and health promotion, to plan community health nursing interventions.

NURS 174C. Community Health Nursing: Clinical Elective. 2 Units
Prerequisite(s): NURS 170, NURS 174, both may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

In this course students will integrate and apply knowledge of population-based nursing and evaluate the role of the community health nurse in various systems. Students will provide care to individuals, families, or communities within a public health framework. This course meets the California BRN clinical requirements for the Public Health Nurse Certificate.
Note: NURS 174C is an elective course that is only required for students wishing to apply for the California Board of Registered Nursing Public Health Nurse Certificate; students not planning to apply for a Public Health Nurse Certificate must petition for an exemption from this clinical course; students who are granted exemption for NURS 174C will only complete 44 units.

NURS 178. Culminating Project. 3 Units
Prerequisite(s): Completion of 19 units in the program or instructor permission.
Term Typically Offered: Fall, Spring

Students will apply leadership and management principles within a community to determine a defined need or issue, identify goals to meet or solve the issue, and complete the culminating project based on previous course work.

NURS 179. Professional Communication and Reasoning Development. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently; and either department permission or GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

This hybrid course is designed to expand communication and leadership skills among RN to BSN students in their professional practice. Students will develop an understanding of the humanities and diverse cultures through the lens of nursing practice. Specifically, students will reflect on how culture and experience determines the human condition which is reflected in their animating ideas and values towards health and healthcare.

NURS 194. Work Study in Nursing. 1 - 12 Units
Prerequisite(s): NURS 120, NURS 123 and NURS129; School of Nursing faculty recommendation; Instructor permission; Minimum 2.5 GPA
Corequisite(s): Enrollment in undergraduate nursing program
Term Typically Offered: Fall, Spring

Nursing students participate in clinical nursing experiences that reflect the realities of the healthcare enviroment and have oppurtunity to master learned skills.
Note: May be repeated for credit

Credit/No Credit

NURS 195. Field Study. 1 - 6 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Guided study and experience in a specified nursing area.
Credit/No Credit

NURS 199. Special Problems. 2 Units
Term Typically Offered: Fall, Spring

Individual projects and directed reading for students who are competent to assume independent work. Admission to this course requires approval of faculty member under whom the independent work is to be conducted.
Credit/No Credit

NURS 209. Advanced Role Development in Nursing. 3 Units
Prerequisite(s): Admission to Graduate Program.
Term Typically Offered: Fall, Spring

Students will explore emerging issues in healthcare and consider how these issues shape their practice. Through examination of current issues and challenges confronting the nursing profession, analysis of the literature, examination of personal values, rights, and obligations, and the application of ethical decision-making processes, students' ability to engage in ethical discussions will be enhanced, as will their ability to provide professional leadership.
Note: Satisfies the GWAR requirement.

NURS 210. Research as the Foundation for Advanced Nursing. 3 Units
Prerequisite(s): Admission to the graduate program for nursing
Term Typically Offered: Fall, Spring

Participants will explore nursing research as the foundation for clinical and organizational decision making. Content will include understanding key elements of evidence-based practice, developing skills to access data bases in nursing and healthcare, evaluation of evidence in nursing including published nursing research, problem identification within the practice setting, and incorporation of evidence in initiating change and improving clinical practice.

NURS 213. Seminar in Organizational and Systems Leadership. 3 Units
Prerequisite(s): NURS 209 and NURS 210, and 21 units of graduate coursework.
Term Typically Offered: Fall, Spring

This course requires that students operationalize knowledge, skills, and dispositions acquired in previous courses. Students will identify contemporary healthcare issues and apply graduate core competencies to guide nursing praxis in the planning, implementation and evaluation of quality healthcare for individuals, families, groups and communities.

NURS 213C. Seminar in Specialized Nursing Processes: School Nursing I. 4 Units
Prerequisite(s): Admission to School Nurse Credential Program.
Term Typically Offered: Fall, Spring

Provision and application of concepts needed for nursing practice in the schools. Focuses on the three major competencies of school nursing practice: providing health and wellness services, providing direct client care services for school age children (pre-k through age 22), and professional management of school nursing services. Emphasis is on the foundations of school nursing practice, legal and ethical issues, special education services, and management of episodic illness and chronic health conditions.

NURS 213D. Seminar in Specialized Nursing Processes: School Nursing II. 4 Units
Prerequisite(s): NURS 213C.
Term Typically Offered: Fall, Spring

Provision and application of concepts needed for nursing practice in the schools. Focuses on the three major competencies of school nursing practice: providing health and wellness services, direct client care services for school age children (pre-k through age 22), and health service program coordination and management. Emphasis is on ethical issues and federal laws addressing education for students with disabilities, health promotion programs, issues of adolescent health, and behavior assessment and management including considerations for students receiving special education services.

NURS 214. Educational Program Development in Nursing. 3 Units
Prerequisite(s): NURS 209 and NURS 210 or instructor's permission
Term Typically Offered: Fall, Spring

Introduction to curriculum development and instructional design concepts in preparation for the role of educator in an educational institution or health care setting. Emphasis will be on instructional design, instructional strategies, and measurement of learner outcomes. Lecture three hours.
Note: FOCUS alternates between K-12 and higher education.

NURS 214C. Educational Program Development in Nursing II. 3 Units
Prerequisite(s): NURS 214B.
Corequisite(s): NURS 294C.
Term Typically Offered: Fall, Spring

Introduction to curriculum development and instructional design concepts in preparation for the role of educator in an educational institution or health care setting. Continues emphasis on instructional design, related to curriculum development and implementation, and to program evaluation. Lecture three hours.
Note: FOCUS alternates between K-12 and higher education.

NURS 215. Community Health Services and Policy. 3 Units
Prerequisite(s): NURS 209 and NURS 210, or instructor's permission
Term Typically Offered: Fall, Spring

Examines issues of health policy, financing, and the organization and delivery of health services at the local, national, and global levels. Health promotion will be defined and the influence of community on the individual, group, and family's health will be explored. Epidemiological data bases will be identified. These data bases will be critiqued and used to develop a health promotion program.

NURS 216. Vision and Scoliosis Screening. 1 Unit
Term Typically Offered: Fall, Spring

Theory and practice of detecting idiopathic scoliosis, and visual disorders resulting from inadequate refraction, ocular mal-alignment, and color deficiency in the school setting. The pathophysiology of said conditions will be presented, the nursing role delineated, and opportunities for paired screening practice provided.

NURS 230. Advanced Concepts in Pathophysiology. 3 Units
Term Typically Offered: Fall, Spring

Seminar designed to promote the understanding and application of fundamental disease processes and physiological principles in cross-clinical settings for the purpose of improving nursing assessments and patient care management. Lecture three hours.

NURS 231. Pharmacology for Advanced Practice. 3 Units
Term Typically Offered: Fall, Spring

Conceptual and systematic study of pharmacodynamics, pharmacokinetics, pharmacoeconomics and therapeutic implications for healthcare practitioners. Efficient use of traditional and web based pharmaceutical resources is encouraged. Designed to meet Board of Registered Nursing requirements for prescriptive privileges. Requires familiarity with disease process. Lecture three hours.

NURS 232. Advanced Physical Assessment Across the Lifespan. 3 Units
Prerequisite(s): NURS 209 and NURS 210.
Term Typically Offered: Fall, Spring

Advanced concepts and skills in health and physical assessment are essential to the clinical decision making and caring process for the nurse in advanced practice and leadership roles. The emphasis is on eliciting an accurate and thorough history considering the client's multiple dimensions, development of advanced physical examination skills and the development of documentation skills to provide a database for continuous improvement of nursing practice.
Note: Availability of a stethoscope is required. Individual practice outside of class is required.

NURS 232A. Advanced Physical Assessment: Infant, Child, Adolescent. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Seminar designed to present techniques related to the physical assessment, in the school or home setting, of the child, age birth through 18 years. Emphasis is on the common morbidities and mortalities of these age groups including interrelationship of the physical, emotional and socioeconomic causes of health problems and illnesses. Availability of an otoscope and stethoscope required. Individual practice required outside of class. Lecture three hours.

NURS 293. Practicum in Organizational and Systems Leadership. 3 Units
Prerequisite(s): NURS 209, NURS 210, NURS 214, NURS 230, NURS 231, NURS 232, and instructor permission.
Corequisite(s): NURS 213.
Term Typically Offered: Fall, Spring

This course provides supervised field experience to provide the student with an opportunity to apply theoretical concepts from NURS 213 in a clinical practice setting focusing on the care of adult clients. The emphasis of this experience will be to application of graduate core competencies to guide leadership in nursing praxis in the planning, implementation and evaluation of quality healthcare for individuals, families, and groups.
Credit/No Credit

NURS 293D. Practicum in Specialized Nursing Processes: School Nursing. 4 Units
Prerequisite(s): NURS 213C.
Corequisite(s): NURS 213D.
Term Typically Offered: Fall, Spring

Application of a planned sequence of supervised clinical experiences in one or more California public school districts offering nursing services to infants, children and adolescents for the purpose of developing a clinical leadership role in school nursing. Focuses on the three major competencies of school nursing practice: providing health and wellness services, providing direct client care services for school age-children (pre-k through age 22, including students with special health care needs), and professional management of school nursing services.
Credit/No Credit

NURS 294. Practicum in Educational Program Development in Nursing. 3 Units
Prerequisite(s): NURS 214, may be taken concurrently.
Term Typically Offered: Fall, Spring

Opportunity for analysis and synthesis of concepts of management and leadership in an educational setting while practicing the role of a nursing educator.
Credit/No Credit

NURS 295. Field Study. 1 - 6 Units
Term Typically Offered: Fall, Spring

Experiences in an off-campus facility are provided for the continued development of clinical or functional role skills. Each student spends 45 hours per unit. Field study is not designed to be used in lieu of regularly scheduled practicums. Enrollment in NURS 295 requires permission of a faculty member who will serve as sponsor and coordinator of the experience.
Credit/No Credit

NURS 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual research, study, and directed reading in an area not directly covered in the Division's core courses, role preparations or electives. Students pursue a particular course of study on a one-to-one basis with a faculty member. Educational objectives must be specified in advance.
Credit/No Credit

NURS 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy for the Master's degree and must be in the final semester of the program.
Term Typically Offered: Fall, Spring

The Culminating Experience is in the form of a comprehensive examination. The comprehensive examination is an original scholarly paper that reflects an in-depth problem-solving proposal or a business proposal. Students that wish to do a thesis or project as the culminating experience must petition the Division of Nursing Graduate Committee and will be approved on an individual basis.

BS in Nursing (Pre-Licensure)

Units required for Pre-Clinical: 29
Units required for Major: 61
Total units required for BS: 120

Program Description

The School of Nursing prepares nurses to lead diverse individuals, families, and communities in achieving optimal health through nursing science, collaborative practice, advocacy, and service.

Admission Requirements

Admission to the Sacramento State baccalaureate Nursing program is a two-step process:

1. admission to the University and
2. admission to the Clinical Nursing program

Prospective first-time freshmen and transfer students, who will not complete certain Clinical Nursing prerequisites by the time they enroll, may apply for University admission at any time up to the regular application deadline. They will be considered 'expressed interest' until they enter the Clinical Nursing program.

Up to 80 traditional pre-licensure students are admitted to the *clinical* portion of the baccalaureate Nursing program each semester. A competitive selection process has been established since applications exceed program space in the traditional pre-licensure program. Newly admitted students are selected from among candidates who meet the prerequisite requirements and follow the supplemental application procedures described below. Continuing Sacramento State, transfer students, and second baccalaureate degree applicants are given equal consideration in the selection process for available new seats.

The clinical portion of the nursing program is open only to those who can satisfy the California residence requirements. Students who qualify for Deferred Action for Childhood Arrivals (DACA) status, AB 540 status, or military fee waiver are eligible.

Admission Advising

Group advising meetings are scheduled throughout the academic year. Times of these meetings and program publications are available at on the School of Nursing website (http://www.csus.edu/hhs/nrs/).

Application Procedures - Nursing Pre-Licensure BSN Program

Clinical Nursing Selection Criteria

- The GPA of the pre-clinical and corequisite courses completed at the time of application, the results of the ATI Test of Essential Academic Skills (TEAS), and the optional criteria, if selected by the student, will be used to determine program admission.
- Applicants who satisfy the minimum admission point total are selected from a rank ordering or total points assigned to different GPA and TEAS result levels as well as points assigned to the optional criteria.

Prerequisites Requirements - Nursing Pre-Licensure BSN

The following prerequisites are to be met by time of enrollment unless otherwise stated.

- Completion of six of the eight specific courses listed under pre-clinical courses. One science and one non-science pre-clinical course may be in progress at the time of application. All eight pre-clinical courses must be completed in December when applying for a spring term; June for fall. When applying for a fall term, coursework completed in summer will not be considered or accepted. Pre-Clinical

courses are acceptable regardless of date completed, but current knowledge is essential.

- Applicants are encouraged to complete the corequisite courses prior to admission. Introductory Psychology, Nutrition, and Life Span Human Development must be completed prior to the second semester of the nursing program. A societal-cultural patterns course must be completed prior to licensure and graduation.
- A minimum science GPA of 3.0 is required on the pre-clinical science courses completed at the time of application (anatomy, physiology, microbiology, and chemistry). One science course may be in progress at the time of application.
- A minimum GPA of 3.3 is required on the pre-clinical and corequisite courses completed at the time of application. Applicants may omit up to two grades from their GPA calculation providing they have a minimum of eight grades total, including 2 science grades. For example, an applicant applying with nine grades may omit one grade; an applicant with 10-12 grades may omit up to two grades. All pre-clinical and corequisite courses must be completed with a grade of 'C-' or better. Up to 50 admission points will be assigned based on the applicant's GPA (see School of Nursing website for details).
- All GPAs will be calculated using standard weights, not varying institutional unit assignments. Science lab courses will be weighted four (4) units; all other coursework will be weighted three (3) units. Pluses and minuses are not considered.
- Only three (3) of the twelve (12) grades in the Nursing GPA calculation may be repeats; only one (1) of the three (3) repeats may be a science course. A third attempt will not be considered. Courses over seven (7) years old are acceptable, but not included in repeat count.
- Completion of the ATI, Test of Essential Academic Skills (TEAS). A minimum score of 75.0% is required. The test must be taken no later than March 1 for the following fall semester or October 1 for the following spring semester. The test may be taken three times within a five-year period preceding the Supplemental Nursing Application deadline. The highest score will be used. Points will be assigned based on the applicant's total score from the best testing.See School of Nursing website for current point details and amounts.
- A minimum admission point total is required. The total will be based on current applicant pool statistics and posted on the Nursing website.

Optional points for admission (see School of Nursing website for current point details and amounts) **are awarded in the following categories:**

Bilingual Skills in Spanish, Chinese, South East Asian Languages, Indian Languages (Hindi, Punjabi), Tagalog, Russian, Farsi, Arabic, or American Sign Language will be determined by:

- completion of an oral proficiency examination;
- transcript documenting instruction provided in approved language.

Health-Related Work Experience. Candidates may receive points for documentation of paid or volunteer work in acute, long term, clinical, or community settings which involves direct human-client/patient interactions. Hours may be combined from multiple locations. Points are awarded for the following increments of time:

- 50 hours – minimum possible points
- 75 hours
- 100 hours – maximum possible points

Background. Details can be found on the nursing website.

- **First-Generation College Student**. Neither parent graduated with an associate or higher degree.
- **Environmental Background:** (see School of Nursing website for details).

GPA Calculation: Candidates may receive points for having no course omits for total GPA calculation and/or not having a repeat of a pre- or co-requisite course. Details can be found on the nursing website.

Additional Information

Health Requirements

Students admitted to the Clinical Nursing program are required to have specified immunizations by the Student Health Center or a private physician prior to beginning nursing coursework. Drug and alcohol screening is required before beginning clinical nursing (see below for details). Health insurance is required. Complete information on health requirements for nursing students may be secured from the School of Nursing.

Technology Competence

To be successful in the curriculum, students must be able to demonstrate competency in computer technology, such as word processing, use of the Internet, e-mail, and database searches. Clinical nursing students are required to own a personal computer.

Professional Liability Insurance, Automobile Insurance, Transportation and CPR Certification

All students enrolled in clinical laboratory courses in the nursing major must pay the University fee for professional liability insurance, provide proof of automobile insurance, and have a means of transportation to extended campus facilities. Professional liability insurance is mandatory prior to beginning clinical experiences. CPR certification for medical professionals is required as a prerequisite to the program and recertification must be maintained according to the requirements of the American Heart Association.

Background Checks

Nursing students must satisfactorily complete all clinical, community, and laboratory requirements in order to progress in courses, progress in the program, and to receive their degree. In order to make an initial determination as to whether there are any current barriers to admitted students qualifying for and/or participating in clinical programs, all admitted students must submit to a background check and drug screen under the direction of the nursing program **prior to enrollment**. Requirement for drug screening is consistent with the California Board of Registered Nursing guidelines for safe nursing practice. Results of background checks and drug screens will be provided to the nursing program's affiliating clinical agencies (partner agencies) which must approve the background checks and drug screens in order for students to qualify for participation in and fulfillment of the required clinical component. Students will be advised of any identified issues impacting their eligibility for participation in required clinical and community placements prior to making their decision to enroll. The full policy concerning background checks and drug screening in the nursing program can be found on the School of Nursing website (http://www.csus.edu/hhs/nrs/). Students should also be aware that the State of California Board of Registered Nursing makes determinations for licensure based in part on background checks. Students who have concerns regarding their background checks should review the BRN website (http://www.rn.ca.gov/enforcement/convictions.shtml/) for information related to initial licensure before determining whether to apply and/or enroll in the nursing program.

Challenge by Examination

The School of Nursing offers the opportunity of petitioning certain nursing courses for credit by examination. Students who by reason of special study, experience or training, already possess the skills, knowledge, and attitudes which are the objectives of the given course, may petition for credit by examination. A maximum of 30 units may be challenged. Licensed Registered Nurses, Licensed Vocational Nurses, and Corpsmen are examples of students who may be eligible to challenge specific nursing courses. Additional information may be obtained by referring to 'Credit by Examination' in this catalog or by contacting the School of Nursing.

Note: Students graduating with a Pre-Licensure BS Program in Nursing (traditional) will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Program Requirements

Code	Title	Units
Required Pre-Clinical Courses (29 Units)		
Select a two-semester Anatomy and Physiology series with an in-class lab such as:		8
BIO 25	Human Anatomy and Physiology I	
& BIO 26	Human Anatomy and Physiology II	
Select a Microbiology course with an in-class lab such as:		4
BIO 39	Microbiology for Allied Health Students	
Select a Chemistry course; general, inorganic, organic, or integrated (with associated lab if required at the Institution where the course was taken) such as:		5
CHEM 6A	Introduction to General Chemistry	
Select an introductory college composition (any GE Area A2) course such as:		3
ENGL 5	Accelerated Academic Literacies [1]	
Select an Oral Communication (any GE Area A1) course such as:		3
COMS 4	Introduction to Public Speaking [1]	
Select a statistics (any GE Area B4) course such as:		3
STAT 1	Introduction to Statistics [1]	
Select a Critical Thinking (any GE Area A3) course such as:		3
COMS 2	Argumentation [1]	
or ANTH 4	Language, Culture, and Critical Thinking	
Required Clinical Nursing Courses (61 Units)		
At any time prior to 2nd semester		
CHDV 30	Human Development (or similar course in Life Span Human Development) [1]	3
FACS 10	(or similar course in Human Nutrition) [1]	3
PSYC 2	Introductory Psychology (or similar course in Introductory Psychology) [1]	3
First Semester Courses		
NURS 111	Introduction to Professional Nursing	3
NURS 112	Nursing Care Of Adults	5
NURS 113	Professional Nursing Communication, Assessment and Skills	4
Second Semester Courses		
NURS 120	Nursing Application of Research and Critical Analysis [1,2]	3
NURS 123	Nursing Families in Complex Illness	6
NURS 129	Mental Health Nursing	5
Third Semester Courses		
NURS 136	Nursing Laboratory for the Childbearing Family	1
NURS 137	Nursing the Childbearing Family	5
NURS 138	Nursing the Childrearing Family	5
NURS 139	Nursing Laboratory for the Childrearing Family	1
Fourth Semester Courses		
NURS 143	Leadership and Management in Nursing Practice	3
NURS 144	Community Health Nursing	5
NURS 145	Clinical Leadership and Professional Role Development	6
Additional Graduation Requirements (3 Units)		
Select a course in societal-cultural patterns at any time before graduation and prior to certification of eligibility for state licensure such as:		3
ANTH 2	Introduction to Cultural Anthropology [1]	
ANTH 101	Cultural Diversity [1]	
ANTH 144	Contemporary American Culture in Anthropological Perspective	
ANTH 186	Culture and Poverty [1]	
ETHN 11	Introduction to Ethnic Studies [1]	
ETHN 100	Ethnic America [1]	
HRS 161	Multicultural America [1]	
SOC 1	Principles of Sociology [1]	
The following additional courses are recommended but not required:		
NURS 160	Human Sexuality	
NURS 168	The Brain and Gender-Related Differences [1,2]	
Total Units		93

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. No more than nine units from courses bearing the same designation as student's major may be applied to General Education requirements (e.g., NURS). Freshman Seminar does not, in any case, count against the 9 unit overlap.

When possible, students are encouraged to apply their pre-clinical courses to General Education requirements.

Notes:

- Applicants with a prior baccalaureate degree are exempt from General Education requirements.
- In addition to the major in Nursing, students may also complete a minor in another discipline. There are numerous disciplines which would enrich the baccalaureate degree in Nursing (e.g., Gerontology). Information on minors can be obtained by contacting the department of interest.
- Satisfactory completion of the program requires a grade of 'C' or better in every nursing course. The policy in the School of Nursing permits one repeat of only *one* failed course. However, opportunity to repeat a failed nursing course will depend upon the number of students enrolled in the course, the availability of clinical and community experiences (if applicable), and a successful petition to repeat from the School of Nursing. Course repeats are not permitted to increase grade.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]		0
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6-9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area E: Understanding Personal Development		
Area E Course [2]		0
Total Units		21-24

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.
3. Department recommends ANTH 101, ANTH 186, or ETHN 100 to meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		0

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

MS in Nursing

Total units required for the MS: 33

Program Description

The Master of Science in Nursing is traditionally designed to prepare registered nurses with baccalaureate degrees for advanced roles in nursing. The hybrid curriculum (refer to the University's e-Learning policy (http://www.csus.edu/umanual/acadaff/fsd00010.htm)) emphasizes the systematic study of professional nursing practice and preparation for educational and leadership roles. The program is designed for nurses who require graduate preparations to qualify for positions of greater responsibility and complexity.

Admission into programs leading to licensure, credentialing, or certification eligibility does not guarantee that students will obtain a license, credential, or certification. Licensure, credentialing, or certification requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure, credentialing, or certification requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure, credentialing, or certification requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure, credentialing, or certification requirements. Information concerning licensure, credentialing, or certification requirements are available from Sara Niekamp, Office Manager, at 916/278-6714 or sara.niekamp@csus.edu. Mailing address: 6000 J Street, Sacramento, CA 95819-6096. Physical address: 7667 Folsom Boulevard, Sacramento, CA 95826.

Admission Requirements

To be considered for admission to the Master of Science in Nursing, applicants must:

- have a Bachelor of Science degree in nursing from an accredited institution, OR an RN from an accredited associate's degree program and a baccalaureate degree in a discipline related to nursing;
- have a GPA of 3.0 in the last 60 units of undergraduate nursing coursework;

- have an overall GPA of 3.0 (If the GPA requirement is unmet, the student may apply for conditional classification and demonstrate academic ability by enrolling in, and successfully passing with a 'B' (83%) or better, NURS 209 and NURS 210 in one attempt);
- possess a current unencumbered RN license in California; and
- submit a statement of purpose that outlines the goals and objectives for the pursuit of graduate study.

Professional Liability and Automobile Insurance and Health Requirements

All students enrolled in clinical laboratory courses in the Master's program must pay the fee for the University professional liability insurance. Professional liability insurance is mandatory prior to beginning clinical experiences. Proof of automobile insurance may be required for clinical experience. The student admitted to the Master's program is required to have specified immunizations by the Student Health Service or a private physician prior to beginning nursing coursework. Drug and alcohol and background screening is required. Health insurance is required. Complete information on health requirements may be secured from the School of Nursing.

Technology Competence

To be successful in the curriculum, students must be able to demonstrate competency in computer technology, such as word processing, use of the Internet, e-mail, and database searches.

Admission Procedures

Prospective graduate students, including Sacramento State graduates, must file the following materials as a complete admission packet with the Office of Graduate Studies:

- an online application for admission;
- one set of official transcripts from all colleges and universities attended, *other than Sacramento State*;

For more admissions information and application deadlines please visit the School of Nursing website *(*http://www.csus.edu/gradstudies/*).*

Notice of the decision regarding admission will be mailed to the applicant after files are complete and reviewed. Students will be assigned a faculty advisor at the beginning of the school year.

Minimum Units and Grade Requirement for the Degree

Units required for the MS: 33

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. The procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program, with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available online at www.csus.edu/gradstudies/forms (http://www.csus.edu/gradstudies/forms/), Office of Graduate Studies. The student fills out the form after planning a degree program in consultation with his/her advisor. The completed form is then returned to the Office of Graduate Studies for approval. Students may not register for the Culminating Requirement until they have advanced to candidacy.

Program Requirements

Code	Title	Units
Core Courses (15 Units)		
NURS 209	Advanced Role Development in Nursing	3
NURS 210	Research as the Foundation for Advanced Nursing	3
NURS 213	Seminar in Organizational and Systems Leadership	3
NURS 214	Educational Program Development in Nursing	3
NURS 215	Community Health Services and Policy	3
Advanced Practice Role Preparation (15 Units)		
Select one of the following areas:		15
Advanced Clinical/Educator Role		
NURS 230	Advanced Concepts in Pathophysiology	
NURS 231	Pharmacology for Advanced Practice	
NURS 232	Advanced Physical Assessment Across the Lifespan	
NURS 293	Practicum in Organizational and Systems Leadership	
NURS 294	Practicum in Educational Program Development in Nursing	
School Nursing Role		
NURS 213C	Seminar in Specialized Nursing Processes: School Nursing I	
NURS 213D	Seminar in Specialized Nursing Processes: School Nursing II	
NURS 232A	Advanced Physical Assessment: Infant, Child, Adolescent	
NURS 293D	Practicum in Specialized Nursing Processes: School Nursing	
Culminating Requirement (3 Units)		
NURS 500	Culminating Experience	3
Total Units		33

RN-BSN (Track A) and ADN-BSN Collaborative Track

Units required for Major: 44-46
Total units required for BSN: 120

Program Description

The School of Nursing offers two pathways for students who start their nursing education in a non-baccalaureate program to earn a bachelor's degree (BSN).

These two pathways are:

1. RN-BSN - Traditional 15-Week Semester track
2. ADN to BSN Collaborative track

Both tracks are designed to be completed in 12-15 months if attending full time. Nursing courses are offered in hybrid format (http://www.csus.edu/umanual/acadaff/fsd00010.htm) (mostly online). Depending on the student's need, General Education courses may be hybrid or on campus. The programs include a Community/Public Health clinical course (NURS 174C). Completion of the full program of study, which includes NURS 174C, qualifies students to apply for a Public Health Nurse (PHN) certificate from the the California Board of Registered Nursing. The School of Nursing faculty strongly recommend NURS 174C for all students as it is an important part of the BSN education and offers opportunities for diverse nursing roles and employment.

Admission Requirements

RN-BSN - Traditional 15-Week Semester Track:

- Prerequisite courses must be completed prior to admission;
- Must possess a current valid California registered nursing license;
- Applicants who are currently employed as a Registered Nurse and/or completed all prerequisites will have priority for admission;
- Must have a cumulative GPA of 2.6 upon completion of qualifying nursing program
  - In the event all candidates meet all eligibility requirements, supplemental written or oral communication may be required;
- Admission to Sacramento State including official transcripts of all institutions attended;
- Completed RN to BSN online application;
- Program admission is contingent upon meeting requirements outlined and passing drug screening and background check.

ADN to BSN Collaborative Track:

- Students currently in good standing and actively enrolled in once of the community college nursing programs at American River, Sacramento City, or Sierra College are eligible to apply;
- Prerequisite courses must be completed prior to admission;
- Must have a cumulative GPA of 2.6 or higher
  - In the event all candidates meet all eligibility requirements, supplemental written or oral communication may be required;
- Admission to Sacramento State including official transcripts of all institutions attended;
- Completed RN to BSN online application;
- Program admission is contingent upon meeting requirements outlined and passing drug screening and background check;

Note: Students must pass the NCELX RN examination and possess a current valid Registered Nurse License to enroll in third semester. Students not passing the examination may apply for the RN-BSN Program and have units transferred.

Required Prerequisite Requirements

The prerequisite classes listed below must have all been completed prior to admission with a grade of 'C' or better and are used as part of the 70 transferable units:

- A two-semester Anatomy and Physiology series with an in-class lab (8 units) such as:
  - BIO 25 Human Anatomy and Physiology I **AND** BIO 26 Human Anatomy Physiology II or Systemic Physiology ***OR*** BIO 22 Introductory to Human Anatomy **AND** BIO 131 Systemic Physiology
- A Microbiology course with a lab (4 units) such as:
  - BIO 39 Microbiology for Allied Health Students ***OR*** BIO 139 General Microbiology
- Chemistry as approved by campus; general, inorganic, or integrated; with associated lab (if applicable at the institution where the course was taken) (5 units) such as:
  - CHEM 6A Introduction to General Chemistry
- A Written Communication course (any GE Area A2 course) (3 units) such as:
  - ENGL 5 Accelerated Academic Literacies
- An Oral Communication course (Any GE Area A1 course) (3 units) such as:
  - COMS 4 Introduction to Public Speaking
- A Statistics course (3 units) such as:
  - STAT 1 Introduction to Statistics
- A Critical Thinking course (any GE Area A3 course) (3 units) such as:
  - COMS 2 Argumentation ***OR*** ENGL 1C Critical Thinking and Writing

In Progress Policy: Classes may be in progress prior to admission. Unofficial transcripts may be submitted for in-progress classes but must be replaced with official transcripts.

Minimum Grade Requirement

Satisfactory completion of the program requires a grade of 'C' or better in every nursing course.

Program Requirements

Code	Title	Units
Prerequisite Courses (37 Units) [1]		
BIO 25 & BIO 26	Human Anatomy and Physiology I Human Anatomy and Physiology II	8
OR		
BIO 22 & BIO 131	Introductory Human Anatomy Systemic Physiology	8
BIO 39 or BIO 139	Microbiology for Allied Health Students General Microbiology	4
CHEM 6A	Introduction to General Chemistry [2]	5
COMS 4	Introduction to Public Speaking [2,4]	3
COMS 2 or ENGL 1C	Argumentation [2,5] Critical Thinking and Writing	3
ENGL 5	Accelerated Academic Literacies [2,3]	3
STAT 1	Introduction to Statistics [2]	3

1. To be completed prior to admission.
2. Course also satisfies General Education (GE)/Graduation Requirement.
3. Any GE Area A1 (http://catalog.csus.edu/colleges/academic-affairs/general-education/#text) course.
4. Any GE Area A2 (http://catalog.csus.edu/colleges/academic-affairs/general-education/#text) course.
5. Any GE Area A3 (http://catalog.csus.edu/colleges/academic-affairs/general-education/#text) course.

Code	Title	Units
RN-BSN - Traditional 15-Week and ADN to BSN Collaborative Track Required Upper Division Courses (46 Units)		
NURS 170	Foundations for Evidence-Based Nursing Practice	3

NURS 171	Transitional Concepts: The Baccalaureate Nurse	6
NURS 173	Theoretical Foundations for Leadership and Management	6
NURS 174	Community Health Nursing: Concepts and Practice	4
NURS 174C	Community Health Nursing: Clinical Elective [1]	2
NURS 178	Culminating Project	3
NURS 179	Professional Communication and Reasoning Development [2]	3
Nursing NCLEX-RN (National Exam/RN) credit will be awarded in the final semester of the nursing program		19
Total Units		46

[1] NURS 174C is an elective course that is only required for students wishing to apply for the California Board of Registered Nursing Public Health Nurse Certificate. Students not planning to apply for a Public Health Nurse Certificate must be petition for an exemption from this clinical course. Students who are granted exemption for NURS 174C will only complete 44 units.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

Note:

- Students graduating with a BSN (post-licensure) in Nursing will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.
- Opportunity to repeat nursing courses will depend upon space availability in classroom and clinical placements.
- Total Units Required for BSN (post-licensure program) 120.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (9 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		30

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of Nursing (all concentrations) in are exempt from the Foreign Language Graduation Requirement.

RN-BSN (Track B)

Program scheduled for Suspension, please contact the School of Nursing (p. 694) for further details.

School Nurse Credential

Units required for Credential: 22-25

Program Description

Students who are eligible for the California School Nurse Services Preliminary Credential from the California Commission on Teacher Credentialing and who meet the graduate program admission criteria may apply to the program. Admission criteria and procedures are similar to those for the MS program except the application and recommendation forms are directed to the School Nurse Program Coordinator. Students are held to the same professional liability and automobile insurance and health requirements as MS students.

Program Requirements

Code	Title	Units
NURS 213C	Seminar in Specialized Nursing Processes: School Nursing I	4
NURS 213D	Seminar in Specialized Nursing Processes: School Nursing II	4
NURS 214	Educational Program Development in Nursing	3
NURS 215	Community Health Services and Policy	3
NURS 216	Vision and Scoliosis Screening	1
NURS 232A	Advanced Physical Assessment: Infant, Child, Adolescent	3
NURS 293D	Practicum in Specialized Nursing Processes: School Nursing	4
Coursework required to become certified as a California school audiometrist		0 - 3
Total Units		22-25

In addition to the above courses, the Professional Credential for MS candidates requires two years of full-time school nurse experience (or its part-time equivalent).

Special Teaching Authorization in Health (STAH)

Program Description

The STAH option is available to school nurses who wish to position themselves to become faculty of record for health classes within public school districts. The STAH is not required for the school nurse credential but is considered a supplemental credential. Candidates for the STAH must hold a school nurse credential or apply for both credentials at the same time. The STAH authorizes nurses to provide health education instruction beyond that of periodic guest presentations (e.g., Family Life Education) and allows school administrators to utilize nurses in the capacity of health educators through the provision of direct and regular health instruction.

Program Requirements

Completion of nine units of educational pedagogy including a supervised student (practice) teaching experience and passing of the CBEST (California Basic Educational Skills Test).

Code	Title	Units
NURS 214C	Educational Program Development in Nursing II	3
NURS 294	Practicum in Educational Program Development in Nursing	3
Total Units		6

Physical Therapy

College of Health and Human Services

Program Description

The primary mission of the California State University, Sacramento Doctor of Physical Therapy program is to graduate knowledgeable, effective, adaptable, and reflective physical therapist generalist practitioners and health care leaders. Graduates demonstrate ethical, responsible, professional behavior, are sensitive to cultural and psychosocial differences, use evidence derived from the scientific and professional literature to inform independent judgments to meet patient needs and to advance the profession. They utilize critical and integrative thinking and problem-solving, practice lifelong learning, and provide services that contribute to the optimal health and function of community residents.

Physical Therapy at Sacramento State is one of several professional curricula in the College of Health and Human Services. The program complements others in the College and provides opportunities for scholarship, instructional collaboration, and interaction.

The doctoral curriculum of 3 years, including summers, encompasses didactic instruction, laboratory experience, and clinical education. The clinical component is thirty-six weeks of full-time, off-campus clinical experiences.

Degree Program

Doctor of Physical Therapy (p. 715)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Doctor of Physical Therapy is also individually accredited by Commission on Accreditation in Physical Therapy Education (CAPTE).

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

- Following successful completion of both the clinical and regular academic program, students are awarded a Doctor of Physical Therapy and will be eligible to take the National Physical Therapy Licensure Examination.
- The Doctor of Physical Therapy degree program at Sacramento State is fully accredited by the Commission on Accreditation in Physical Therapy Education/APTA. The Commission can be contacted for questions at:
  1111 North Fairfax Street

Alexandria, VA 22314-1488
(703) 684-2782

Notes:

- Admission is for fall semester only.
- Classes are offered primarily during daytime hours, and full-time study is required.

Career Possibilities

Hospitals · Ambulatory Care Centers · Private Practice · Sports Medicine Centers · Rehabilitation Centers · Industries · Extended Care Facilities · Home Health Care · Schools · University Teaching and Research · Consulting

Contact Information

D. Michael McKeough, PT, Ed.D., Director
Heather Crummett, Administrative Coordinator
Folsom Hall 1054
(916) 278-6426
Department of Physical Therapy Website (http://www.csus.edu/hhs/pt/)

Faculty

COLEMAN-SALGADO, BRYAN

ESCAMILLA, RAFAEL

GARCIA, WILLIAM

GREEN, ERIN

LAZARO, ROLANDO

MacLEOD, TORAN

MATTERN-BAXTER, KATRIN

McKEOUGH, D. MICHAEL

MOORE, BRIAN

STOCKERT, BRAD

PT 280. Graduate PT Seminar II. 1 Unit
Term Typically Offered: Fall, Spring

Presented after the final clinical field experience, will review students' experiences in the clinic and promote reflection on the professional practice of physical therapy. Serves as a review of a variety of physical therapy subjects in preparation for the licensure examination. Students will use computer interactive software to assist with preparation for this standardized national test format.
Note: Open to Physical Therapy majors only.

PT 295. Physical Therapy Clinical Experience. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised clinical affiliation equivalent to two full-time weeks up to six full-time weeks in a physical therapy setting under the direct supervision of a licensed Physical Therapist.
Note: Placement is arranged through the Program. Permission of Clinical Coordinator required.

Credit/No Credit

PT 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading designed for students capable of independent study.
Note: Admission requires written approval of instructor and program director.

Credit/No Credit

PT 510. Audiology Progress Exam. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 620, CSAD 620C, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 630, CSAD 630C, CSAD 631, CSAD 632.
Term Typically Offered: Summer only

Formative written and practical exam based on coursework and clinical experiences from the first year of the Doctor of Audiology program.
Credit/No Credit

PT 600. Pathokinesiology. 5 Units
Prerequisite(s): Open to Physical Therapy majors only.
Corequisite(s): BIO 633, PT 602, PT 608, PT 630.
Term Typically Offered: Fall, Spring

This course will address functional anatomy, surface anatomy with palpation, arthrology, biomechanics, pathologies related to the musculoskeletal and nervous systems. Both normal motion and pathological motion will be addressed. Students will gain competence in surface anatomy and palpation skills.

PT 602. Evidence Informed Practice I. 3 Units
Prerequisite(s): Open to Physical Therapy majors only.
Corequisite(s): BIO 633, PT 600, PT 608, PT 630.
Term Typically Offered: Fall, Spring

This course is designed to teach students to critically read and interpret the physical therapy scientific literature. Topics will include research design and statistical testing procedures commonly used in physical therapy. Students will review and critique current physical therapy articles utilizing the research designs and statistical testing procedures being studied.

PT 604. Principles of Human Movement. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 606, PT 614, PT 618, PT 620, PT 622.
Term Typically Offered: Fall, Spring

This course focuses on developing an understanding of components of human movement under normal and pathological conditions. Content includes the American Physical Therapy Association Model of Practice, models of disablement, contemporary concepts of motor learning and motor control, task analysis, and theories of the recovery of function. The course includes a review of the foundations of neuroanatomy for normal movement.
Note: Open to Physical Therapy majors only.

PT 606. Therapeutic Measurements and Techniques. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 604, PT 614, PT 618, PT 620, PT 622.
Term Typically Offered: Fall, Spring

In this course students acquire general physical therapy examination, evaluation and patient handling skills. Students will practice and demonstrate techniques under faculty supervision in the following areas: Measurement of vital signs, manual strength testing, testing of joint range of motion and muscle length, patient positioning, transfer techniques, gait training, use of wheelchairs, and use of assistive devices.
Note: Open to Physical Therapy majors only.

PT 608. PT/Patient/Professional Interactions. 2 Units
Corequisite(s): BIO 633, PT 600, PT 602, PT 630.
Term Typically Offered: Fall, Spring

The course prepares physical therapy students to learn about themselves, others, and the environment in which they will interact with others as professionals. It addresses professionalism, self-awareness, communication, cultural competence, ethics, documentation, and end-of-life care. This course assists students with transitioning into their professional roles.
Note: Graduate Writing Intensive (GWI) course; open to Physical Therapy majors only.

PT 614. Neuroscience for Physical Therapy. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 604, PT 606, PT 618, PT 620, PT 622.
Term Typically Offered: Fall, Spring

This course is designed to prepare clinicians to better understand the neurological control of human behavior. A systems approach is used to examine the major anatomical and physiological principles and mechanisms by which the nervous system controls behavior under normal and pathological conditions. Because the course is being taught to health care professionals, clinical correlates of each system will also be presented. One class session is dedicated to presentation of human gross anatomical specimens.

PT 618. Foundations for Patient Management. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 604, PT 606, PT 614, PT 618, PT 620, PT 622.
Term Typically Offered: Fall, Spring

This course introduces the disablement model that forms the conceptual framework for understanding and organizing the practice of physical therapy. The model delineates the possible consequences of disease and injury for the person and society. The course goes on to identify how the model informs the five elements of patient management: Examination, Evaluation, Diagnosis, Prognosis (including Plan of Care), and Intervention. The course will further expand on professionalism introduced in PT 608.
Note: Open to Physical Therapy majors only.

PT 620. Physical Therapy Interventions I. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 604, PT 606, PT 614, PT 618, PT 622.
Term Typically Offered: Fall, Spring

In this course students learn, practice and demonstrate the clinical application of basic exercise regimes for the prevention of limitations, improvement of functional abilities and the treatment of disorders associated with the neuromuscular, skeletal and cardiopulmonary systems. In addition, the application of motor control principles to exercise and aquatic therapy are addressed.
Note: Open to Physical Therapy majors only.

PT 622. Evidence Informed Practice II. 3 Units
Corequisite(s): PT 604, PT 606, PT 614, PT 618, PT 620.
Term Typically Offered: Fall, Spring

Designed to build upon the data analysis and research design topics covered in PT 602. Emphasis will be placed on evidence based methodologies currently used in the physical therapy literature evaluating the effectiveness of interventions, the validity of outcome measures, the validity of diagnostic measures, and the identification of prognostic measures.
Note: Open to Physical Therapy majors only. Prerquisite

PT 624. Adult Neuromuscular Patient Management I. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 636, PT 638.
Corequisite(s): PT 625, PT 626, PT 640, PT 646.
Term Typically Offered: Fall, Spring

This course is first in a three course sequence focused on acquisition and integration of knowledge and skills needed to manage patients with movement dysfunction caused by neurological damage (Refered to in the Guide as Neuromuscular Practice Patterns). Focus is on development and implementation of plans of care based on sound evaluative, treatment and problem-solving skills.
Note: Open to Physical Therapy majors only.

PT 625. Musculoskeletal Patient Management I. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 636, PT 638.
Corequisite(s): PT 624, PT 626, PT 640, PT 646.
Term Typically Offered: Fall, Spring

This course, the first of three, focuses on acquisition, integration, knowledge and skills involved in developing and implementing a patient management plan for the patient with musculoskeletal dysfunction based on sound evaluative findings. Lectures address etiology, signs and symptoms, medical, surgical, and physical therapy management of musculoskeletal dysfunction. Labs address skill development for performing evaluation and interventions safely and effectively. The course addresses the management of lower extremity dysfunction.
Note: Open to Physical Therapy majors only.

PT 626. Clinical Agents. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 636, PT 638.
Corequisite(s): PT 624, PT 625, PT 640, PT 646.
Term Typically Offered: Fall, Spring

This course presents theory, demonstration and laboratory practice in physical therapy modalities and techniques including thermal agents, hydrotherapy, ultrasound (US), ultraviolet, diathermy and massage. Theory, demonstration and practice using electrical modalities are included. Case studies will be utilized for decision making in the proper application of modalities based on current research evidence, knowledge of indications, contradictions and physiologic effects.
Note: Open to Physical Therapy majors only.

PT 627. Physical Therapy Educator. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 646.
Corequisite(s): PT 644, PT 645, PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This course presents the role of the physical therapist as health educator. The course introduces teaching and learning theory, learning domains, the identification of learning styles, and teaching strategies to address different learner needs across the life-span. Students will practice instructional formats and prepare and analyze patient education materials. Students will practice applications of appropriate technology for the design of professional presentations. Self-assessment, reflection and peer-assessment are required course components.
Note: Open to Physical Therapy majors only.

PT 630. Pathophysiology. 3 Units
Prerequisite(s): Admission to the Doctor of Physical Therapy Program.
Corequisite(s): BIO 633, PT 600, PT 602, PT 608.
Term Typically Offered: Fall, Spring

This course is designed to promote the understanding and application of fundamental disease processes in clinical settings. General concepts of disease, including etiology, pathogenesis, morphology, and clinical significance are discussed within the context of cases. General pathophysiology concepts include: cell injury, necrosis, inflammation, wound healing and neoplasia. These concepts are applied in a systems-orientated approach to disease processes affecting musculoskeletal, cardiopulmonary, renal, nervous, gastrointestinal, immune, hematological and endocrine systems.

PT 632. Pharmacology for Physical Therapists. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630.
Corequisite(s): PT 634, PT 636, PT 638.
Term Typically Offered: Fall, Spring

This course provides a study of pharmacological agents and their effects on the musculoskeletal, neuromuscular, cardiopulmonary and integumentary systems. Particular emphasis is placed on recognition of adverse reactions and side effects of various drugs as they affect patients receiving physical therapy.
Note: Open to Physical Therapy Majors only.

PT 634. Diagnostic Imaging for Physical Therapy. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630.
Corequisite(s): PT 632, PT 636, PT 638.
Term Typically Offered: Fall, Spring

This course provides an overview of imaging techniques commonly used in radiology and their implications to the role of physical therapists in professional practice. The role of imaging techniques in the diagnostic and intervention-planning processes for physical therapists is presented.
Note: Open to Physical Therapy Majors only.

PT 636. Geriatrics/Gerontology for Physical Therapists. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630.
Corequisite(s): PT 632, PT 634, PT 638.
Term Typically Offered: Fall, Spring

This course explores normal and pathological aging and the implications of both on Physical therapist practice. It will explore the ramifications of aging components of patient management interventions including major practice patterns: musculoskeletal, neuromuscular, cardiopulmonary, and integumentry. It will also explore how aging may impact patient teaching.
Note: Open to Physical Therapy majors only.

PT 638. Health, Wellness and Ergonomics in Physical Therapy. 2 Units
Prerequisite(s): BIO 633, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630.
Corequisite(s): PT 632, PT 634, PT 636.
Term Typically Offered: Fall, Spring

This course presents basic philosophical, historical, psychological and scientific foundations in wellness; reviews cultural forces/theories that affect individuals and society; applies concepts of healthy lifestyle education to reach an understanding of the importance of wellness and to establish an effective and potentially fulfilling lifestyle. Ergonomic concepts as they apply to patient and self (to maintain and prevent future injuries, especially repetitive) will be covered as one preventative strategy.
Note: Open to Physical Therapy majors only.

PT 640. Physical Therapy Interventions II. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 636 and PT 638.
Corequisite(s): PT 624, PT 625, PT 626, PT 640, PT 646, PT 660A.
Term Typically Offered: Fall, Spring

This course is a continuation of Physical Therapy Interventions I. This course focuses on the presentation of selected topics in acute care and cardiopulmonary Physical Therapy. Students will learn how to perform appropriate and comprehensive examinations, interpret the examination findings as well as design and implement a plan of care based upon the next available evidence.
Note: Open to Physical Therapy majors only.

PT 644. Adult Neuromuscular Patient Management II. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 645, PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This course is the second in a three course sequence focused on acquisition and integration of knowledge and skills needed to manage patients with movement dysfunctions caused by neurological damage (Referred to in the Guide as Neuromuscular Practice Patterns). Focus is on development and implementation of plans of care based on sound evaluative findings and evidence of efficacy. Case presentation, video demonstrations, and patient contact is used to develop evaluation, treatment and problem solving skills.
Note: Open to Physical Therapy majors only.

PT 645. Musculoskeletal Patient Management II. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This course, the second of three, focuses on acquisition and integration of knowledge and skills involved in developing and implementing management plans for patients with musculoskeletal dysfunction from sound evaluative findings. Lectures address etiology, signs and symptoms, medical, surgical, and physical therapy management of musculoskeletal dysfunction. Labs address safe and effective evaluation and interventions, specifically joint mobilizations. Joint mobilizations will cover one technique per joint restriction. This course addresses upper extremity and spine dysfunction.
Note: Open to Physical Therapy majors only.

PT 646. Acute Care and Cardiopulmonary Physical Therapy. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 636 and PT 638.
Corequisite(s): PT 624, PT 625, PT 626, PT 640.
Term Typically Offered: Fall, Spring

This course focuses on the presentation of selected topics in acute care and cardiopulmonary Physical Therapy. The course includes a discussion of common pathologies in the cardiopulmonary system and those associated with an acute care setting, as well as common medical tests, laboratory tests, surgical procedures and pharmacological interventions used with this patient population.
Note: Open to Physical Therapy majors only.

PT 648. Health Care Delivery in Physical Therapy I. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This course provides a historical overview of health care delivery and financing in the U.S., up to and including the current effects on the delivery of physical therapy care. The continuum of care concept, an overview of national economic policy and the mechanisms for financing physical therapy services will be presented. Administrative topics including human resources, financial management, planning, marketing, patient's rights, and medical records management will be covered.
Note: Open to Physical Therapy majors only.

PT 660A. Graduate Physical Therapy Seminar 1A: Research. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 636 and PT 638
Corequisite(s): PT 624, PT 625, PT 626, PT 640, PT 646
Term Typically Offered: Fall, Spring

This seminar is the first designed for advanced study and mentoring in physical therapy research. Students will be participating in faculty-directed research projects. Students' activities will vary depending on the faculty member and research project being conducted. Students are required to perform at least 50 hours of activities toward the directed research project to receive credit for this course. This course satisfies one of two requirements for selected seminars in the curriculum.

PT 660B. Graduate Physical Therapy Seminar IB: Research. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645 PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This seminar is the second designed for advanced study and mentoring in physical therapy research. Students will be participating in faculty-directed research projects. Students' activities will vary depending on the faculty member and research project being conducted. Students are required to perform at least fifty hours of activities toward the directed research project to receive credit for this course. This course satisfies one of two requirements for selected seminars in the DPT curriculum.
Note: Open to Physical Therapy majors only.

PT 660C. Graduate Physical Therapy Seminar IC: Research. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.
Corequisite(s): PT 663, PT 664, PT 665, PT 668, PT 680, PT 690.
Term Typically Offered: Fall, Spring

This seminar is the third designed for advanced study and mentoring in physical therapy research. Students will be participating in faculty directed research projects. Students' activities will vary depending on the faculty member and research project being conducted. Students are required to perform at least 50 hours of activities toward the directed research project to receive credit for this course. This course satisfies one of two requirements for selected in the DPT curriculum.
Note: Open to Physical Therapy majors only.

PT 660D. Graduate Physical Therapy Seminar ID: Electrotherapeutics. 2 Units

Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626 ,PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This is a seminar laboratory experience focusing on electrophysiology and electrodiagnostics in physical therapy. The lab will allow students to research and apply evidence-based practice and gain advanced hands-on practice in performing and interpreting the results of electromyographic and nerve conduction velocity testing with clients. This course satisfies one of two requirements for selected seminars in the curriculum.
Note: Open to Physical Therapy majors only.

PT 660E. Graduate Physical Therapy Seminar IE: NeuroPediatric Laboratory. 2 Units

Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.
Corequisite(s): PT 663, PT 664, PT 665, PT 668, PT 680, PT 690.
Term Typically Offered: Fall, Spring

This seminar laboratory experience focuses on pediatric patient management. The lab will allow students to research and apply evidence-based practice and gain advanced hands-on practice in pediatric physical therapy. This course is best suited for students planning a career in pediatric patient management. The course satisfies one of two requirements for selected seminars in the curriculum.
Note: Open to Physical Therapy majors only.

PT 660F. Graduate Physical Therapy Seminar IF: Adult Neuromuscular Laboratory. 2 Units

Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 646, PT 644, PT 645, PT 648, PT 662, PT 669.
Corequisite(s): PT 663, PT 664, PT 665, PT 668, PT 680, PT 690.
Term Typically Offered: Fall, Spring

This seminar laboratory experience focuses on adult neuromuscular patient management. The laboratory will allow students to research and apply evidence-based practice and gain advanced hands-on practice in adult neurorehabilitation. Students will also serve as mentors for the Mock Clinic portion of PT 624. This course satisfies one of two requirements for selected seminars in the curriculum.
Note: Open to Physical Therapy majors only.

PT 660G. Certified Strength and Conditioning Specialist (CSCS). 2 Units

Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.
Corequisite(s): PT 663, PT 664, PT 665, PT 668
Term Typically Offered: Fall, Spring

This seminar is designed to prepare students to take the Certified Strength and Conditioning Specialist Examination. The seminar covers the topics of excercise physiology, bioenergetics, nutritional factors in performance, resistance, speed, and agility training, endocrine responses to resistance training, exercise testing, and other training considerations. This course satisfies one of two requirements for selected seminars in the curriculum.
Note: Open to Physical Therapy majors only.

PT 660H. Graduate Physical Therapy Seminar H: Cardiovascular Wellness Clinic Experience. 1 Unit

Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.
This elective provides mentored clinical experience for students in the area of cardiovascular well ness. The student will design and implement an evaluation of a volunteer client in a cardiovascular well ness program, develop an individualized plan of care, and monitor the impact of the intervention. A written comprehensive case report will analyze the impact of the interventions on the cardiovascular well ness of the client.
Note: Open to Physical Therapy majors only.

PT 660K. Graduate Physical Therapy Seminar 1K Adv. Biomechanics II. 2 Units

Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630, PT 604, PT 606, PT 614, PT 618, PT 620, PT 622, PT 632, PT 634, PT 636, PT 638, PT 624, PT 625, PT 626, PT 640, PT 696J
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 669, PT 662
This elective is designed to prepare students to run a gait analysis clime in the biomechanics laboratory. The course is one unit of lecture and one unit of lab, and covers the topics of assessment of balance, lower extremity strength assessment, special tests, and running analysis from both the research 'gold standard' as well as the clinically feasible perspective with a particular focus on running.

PT 662. Differential Diagnosis in Physical Therapy. 3 Units

Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 669.
Term Typically Offered: Fall, Spring

This course focuses on learning and practicing screening techniques for physical therapists to detect medical or other problems for which a referral to a medical doctor or another health care provider is indicated. Students will learn to screen patients for dysfunction in a variety of physiological systems by taking medical history, medication history, performing a risk factor assessment and manual examination, and screening various physiological systems.
Note: Open to Physical Therapy majors only.

PT 663. Integumentary Patient Management. 2 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 662, 669 and 695A.
Corequisite(s): PT 664, PT 665, PT 668, PT 680, PT 690.
Term Typically Offered: Fall, Spring

This course focuses on the management of patients with integumentary impairments and their related sequelae. Topics include post-surgical management of patients with amputations, prosthetics, and management of the patient with a wound or burn injury. Lecture, case presesentation, video demonstrations, and laboratory activities will be used to develop patient management skills.
Note: Open to Physical Therapy majors only.

PT 664. Neuropediatric Patient Management. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669 and PT 695A.
Corequisite(s): PT 663, PT 665, PT, 668, PT 680, PT 690.
Term Typically Offered: Fall, Spring

This course is the third part of a three course series focusing on the acquisition and integration of knowledge and skills involved in developing and implementing a treatment plan based on sound evaluative findings for the patient with neurological dysfunction. In this course, the focus is on the pediatric patient with neurological dysfunction. Case presentation, video demonstrations, and actual patient contact will be used to develop evaluation, treatment, and problem-solving skills.
Note: Open to Physical Therapy Majors only.

PT 665. Musculoskeletal Patient Management III. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669, PT 695A. Corequiste: PT 663, PT 664, PT 668, PT 690.
Term Typically Offered: Fall, Spring

This course builds on the foundational intervention techniques established for management of the patient with musculoskeletal dysfunction in PT 625 and PT 645. It will address additional manual therapy skills and students will apply their developing skills under faculty supervision to patients referred from the Student Health Center. Students will be responsible for patient management of a case load including accurate documentation and submission of patient records to the Student Health Center.
Note: Open to Physical Therapy Majors only.

PT 668. Health Care Delivery in Physical Therapy II. 2 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 662, 669 and 695A.
Corequisite(s): PT 663, PT 664, PT 665, PT 680, PT 690.
Term Typically Offered: Fall, Spring

In this course, students will have professional practice behavior expectations and requirements previously introduced in other courses reinforced through the review of the American Physical Therapy Association documents: the Standard of Practice for Physical Therapy and the Code of Ethics, as well as the State of California's Physical Therapy Practice Act. Additionally, students will hear from other health care professionals on their expectations of the physical therapist's role on a health care team.
Note: Open to Physical Therapy majors only.

PT 669. Psychosocial Issues in Physical Therapy. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 662.
Term Typically Offered: Fall, Spring

This course examines psychological and social impact of and reactions to illness and physical disability. Explores elements of the psycho-social dynamics related to disability with a focus on adjustments required of the disabled and the provider. The course addresses social, cultural, personal, and familial factors which impact comprehensive rehabilitation in the clinical setting. Attention will be placed on interpersonal relationships between patients, family, health care providers, and society.
Note: Open to Physical Therapy majors only.

PT 680. Graduate Physical Therapy Seminar II. 1 Unit
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 662 and 669.
Corequisite(s): PT 663, PT 664, PT 665, PT 668, PT 690.
Term Typically Offered: Fall, Spring

This course, presented just prior to the final clinical internships, will review student's experiences in the curriculum and promote reflection on the professional practice of physical therapy. The course will review professional core values and expectations for clinical internships. The course will also review portfolio requirements to determine students' readiness to proceed into final internships. In addition, students will be expected to develop five year personal professional development plans.
Note: Open to Physical Therapy majors only.

PT 689. Doctoral Project Proposal. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, and PT 646
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 662, and PT 669
The Doctoral Project Proposal must demonstrate students' understandings of the application of current evidence-based practice in a multicultural and complex health care environment. The proposal must be of sufficient rigor to ensure students' demonstrations of critical and independent thinking and abilities to interpret the research literature and apply to current physical therapist practice. The proposal includes a written document and oral defense. Open to Physical Therapy Majors only.
Credit/No Credit

PT 690. Doctoral Project/Culminating Experience. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620,PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 663, PT 664, PT665, PT 668, PT 669, PT 680, and PT 695A
Term Typically Offered: Fall, Spring

The Doctoral Project/Culminating Experience may include evidence-based practice projects, clinical research projects, or case reports consistent with the Chancellor's Office Executive Order. Culminating events must demonstrate students' understandings of the application of current evidence-based practice in a multicultural and complex health care environment. They must be of sufficient rigor to ensure students' demonstrations of critical and independent thinking and abilities to interpret the research literature and apply to current physical therapist practice.

PT 695A. Clinical Experience I. 6 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638,640, 644, 645, 646, 648, 669 and 689.
Term Typically Offered: Fall, Spring, Summer

The first full-time clinical experience in the Doctor of Physical Therapy (DPT) program curriculum totals 12 weeks of clinical education in an assigned clinical setting under the direct supervision of a licensed physical therapist. Students improve and refine evaluation and treatment abilities developed during their first two academic years and integrate knowledge and skills in a selected variety of clinical settings.
Note: Open to Physical Therapy majors only who have successfully completed the first five semester of the DPT curriculum.

Credit/No Credit

PT 695B. Clinical Experience II. 6 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 669, 689, 663, 664, 665, 668, 690 and 695A.
Term Typically Offered: Fall, Spring, Summer

The second full-time clinical education experience in the Doctor of Physical therapy (DPT) program curriculum totals 12 weeks of clinical education in an assigned clinical setting under the direct supervision of a licensed physical therapist. Students improve and refine patient management skills and abilities developed during their first seven semesters.
Note: Open to Physical Therapy majors only who have successfully completed the first seven semesters of the DPT curriculum.

Credit/No Credit

PT 695C. Clinical Experience III. 6 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 669, 689, 663, 664, 665, 668, 690, 695A, and 695B.
Term Typically Offered: Fall, Spring, Summer

The third full-time clinical education experience in the Doctor of Physical therapy (DPT) program curriculum totals 12 weeks of clinical education in an assigned clinical setting under the direct supervision of a licensed physical therapist. Students improve and refine patient management skills and abilities developed during their first eight semesters.
Notes: Open to Physical Therapy majors only who have successfully completed the first eight semesters of the DPT curriculum.

Credit/No Credit

PT 696J. Graduate Physical Therapy Seminar IJ Adv. Biomechanics I. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630, PT 604, PT 606, PT 614, PT 618, PT 620, PT 622, PT 632, PT 634, PT 636, PT 638, PT 624, PT 625, PT 626, PT 640, and PT 646
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 669, and PT 662
This elective is designed to prepare students to run a gait analysis clinic in the biomechanics laboratory. The course is one unit of lecture and one unit of lab, and covers the topics of assessment of balance, lower extremity strength assessment, special tests, and running analysis from both the research 'gold standard' as well as the clinically feasible perspective with a particular focus on running.
Note: Fall semester only

Doctor of Physical Therapy

Total units required for Doctorate: 105-113

Program Description

Physical Therapy at Sacramento State is one of several professional curricula in the College of Health and Human Services. The program complements others in the College and provides opportunities for scholarship, instructional collaboration, and interaction.

The doctoral curriculum of 3 years, including summers, encompasses didactic instruction, laboratory experience, and clinical education. The clinical component is thirty-six weeks of full-time, off-campus clinical internships.

Admission Requirements

To be eligible for admission consideration, students must meet the following criteria:

- Attain a baccalaureate degree from an accredited college or university prior to enrollment in the program;
- Eligible for admissions as a graduate student in good standing;
- Complete nine of the eleven prerequisite courses by the application deadline. The two remaining courses must be completed in the Spring and/or Summer semester (a maximum of one of these course may be completed during the summer);
- Complete a minimum 100 total hours of work/volunteer experience in an impatient and an outpatient setting;
- Three letters of recommendation, one from a college professor and two from licensed physical therapists;
- GRE taken within five years of application.

Admission Procedures

Submit the following applications:

1. Physical Therapist Centralized Application Service (PTCAS) online application by the listed deadline;
2. CSU, Sacramento's Department of Physical Therapy, DPT Supplemental Application, by the listed deadline.

Both applications are accessible via the department website. Following the initial screening, the top 100 applicants will be invited to interview and to submit a CSU Mentor application.

Applicants will submit the following requirements with their PTCAS application:

- Official transcripts from all colleges and universities that you have attended.
- Verification of completing a minimum 100 total hours of work/volunteer experience in at least one 'Inpatient' and one 'Outpatient' setting. Each setting must have at least twenty-five (25) hours of exposure. All PT experience hours must be completed and verified by the deadline.
- Three letters of recommendation, two from U.S. licensed physical therapists and one from a college professor.
- Graduate Record Examination (GRE) scores taken within five years of applying to the DPT program using code: 7588.
- Applicants who do not possess a baccalaureate degree from a post-secondary institution where English is a principal language must take the TEST of English as a Foreign Language (TOEFL). Submit TOEFL scores with your PTCAS application.
- Applicants who previously attended another professional entry-level physical therapy program must submit a letter from the director of the previous physical therapy program designating their academic standing *(if applicable)*.

Admission is granted on a competitive basis. Meeting the admission requirements does not guarantee acceptance into the DPT program.

Selection Procedures

Application materials are reviewed by the DPT Admissions Committee. During the first screening applications are reviewed for the prerequisite coursework GPA, recommendation forms from two licensed physical therapists and one academic professional, GRE scores, volunteer hours, and additional background criteria. Based on the results of this first screening, the top applicants will be invited for a panel interview. The top thirty-two applicants along with alternates will be notified of their status within two weeks of the final interviews.

Additional Information

Health Requirements

Students admitted to the graduate program in the Department of Physical Therapy are required to have specified immunizations by the Student Health Center or a private physician prior to any clinical participation. Complete information on health requirements will be provided to incoming students.

Costs and Fees

In addition to University tuition and fees, students can be expected to incur costs of approximately $1,800 per year for books, and supplies. Students are required to assume responsibility for transportation and housing costs for clinical internships which may be anywhere in a contracted site in California.

Health Insurance, Transportation Schedules, CPR Certification, and Background Screens

All students accepted into the graduate program in the Department of Physical Therapy must provide their own health insurance and transportation to clinical facilities. Major medical health insurance is mandatory prior to beginning clinical experiences. CPR certification (Basic Adult and Pediatric for healthcare providers) must be maintained according to the requirements of the American Heart Association or American Red Cross. Students will be required to complete a criminal background check prior to clinical placements. A positive criminal history may limit or preclude student participation in the clinical courses.

Required Prerequisite Courses (41-42 units)

Prerequisite coursework must have been completed at an accredited college or university with a minimum grade of 'C' or better.

Code	Title	Units
Prerequisite Courses Required for enrollment consideration (41-42 Units)		
Human Anatomy with Lab [1]		
Select one of the following:		4
BIO 22	Introductory Human Anatomy	
or BIO 122	Advanced Human Anatomy	
BIO 25 & BIO 26	Human Anatomy and Physiology I Human Anatomy and Physiology II	
Human Physiology with Lab [1]		
Select one of the following:		4
BIO 25 & BIO 26	Human Anatomy and Physiology I Human Anatomy and Physiology II	
BIO 131	Systemic Physiology	
Psychology		
PSYC 2	Introductory Psychology	3
Select one additional Psychology course similar to:		3
PSYC 148	Child Psychology	
PSYC 150	Psychological Aspects of Aging	
PSYC 151	Psychological Aspects of Death and Dying	
PSYC 168	Abnormal Psychology	
Statistics		
STAT 1	Introduction to Statistics	3 - 4
or STAT 50	Introduction to Probability and Statistics	
Chemistry I with Lab		
CHEM 1A	General Chemistry I	5
or CHEM 6A	Introduction to General Chemistry	
Chemistry II with Lab		
CHEM 1B	General Chemistry II	5
or CHEM 6B	Introduction to Organic and Biological Chemistry	
Physics I with Lab		
PHYS 5A	General Physics: Mechanics, Heat, Sound	4
Physics II with Lab		
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics	4
Kinesiology (with lab preferred) [1]		

KINS 151	Kinesiology	3
or KINS 151A	Biomechanics	
or KINS 151D	Applied Kinesiology and Biomechanics	
Physiology of Exercise (with lab preferred) [1]		
KINS 150	Exercise and Sport Physiology	3
or KINS 152	Physiology Of Exercise	
Total Units		41-42

[1] Anatomy, Physiology, Kinesiology/Biomechanics, and Exercise Physiology must have been completed within the last ten (10) years of the application deadline for the DPT program.

Minimum Units and Grade Requirement for the Degree

Units Required for the DPT: 105-114

Minimum Cumulative GPA: 3.0; students must earn a grade of 'B' in all courses taken in the Doctor of Physical Therapy Program.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure may begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements and achieved classified status;
- successfully completed all courses with a grade of 'B' or higher in the first 4 terms with a minimum of 3.0 ('B') overall grade point average in all DPT graduate level coursework;
- passed (with a grade of 'B' or higher) a Graduate Writing Intensive (GWI) course (PT 608) and
- passed the faculty candidacy assessment.

Program Requirements

Code	Title	Units
First Fall Semester (16 Units)		
BIO 633	Human Gross Anatomy for Physical Therapists	3
PT 600	Pathokinesiology	5
PT 602	Evidence Informed Practice I	3
PT 608	PT/Patient/Professional Interactions	2
PT 630	Pathophysiology	3
First Spring Semester (16 Units)		
PT 604	Principles of Human Movement	2
PT 606	Therapeutic Measurements and Techniques	4
PT 614	Neuroscience for Physical Therapy	3
PT 618	Foundations for Patient Management	1
PT 620	Physical Therapy Interventions I	3
PT 622	Evidence Informed Practice II	3
First Summer Semester (8 Units)		
PT 632	Pharmacology for Physical Therapists	2
PT 634	Diagnostic Imaging for Physical Therapy	2
PT 636	Geriatrics/Gerontology for Physical Therapists	2
PT 638	Health, Wellness and Ergonomics in Physical Therapy	2
Second Fall Semester (17 Units)		
PT 624	Adult Neuromuscular Patient Management I	4
PT 625	Musculoskeletal Patient Management I	4
PT 626	Clinical Agents	3
PT 640	Physical Therapy Interventions II	3
PT 646	Acute Care and Cardiopulmonary Physical Therapy	2
PT 660A	Graduate Physical Therapy Seminar 1A: Research [1]	1
Second Spring Semester (21 Units)		
PT 627	Physical Therapy Educator	1
PT 644	Adult Neuromuscular Patient Management II	4
PT 645	Musculoskeletal Patient Management II	4
PT 648	Health Care Delivery in Physical Therapy I	2
PT 660B	Graduate Physical Therapy Seminar IB: Research [1]	1
PT 660D	Graduate Physical Therapy Seminar ID: Electrotherapeutics [1]	2
PT 660G	Certified Strength and Conditioning Specialist (CSCS) [1]	2
PT 662	Differential Diagnosis in Physical Therapy	3
PT 669	Psychosocial Issues in Physical Therapy	1
PT 689	Doctoral Project Proposal	1
Second Summer Semester (6 Units)		
PT 695A	Clinical Experience I	6
Third Fall Semester (17 Units)		
PT 660C	Graduate Physical Therapy Seminar IC: Research [1]	1
PT 660E	Graduate Physical Therapy Seminar IE: NeuroPediatric Laboratory [1]	2
PT 660F	Graduate Physical Therapy Seminar IF: Adult Neuromuscular Laboratory [1]	2
PT 663	Integumentary Patient Management	2
PT 664	Neuropediatric Patient Management	2
PT 665	Musculoskeletal Patient Management III	3
PT 668	Health Care Delivery in Physical Therapy II	2
PT 690	Doctoral Project/Culminating Experience	3
Third Spring Semester (6 Units)		
PT 695B	Clinical Experience II	6
Third Summer Semester (7 Units)		
PT 680	Graduate Physical Therapy Seminar II	1
PT 695C	Clinical Experience III	6
Total Units		114

[1] Elective Course. A minimum of 2 elective units is required.

Public Health

Department of Public Health

Program Description

The academic area of study in Public Health is part of the total program of the College of Health and Human Services. Students pursue a Public Health concentration leading to a degree with specialization and job skills applicable to one of three professional areas of study: community health, healthcare administration, or occupational health and safety. The faculty supports the idea of focused academic preparation in each concentration such that Public Health BS graduates will have job appeal in their chosen professional field.

Students can expect to be involved, both in class and field experiences, in areas that deal with significant issues within the specific concentration,

such as health care costs, consumer health issues, alcohol and other drugs, human sexuality, unintentional injury causes and prevention, and other personal, occupational, and community health and safety issues as well as management, business and administration skills in the health care administration option.

Students interested in pursuing advanced degrees in the Public Health will find that the BS program provides the foundation upon which to undertake a MPH or MS in community, health care administration, or occupational health and safety degree programs.

The Public Health Bachelor of Science program at Sacramento State is a highly sought after degree. Due to the large number of applications, the program is currently impacted. Students wishing to become Public Health majors must complete a series of required lower division courses and apply for admission to the program. Check the Department website (http://www.csus.edu/hhs/khs/hlsc/impaction.html) for requirements, and it is highly recommended that interested students speak with the Public Health academic advisor.

Degree Programs

BS in Public Health (Community Health Education) (http://catalog.csus.edu/colleges/health-human-services/bs-in-public-health/)

BS in Public Health (Health Care Administration) (p. 728)

BS in Public Health (Occupational Health and Safety) (p. 730)

Master of Public Health (p. 732)

Minor in Public Health (p. 733)

Minor in Occupational Health and Safety (p. 733)

Special Features

- A key feature of the program involves the diversity of the field experiences available. Students may select from state, county, city, or local health and safety related agencies, hospitals, as well as any private voluntary not-for-profit agency. This on-site experience continues to be a valuable professional experience that may lead to employment.
- Employment opportunities can be identified in any of the school/community health/safety/health care related programs, as well as in the private sector. Employment opportunities often evolve from the networking that develops naturally from students' field experiences.
- Because of the unique location of the University in the state capital, students majoring in Public Health benefit from professional health resources of numerous state and local health agencies that include, but are not limited to the Sacramento County Department of Health and Human Services, California State Departments of Health Services, Mental Health, Aging and Alcohol and Drug Abuse. A variety of health/safety related agencies provide opportunities for field work experiences, internships, part-time, and summertime employment.
- Courses are offered on a schedule to accommodate both full-time and part-time students, including night courses and online options.
- The faculty consists of members with specialized preparation in the Public Health field. Our full-time faculty is augmented by the use of adjunct instructional staff selected from the above mentioned Public Health agencies.

Note: Students who have completed an allied health licensure program and who wish to obtain a BS degree in Public Health at California State University, Sacramento, should contact the Sacramento State Outreach Office for application and course requirements.

Career Possibilities

Alcohol Education Consultant · Community Health Educator · Community Program Director · Environmental Health & Safety Specialist · Family Planning Educator · Health Administration Assistant · Health Program Coordinator · Human Resources Specialist · Loss Control Consultant · Occupational Safety Specialist · OSHA Compliance · Patient Administration Specialist · Public Health Educator · Public Health Investigator

Contact Information

Michael Mink, Chair
Barbara Riley, Administrative Coordinator
Solano Hall 3002
(916) 278-6441
Department of Public Health Website (https://www.csus.edu/college/health-human-services/public-health/)

Faculty

AINSWORTH, DALE W.

DIAZ, HEATHER J.

MANSYUR, CAROL L.

MATTHEUS, CHARL

MINK, MICAHEL D.

PEREZ, SUSAN L.

WOODWARD, PATRICIA J.

HLSC 222. Health Communication Strategies. 3 Units
Prerequisite(s): Master of Public Health major or instructor permission.
Term Typically Offered: Fall only

Provides students with knowledge and understanding of health communication theory and research. Students will examine the effects of media, including mass media, social media, and participatory media, in promoting or impeding public health goals and achievements. This course emphasizes the importance of public engagement and the development of effective communication with public health stakeholders including consumers, community goals, policy makers, health care providers, news media, and the general public.

HLSC 224. Program Planning. 3 Units
Prerequisite(s): Master of Public Health majors or instructor permission and HLSC 201
Term Typically Offered: Fall only

Covers the elements needed for successfully planning and implementing a health promotion program including the application of health behavior theory and program planning models. Students will apply concepts of social and physical determinants of health, community structure on health status, social/health policies of communities and personal health behaviors in program planning design and implementation.

HLSC 295. Seminar and Practicum Experience. 3 Units
Prerequisite(s): Master of Public Health or instructor permission
Term Typically Offered: Spring only

Provides students with in-depth supervised experience in an approved organization during their graduating semester. The practicum will require students to complete an applied practice experience related to a public health issue that is a focus within the organization. Seminars will discuss and review the integration of core public health concepts with the practicum. Students will create materials that demonstrate the analysis, synthesis, and intersection of course work and practicum work, while demonstrating mastery of the broad field of public health. Field Trip.
Credit/No Credit
Field trip(s) may be required.

PUBH 50. Healthy Lifestyles. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Examines the concepts of: health and wellness; the determinants of health and wellness; and the concept of self-responsibility for health and wellness. These health and wellness concepts shall be applied to the areas of: mental wellness, nutrition, fitness, human sexuality, and drugs. The lecture/discussion format provides for a sharing of views regarding the integrated concepts of health that emphasizes the physical, mental, emotional, social, spiritual, and environmental factors that influence an individual's health status.

PUBH 98. Health Science ProSeminar. 3 Units
Term Typically Offered: Fall, Spring

Potential and beginning Health Science students become oriented to the Health Science discipline. They will acquire and develop the knowledge and understanding needed to fulfill the Health Science major learning outcomes. Students will develop their individual learning plans designed to assure fulfillment of the Health Science major, General Education, and University graduation requirements.

PUBH 100. Fundamentals of Safety and Health. 3 Units
Prerequisite(s): must be a Health Sciences or a Fire Service Management major or minor to enroll in this class
Term Typically Offered: Fall, Spring

Explores global and national issues in occupational and non-occupational safety and health. Subjects include motor vehicle, consumer, workplace, fire, school, and home safety. Examines concepts and principles related to the cause, control, and mitigation of unintentional injuries and illnesses. Emphasizes the development, implementation, and integration of effective safety and health program strategies in the prevention and control of loss.

PUBH 106. Occupational Health. 3 Units
Prerequisite(s): Health Science majors or minors only, or instructor permission.
Term Typically Offered: Spring only

Concepts of occupational health as they pertain to appraising and controlling occupational health hazards, including occupational diseases, chemical, biological, and physical agents. Discusses techniques for the recognition, evaluation, prevention, and control or occupational health hazards.

PUBH 107. Occupational Safety. 3 Units
Prerequisite(s): Health Science majors or minors only; or instructor permission.
Term Typically Offered: Spring only

Examines common hazards and problems encountered in the workplace, including concepts and principles related to the control and mitigation of occupational safety hazards. Emphasizes the development, implementation, and integration of effective occupational safety and health program components.

PUBH 108. Occupational Health and Safety Laws and Regulations. 3 Units
Prerequisite(s): Health Science majors or minors only; or instructor permission.
Term Typically Offered: Fall only

Overview of regulatory agencies involved in occupational health and safety and their functions in the enforcement of regulation and/or compliance of safety laws. Special emphasis on Cal/OSHA. Other topics: application of surveillance, research, control technology, and trained personnel to maintain compliance. Recognizes that strategies to achieve a safe workplace includes an analysis of economic and employment impacts on the employer.

PUBH 109. Cause and Control of Occupational Loss. 3 Units
Prerequisite(s): Health Science majors or minors only; or instructor permission.
Term Typically Offered: Fall only

Study of the characteristics, causes, and control of occupational loss; influence of the work environment and system structure on incident outcomes; and analysis of occupational injuries and illnesses through the application of incident investigation and system safety techniques. Course will use occupational injuries and illnesses to focus on the process of problem identification and analysis, including the development and implementation of control measures.

PUBH 110. Issues in Occupational Health and Safety. 3 Units
Prerequisite(s): HLSC 100 or instructor permission
Term Typically Offered: Fall, Spring

Examines current and emerging issues in occupational health and safety, including historical, philosophical, and conceptual factors that serve as a basis for predicting, understanding, and resolving occupational health and safety issues. Examples include: Issues in high hazard industries, special populations at risk, emerging technologies, occupational hazards, and traumatic injuries.

PUBH 112. Disease Prevention. 3 Units
Prerequisite(s): Health Science majors or minors only; or instructor permission
Term Typically Offered: Fall, Spring

Surveys the current methods of promoting high level wellness through a preventive medicine approach for the promotion of more enjoyable and productive living. Attention directed toward the specific methods of promoting personal health through various current methodologies including the 'holistic health' movement. Meets the needs of major students as well as those in allied fields such as nursing, social work and other interested students.

PUBH 114. Human Ecology and Health. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Emphasizes the social and natural environmental influences that have a direct impact upon the health of the individual. Primary consideration is directed to an analysis of health as influenced by a person's interaction with his/her environment.

PUBH 116. Public Health Administration and Policy. 3 Units
Prerequisite(s): Must be a Health Science or Gerontology major or minor
Term Typically Offered: Fall, Spring

Understanding of the management of public health programs; pattern of health organization; the scope of public health concern of environmental health and health service marketing. Consideration of the various administration factors involved in the practice of public health by department, division or agency unit.

PUBH 117. Global Health. 3 Units
Prerequisite(s): Health Science majors or minors only; or instructor permission
Term Typically Offered: Fall, Spring

Introduction to the globalization of public health and the critical health issues facing all citizens of the world, with special emphasis on health concerns of developing countries. Topics include global malnutrition, primary health care, maternal and child health, international environmental health, comparative health care systems, epidemiology and international health threats, and sustainable health and development programs undertaken by nongovernmental organizations.

PUBH 118. Community Health. 3 Units
Prerequisite(s): Must be a Health Science major or minor
Term Typically Offered: Fall, Spring

Insights into comprehensive planning for health by community health agencies and organizations in implementing their programs.

PUBH 119. Community Health Education. 3 Units
Prerequisite(s): Must be a Health Science major or minor with a minimum 'C' grade or better in HLSC 118 or have instructor permission
Term Typically Offered: Fall, Spring

In addition to the current practice in community health education, examines the philosophical, conceptual and theoretical constructs that serve as a basis for understanding, predicting and facilitating change in health-related behavior. Explores the use of health communication processes, selected instructional media, health planning, community organization techniques, and mass communications in community health education.

PUBH 122. Health Psychology. 3 Units
Prerequisite(s): Must be a Health Science or Child Development major or minor
Term Typically Offered: Fall, Spring

Introduction to behavioral and social factors which influence health and illness. Explores the causes of premature death, the relationships between personality and health, and the development of health problems. Includes an overview of psychological principles in behavioral medicine, physiological foundations of health psychology, the role of emotions in immune function, and topical theories of, techniques for, and research on how psychology can help people live longer, healthier lives.

PUBH 124. Consumer Health Education. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Introduction to the processes and methods of conducting health education within the clinical setting and the integration of educational theory and applied health knowledge specific to common health disorders. Topics to include the dimensions of quackery in health treatments, efficacy of safety standards, and the elements of deceptive advertising and bogus claims. Emphasis on how to distinguish health facts from bogus claims, make effective consumer decisions of health care services, and the basics of self-health care.

PUBH 130. Alcohol and Other Drugs. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Various aspects of drug usage will be studied with emphasis on the role of health education in reducing abuse. This course is designed to explore contemporary issues related to alcohol and other drugs. The course will examine the physiological, psychological, social, and cultural impact of licit and illicit drugs.

PUBH 134. Understanding Human Sexuality. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

This course is designed to explore gender and social issues associated with human sexuality. The course will examine the impact of physiological, psychological, social, and cultural differences and similarities on the sexual health of diverse groups. The course will explore issues related to age, ability/disability, sexual identity, sexual myths, misconceptions, gender and gender expression.

PUBH 136. School Health Education. 2 Units
Prerequisite(s): CPR training; may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Provides teacher candidates, social workers, and nurses an understanding of the educational methods, processes, and content of the scope of health education as provided in the Framework for Health Instruction of the California State Department of Education. Offers an understanding of current problems related to personal, family and community health. General theories and organization for teaching health education will be discussed. Meets the requirement for teacher candidates under the SB2042.
Note: Not open to lower division students.

PUBH 144. Community Health Planning and Evaluation. 3 Units
Prerequisite(s): HLSC 118, HLSC 148; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X; or instructor permission; restricted to Health Science majors and minors.
Term Typically Offered: Fall, Spring

Introduces students to the process and practice of program planning and evaluation. Examines the social and physical determinants of health; the impact of the community structure on health status; and, the influence of personal health behavior on community health education practice. These concepts shall be applied in the planning, implementation, and evaluation of health education services.

PUBH 147. Health Data Analysis. 3 Units
Prerequisite(s): STAT 1, Health Science major or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to methods and statistical practices used in the health sciences. Emphasis on the methods of collection, analysis, interpretation, and presentation of health data. Conceptual learning will be facilitated by sessions using computational software.

PUBH 148. Epidemiology. 3 Units
Prerequisite(s): STAT 1 or instructor permission; Health Sciences or Biological Sciences major or minor.
Term Typically Offered: Fall, Spring, Summer

Designed to offer cognitive insights into community health epidemiology. Provides understanding of the study of the distribution and determinants of communicable, infectious and chronic disease, and of injuries in the human population.

PUBH 150. Aging and Health. 3 Units
Prerequisite(s): Student must be admitted to the Health Science, Kinesiology, or Gerontology major or minor, or have instructor permission to enroll in this course.
Term Typically Offered: Fall, Spring

Designed to introduce students to the basic aging and health concerns of older people and to broader issues of aging, health and society. Examines the: demography of the aging population, biological theories of aging, social and psychological aspects of aging. Includes such issues as nutrition, drugs, exercise, sexuality, patterns of health services utilization, institutionalization, alternatives to the provision of long-term care in institutions, and dying.

PUBH 151. Introduction to the U.S. Healthcare System. 3 Units
Prerequisite(s): Student must be admitted to the Health Science major or minor, or have instructor permission to enroll in this course.
Term Typically Offered: Fall, Spring

This course presents an overview of the historical, structural, and operational aspects of the nation's healthcare systems. Students will examine the factors that shape public policy regarding the allocation of health care resources and will gain an understanding of the relationship between healthcare costs, quality of care, and the access to health services. The influence of professional associations, medical technology, and social values in health reform initiatives is discussed.

PUBH 152. Healthcare Systems and Operations. 3 Units
Prerequisite(s): Health Science majors and minors only; or instructor permission
Term Typically Offered: Fall, Spring

Introduce students to a broad range of issues related to managing healthcare organizations. Students will explore areas such as organizational behavior and theory applied to healthcare organizations and the role of administrators in planning, organizing, and overseeing the delivery of healthcare services. Organizational principles and decision-making strategies are applied to functional areas of health administration including finance, human resources, performance improvement, strategic planning, and healthcare information systems.

PUBH 153. Administration of Healthcare Organizations. 3 Units
Prerequisite(s): Health Science majors only
Term Typically Offered: Fall, Spring

Introduction to the study of healthcare administration. Examines the broad field of healthcare administration. Topics include healthcare management, leading healthcare professionals, strategic planning in healthcare, healthcare budgeting and finance, healthcare insurance, healthcare marketing, healthcare information technology, healthcare ethics and law, and healthcare fraud and abuse.

PUBH 154. Healthcare Organizational Behavior. 3 Units
Prerequisite(s): Health Science (Health Care Administration) majors only
The study of healthcare organizational behavior including individual and group dynamics in the context of healthcare settings. Examines the impact of organizational contexts on the behavior of individuals and groups in healthcare organizations. Topics include individual motivation, power and influence, leadership theory, stress in the workplace, decision-making, conflict and negotiation, group dynamics, and change planning in healthcare.

PUBH 155. Introduction to Healthcare Process Improvement. 3 Units
Prerequisite(s): Health Science majors only
Term Typically Offered: Fall, Spring

An exploration of the basic principles and techniques of process improvement in healthcare through a range of topics, including measurement of health care system performance to creating high-quality services that result in organizational improvement and customer satisfaction.

PUBH 195. Fieldwork - Health or Safety. 2 - 4 Units
Prerequisite(s): Permission of faculty advisor, program coordinator and Department chair.
Term Typically Offered: Fall, Spring, Summer

To obtain insights into the practical application of the classroom teachings, fieldwork experiences are required of those preparing for a career in community health education or other areas of health and safety studies.
Note: Submit an application for field work no later than the fourth week of the semester prior to taking HLSC 195. May be repeated once for credit.

Credit/No Credit

PUBH 196. Experimental Offerings in Health Science. 1 - 3 Units
Term Typically Offered: Fall, Spring

Undergraduate seminar designed to provide an in-depth examination and discussion of current topics in the area of personal and community health and safety.

PUBH 199. Special Problems. 1 - 3 Units
Prerequisite(s): Permission of faculty under whom individual work will be conducted, program coordinator, and Department chair; HLSC 116, HLSC 118, HLSC 119, and HLSC 148 are strongly recommended.
Term Typically Offered: Fall, Spring

Note: Open only to HLSC majors and minors who appear competent to conduct independent work such as

Credit/No Credit

PUBH 201. Behavioral and Social Sciences in Public Health. 3 Units
Prerequisite(s): MPH major or instructor approval.
Term Typically Offered: Fall, Spring

Psychological and social concepts and models relevant to population health are reviewed and critiqued. The course will enable students to describe core theoretical perspectives from each of the social science disciplines of psychology, sociology, and anthropology. Students will learn how to select and apply appropriate social and behavioral models to the design of public health interventions and policies. The course will also cover the critical interrelationships among social determinants, environmental influences, behavioral risk factors, and health disparities.

PUBH 202. Ecological Determinants of Human Health. 3 Units
Term Typically Offered: Fall, Spring

This course will explore both natural and built environments and their impact and consequences on human health. It will examine the social, structural & political determinants affecting ecology, examining social & environmental justice. An emphasis will be placed on unintentional consequences of human interactions with respect to their physical environment. The course will examine current national and international issues in environmental health, including but not limited to anthropogenic climate change, biodiversity loss, ocean acidification, and carbon footprinting.

PUBH 203. Public Health Management and Leadership. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

This course examines the role of management and leadership practices in public health organizations and draws on theory to explore the role of public health leaders in planning, budgeting, staffing, and controlling performance. Students will explore relevant leadership topics such as organization development, employee motivation, and emotional intelligence. The nuances of leading in a government agency are also considered. These topics are set in the context of ethical management and leadership practices.

PUBH 204. Healthcare Systems, Structures, and Policies. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

This course explores health care systems from a macro perspective, including historical development, information technology, healthcare policy and resource allocation, the healthcare workforce, issues surrounding access to healthcare, prevention in healthcare, population health and medicine, various delivery models, and public health¿s partnership with healthcare. Comparisons are made between the US health care system and other nations in relation to costs and quality.

PUBH 207A. Health Research Methods and Analysis (A). 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Introduces students to the fundamentals of research methodology in applied epidemiology, biostatistics and evaluation research. Students learn quantitative, qualitative, mixed method and participatory approaches to research, as well as ethical behavior in conducting research. Through the mix of texts, articles from the public health literature and course work, students will build skills for conducting research and analysis across a variety of public health applications.

PUBH 207B. Health Research Methods and Analysis (B). 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Explores intermediate and advanced research methods in applied epidemiology, biostatistics and evaluation research. Students learn about tools for describing central tendency and variability in data, methods for performing inference on population parameters via sample data, statistical hypothesis testing and its application to group comparisons, issues of power and sample size in study design, and sampling techniques. Students will also examine common research methods used in program evaluation.

PUBH 220. Health Policy Analysis. 3 Units
Prerequisite(s): MPH major or instructor approval.
Term Typically Offered: Fall, Spring

Students develop strategies for the analysis of health policy issues and learn to communicate effectively in the policy environment. Students gain a local, state, and federal perspective on the historical and political context of health policy and its effects on public health and health care systems, with an emphasis on population health outcomes.

PUBH 221. Strategies for Community Engagement. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Students master the concepts and practices of community engagement, including defining a community, developing community coalitions, forming multi-sector partnerships, social network theory, community-based participatory research, the community engagement continuum of impact, trust, and readiness, models of community change/intervention, community psychology, and community organizing. Students will apply these concepts in a culminating semester project that includes developing a community engagement strategy to address a health issue. Ethics in community engagement underlies the basic approach taken throughout the course.

PUBH 222. Methods of Health Promotion. 3 Units
Prerequisite(s): Master of Public Health major or instructor permission.
Term Typically Offered: Fall, Spring

This course explores theories of health communication, teaching and learning, marketing and advertising, and health behavior to prepare students to design effective health promotion interventions. Students will learn to utilize multiple methods of health promotion, including presentation planning, social marketing, material design, and mediated communication. This course also emphasizes the importance of public engagement and the development of effective communication with public health stakeholders including consumers, community groups, policy makers, health care providers, news media, and the general public.

PUBH 223. Leadership in Public Health Practice. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Examines the role of leadership in public health practice at the program, agency, and community-organization level, with an emphasis on leading community health improvement efforts. Students become aware of their leadership style through assessment and experiential activities, while learning to adapt their approach to leading across multiple settings. Particular emphasis is placed on leading groups and teams in practice settings often encountered by public health professionals.

PUBH 224. Program Planning and Evaluation. 3 Units
Prerequisite(s): Master of Public Health majors or instructor permission. Field trip.
Term Typically Offered: Fall, Spring

Covers the essential elements of planning, implementing, and evaluating a health promotion program. Aspects of the course include the application of health behavior theory and program planning models, consideration of the social and physical determinants of health, structural influences on personal health status, and the influences of social and health policy on communities.

PUBH 225. Topics in Public Health Seminar. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Summer only

Introduces students to a variety of pressing issues impacting current public health practice and provides an opportunity to explore one or more of those issues in greater depth. Students conduct research using multiple sources on a variety of topics, present findings to the class, and create a solution-centered project with potential applications for practice.

PUBH 295. Public Health Practicum. 3 Units
Prerequisite(s): Master of Public Health major or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Provides students with an in-depth, supervised experience in an applied practice setting. Students explore broad areas of public health practice and conduct supervised field research on a specific area of professional interest. Students further develop expertise in an area of interest by providing consultation and technical assistance to a project or organization engaged in public health work.
Credit/No Credit

PUBH 500. Public Health Capstone. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Guides students through a culminating experience in the Master of Public Health program. Seminars discuss and review the integration of core public health concepts and concentration competencies. Students create materials that demonstrate the analysis, synthesis, and intersection of course work, while demonstrating mastery of the broad field of public health.

BS in Health Science (Health Care Administration)

This program is scheduled for discontinuation. Please see the BS in Public Health (Health Care Administration) (p. 728)
Units required for Major: 58
Total units required for BA: 120

Program Description

The academic area of study in Health Science is part of the total program of the College of Health and Human Services. Students pursue a Health Science concentration leading to a degree with specialization and job skills applicable to one of three professional areas of study: community health, healthcare administration, or occupational health and safety. The faculty supports the idea of focused academic preparation in each concentration such that Health Science BS graduates will have job appeal in their chosen professional field.

Students can expect to be involved, both in class and field experiences, in areas that deal with significant issues within the specific concentration, such as health care costs, consumer health issues, alcohol and other drugs, human sexuality, unintentional injury causes and prevention, and other personal, occupational, and community health and safety issues as well as management, business and administration skills in the health care administration option.

The Health Science Bachelor of Science program at Sacramento State is a highly sought after degree. Due to the large number of applications, the program is currently impacted. Students wishing to become Health Science majors must complete a series of required lower division courses and apply for admission to the program. Check the Department website (http://www.csus.edu/hhs/khs/hlsc/impaction.html) for requirements, and it is highly recommended that interested students speak with the Health Science academic advisor.

Note: Students graduating with a BS in Health Science (all concentrations) will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Minimum Grade Requirement

All courses must be completed with at least a 'C' grade.

Additional Information

Repeat Policy: Health Science majors and minors can only repeat Health Science courses one time if they receive less than a 'C.' Students must meet with their academic advisor before petitioning the department to repeat the course. Refer to the Repeat Policy section of the Sacramento State Catalog for additional information.

Credit by Examination: A student who seeks course credit by examination is to enroll in the course to be challenged. No course may be challenged after the first two weeks of the semester. The instructor of the course will conduct an assessment of the student's readiness for the challenge for credit examination. Refer to Credit by Examination section of the Sacramento State Catalog.

Advising: It will be necessary to work very closely with an advisor to complete the BS degree in a timely manner. Therefore, the Health Science faculty strongly recommends that all Health Science students consult with an advisor prior to enrollment for any course. This procedure should be followed each semester.

Program Requirements

Code	Title	Units
Required Lower Division Courses (16 Units)		
BIO 25	Human Anatomy and Physiology I	4
BIO 26	Human Anatomy and Physiology II	4
CHEM 6A	Introduction to General Chemistry [1]	5
STAT 1	Introduction to Statistics [1]	3
Required Upper Division Courses (15 Units)		
HLSC 118		3
HLSC 147		3
HLSC 148		3
HLSC 151		3
HLSC 195		3
Concentrations (27-31 Units)		

Select one concentration from the following:	27 - 31
Community Health Education	
Health Care Administration	
Occupational Health and Safety	
Total Units	58-62

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Note: Health Science courses depend upon concentration, permission of the faculty advisor, program coordinator, and department chair.

Concentration in Health Care Administration (27 units)

Code	Title	Units
ACCY 1	Accounting Fundamentals	3
ECON 1A	Introduction to Macroeconomic Analysis [1]	3
or ECON 1B	Introduction to Microeconomic Analysis	
HLSC 152		3
HLSC 153		3
MKTG 160	Principles of Quality Management	3
or HLSC 155		
MGMT 102	Business Communications	3
or COMS 103	Presentational Speaking in the Organization	
Organizational Behavior Competenies (6 Units)		
Select two of the following:		6
DS 101	Data Analysis for Managers	
HLSC 154		
HROB 101	The Management of Contemporary Organizations	
HROB 151	Management of Human Resources	
HROB 159	Special Topics in Organizational Behavior	
PSYC 108	Organizational Psychology	
Ethical Issues in Healthcare (3 Units)		
Select one of the following:		3
COMS 116	Intercultural Communication	
COMS 161	Health Communication	
PHIL 104	Bioethics [1]	
SWRK 151	Health Services and Systems [1]	
Total Units		27

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5 [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area Course C		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6-9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		36-39

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following option':
- If student chooses to take PHIL 104 or SWRK 151, they will meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Health Science (Occupational Health and Safety), BS in Health Science (Health Care Administration), or BS in Health Science (Community Health Education) are exempt from the Foreign Language Graduation Requirement.

BS in Health Science (Occupational Health and Safety)

This program is scheduled for discontinuation. Please see the BS in Public Health (Occupational Health and Safety) (p. 730)**.**
Units required for Major: 58-62
Total units required for BS: 120

Program Description

The academic area of study in Health Science is part of the total program of the College of Health and Human Services. Students pursue a Health Science concentration leading to a degree with specialization and job skills applicable to one of three professional areas of study: community health, healthcare administration, or occupational health and safety. The faculty supports the idea of focused academic preparation in each concentration such that Health Science BS graduates will have job appeal in their chosen professional field.

Students can expect to be involved, both in class and field experiences, in areas that deal with significant issues within the specific concentration, such as health care costs, consumer health issues, alcohol and other drugs, human sexuality, unintentional injury causes and prevention, and other personal, occupational, and community health and safety issues as well as management, business and administration skills in the health care administration option.

The Health Science Bachelor of Science program at Sacramento State is a highly sought after degree. Due to the large number of applications, the program is currently impacted. Students wishing to become Health Science majors must complete a series of required lower division courses and apply for admission to the program. Check the Department website (http://www.csus.edu/hhs/khs/hlsc/impaction.html) for requirements, and it is highly recommended that interested students speak with the Health Science academic advisor.

Note: Students graduating with a BS in Health Science (all concentrations) will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Minimum Grade Requirement

All courses must be completed with at least a 'C' grade.

Additional Information

Repeat Policy: Health Science majors and minors can only repeat Health Science courses one time if they receive less than a 'C.' Students must meet with their academic advisor before petitioning the department to repeat the course. Refer to the Repeat Policy section of the Sacramento State Catalog for additional information.

Credit by Examination: A student who seeks course credit by examination is to enroll in the course to be challenged. No course may be challenged after the first two weeks of the semester. The instructor of the course will conduct an assessment of the student's readiness for the challenge for credit examination. Refer to Credit by Examination section of the Sacramento State Catalog.

Advising: It will be necessary to work very closely with an advisor to complete the BS degree in a timely manner. Therefore, the Health Science faculty strongly recommends that all Health Science students consult with an advisor prior to enrollment for any course. This procedure should be followed each semester.

Program Requirements

Code	Title	Units
Required Lower Division Courses (16 Units)		
BIO 25	Human Anatomy and Physiology I	4
BIO 26	Human Anatomy and Physiology II	4
CHEM 6A	Introduction to General Chemistry [1]	5
STAT 1	Introduction to Statistics [1]	3
Required Upper Division Courses (15 Units)		
HLSC 118		3
HLSC 147		3
HLSC 148		3
HLSC 151		3
HLSC 195		3
Concentrations (27-31 Units)		
Select one concentration from the following:		27 - 31
Community Health Education		
Health Care Administration		
Occupational Health and Safety		
Total Units		58-62

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Note: Health Science courses depend upon concentration, permission of the faculty advisor, program coordinator, and department chair.

Concentration in Occupational Health and Safety (27 - 31 units)

Code	Title	Units
CHEM 6B	Introduction to Organic and Biological Chemistry	3 - 5
or CHEM 20	Organic Chemistry Lecture--Brief Course	
HLSC 100		3
HLSC 106		3
HLSC 107		3
HLSC 108		3
HLSC 109		3
Select three of the following:		9 - 11

BIO 39	Microbiology for Allied Health Students	
or BIO 139	General Microbiology	
ENVS 128	Environment and the Law	
ENVS 130	Environmental Toxicology	
ENVS 165	American Environmental History [1]	
FIN 138	Principles of Risk Management and Insurance	
PHYS 5A	General Physics: Mechanics, Heat, Sound [1]	
or PHYS 10	Physics In Our World	
Total Units		27-31

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5 [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area Course C		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9-12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		39-42

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following option':
- If student chooses to take ENVS 165, they will meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Health Science (Occupational Health and Safety), BS in Health Science (Health Care Administration), or BS in Health Science (Community Health Education) are exempt from the Foreign Language Graduation Requirement.

BS in Public Health (Community Health Education)

Pre-Major Requirements

Freshman or transfer students interested in the Public Health Major are admitted as Pre-Major Public Health students.

To declare the Public Health major, all students are required to complete the following grade and course requirements and submit a Declaration of Major form to the Public Health Department along with transcript copies:

1. An overall GPA of 2.5 and be in good academic standing.
2. Completion of the Pre-Major Required Courses, as identified in the Program Requirements, with a 'C' or better in each course. Only first or second attempts will be considered.
3. Completion of more than 45 units.

Additional Information

Repeat Policy: Health Science majors and minors can only repeat Health Science courses one time if they receive less than a 'C.' Students must meet with their academic advisor before petitioning the department to repeat the course. Refer to the Repeat Policy section of the Sacramento State Catalog for additional information.

Credit by Examination: A student who seeks course credit by examination is to enroll in the course to be challenged. No course may be challenged after the first two weeks of the semester. The instructor of the course will conduct an assessment of the student's readiness for the challenge for credit examination. Refer to Credit by Examination section of the Sacramento State Catalog.

Advising: It will be necessary to work very closely with an advisor to complete the BS degree in a timely manner. Therefore, the Health Science faculty strongly recommends that all Health Science students consult with an advisor prior to enrollment for any course. This procedure should be followed each semester.

Pre-Major Requirements

Freshman or transfer students interested in the Public Health Major are admitted as Pre-Major Public Health students.

To change to a Public Health major, all students are required to complete the follow grade and course requirements and submit a Declaration of Major form to the Public Health Department along with transcript copies:

1. An overall GPA of 2.5 and be in good academic standing.
2. Completion of the Pre-Major Required Courses with a 'C' or better in each course. Only first or second attempts will be considered.
3. Completion of more than 45 units.

Additional Information

Repeat Policy: Public Health majors can only repeat Public Health courses one time if they receive less than a 'C.' Students must meet with their academic advisor before petitioning the department to repeat the course. Refer to the Repeat Policy section of the Sacramento State Catalog for additional information.

Credit by Examination: A student who seeks course credit by examination is to enroll in the course to be challenged. No course may be challenged after the first two weeks of the semester. The instructor of the course will conduct an assessment of the student's readiness for the challenge for credit examination. Refer to Credit by Examination section of the Sacramento State Catalog.

Advising: It will be necessary to work very closely with an advisor to complete the BS degree in a timely manner. Therefore, the Public Health faculty strongly recommends that all Public Health students consult with an advisor prior to enrollment for any course. This procedure should be followed each semester.

Program Requirements

Code	Title	Units
Required Pre-Major (Lower Division) Courses (16 Units)		
BIO 25	Human Anatomy and Physiology I	4
BIO 26	Human Anatomy and Physiology II	4
CHEM 6A	Introduction to General Chemistry [1]	5
STAT 1	Introduction to Statistics [1]	3
Required Upper Division Courses (15-16 Units)		
PUBH 118	Community Health	3
PUBH 147	Health Data Analysis	3
PUBH 148	Epidemiology	3
PUBH 151	Introduction to the U.S. Healthcare System	3
PUBH 195	Fieldwork - Health or Safety	3 - 4
Concentrations (27-31 Units)		
Select one concentration from the following:		27 - 31
Community Health Education		
Health Care Administration		
Occupational Health and Safety		
Total Units		58-63

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Note: Public Health courses depend upon concentration, permission of the faculty advisor, program coordinator, and department chair.

Concentration in Community Health Education (27 units)

Code	Title	Units
PUBH 100	Fundamentals of Safety and Health	3
PUBH 112	Disease Prevention	3
PUBH 114	Human Ecology and Health	3
PUBH 116	Public Health Administration and Policy	3
PUBH 119	Community Health Education	3
PUBH 134	Understanding Human Sexuality	3
PUBH 144	Community Health Planning and Evaluation	3
PUBH 150	Aging and Health	3
Select one of from the following:		3
PUBH 117	Global Health	
PUBH 122	Health Psychology	
PUBH 124	Consumer Health Education	
PUBH 130	Alcohol and Other Drugs	
Total Units		27

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5 [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area Course C		3

C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (9 Units)	
Area D Course	3
Area D Course	3
Area D Course	3
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]	0
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	39

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Public Health (Occupational Health and Safety), BS in Public Health (Health Care Administration), or BS in Public Health (Community Health Education) are exempt from the Foreign Language Graduation Requirement.

BS in Public Health (Health Care Administration)

Units required for Major: 58-63

Total units required for BS: 120

Program Description

The academic area of study in Public Health is part of the College of Health and Human Services. Students pursue a Public Health concentration leading to a degree with specialization and job skills applicable to one of three professional areas of study: community health, healthcare administration, or occupational health and safety. The faculty supports the idea of focused academic preparation in each concentration such that Public Health BS graduates will have job appeal in their chosen professional field.

Students can expect to be involved, both in class and field experiences, in areas that deal with significant issues within general Public Health practice and within each concentration, such as health care costs and quality, consumer health issues, alcohol and other drugs, human sexuality, health promotion, health management and administration, unintentional injury causes and prevention, and other personal, occupational, and community health and safety issues.

The Public Health Bachelor of Science program at Sacramento State is a highly sought-after degree. Due to the large number of applications, the program has a pre-major status. Students wishing to become Public Health majors must complete a series of required lower division courses in order to be eligible to declare the major. Students should check the Department website (https://www.csus.edu/college/health-human-services/public-health/) for requirements and speak with the Public Health academic advisor to help with their academic plans.

Note: Students graduating with a BS in Public Health (all concentrations) will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Pre-Major Requirements

Freshman or transfer students interested in the Public Health Major are admitted as Pre-Major Public Health students.

To change to a Public Health major, all students are required to complete the follow grade and course requirements and submit a Declaration of Major form to the Public Health Department along with transcript copies:

1. An overall GPA of 2.5 and be in good academic standing.
2. Completion of the Pre-Major Required Courses with a 'C' or better in each course. Only first or second attempts will be considered.
3. Completion of more than 45 units.

Additional Information

Repeat Policy: Public Health majors can only repeat Public Health courses one time if they receive less than a 'C.' Students must meet with their academic advisor before petitioning the department to repeat the course. Refer to the Repeat Policy section of the Sacramento State Catalog for additional information.

Credit by Examination: A student who seeks course credit by examination is to enroll in the course to be challenged. No course may be challenged after the first two weeks of the semester. The instructor of the course will conduct an assessment of the student's readiness for the challenge for credit examination. Refer to Credit by Examination section of the Sacramento State Catalog.

Advising: It will be necessary to work very closely with an advisor to complete the BS degree in a timely manner. Therefore, the Public Health faculty strongly recommends that all Public Health students consult with an advisor prior to enrollment for any course. This procedure should be followed each semester.

Program Requirements

Code	Title	Units
Required Public Health (Lower Division) Courses (16 Units)		
BIO 25	Human Anatomy and Physiology I	4
BIO 26	Human Anatomy and Physiology II	4
CHEM 6A	Introduction to General Chemistry [1]	5
STAT 1	Introduction to Statistics [1]	3
Required Upper Division Courses (15-16 Units)		
PUBH 118	Community Health	3
PUBH 147	Health Data Analysis	3
PUBH 148	Epidemiology	3
PUBH 151	Introduction to the U.S. Healthcare System	3
PUBH 195	Fieldwork - Health or Safety	3 - 4
Concentrations (27-31 Units)		
Select one concentration from the following:		27 - 31
Community Health Education		
Health Care Administration		
Occupational Health and Safety		
Total Units		58-63

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Note: Public Health courses depend upon concentration, permission of the faculty advisor, program coordinator, and department chair.

Concentration in Health Care Administration (27 units)

Code	Title	Units
ACCY 1	Accounting Fundamentals	3
ECON 1A	Introduction to Macroeconomic Analysis [1]	3
or ECON 1B	Introduction to Microeconomic Analysis	
PUBH 152	Healthcare Systems and Operations	3
PUBH 153	Administration of Healthcare Organizations	3
MKTG 160	Principles of Quality Management	3
or PUBH 155	Introduction to Healthcare Process Improvement	
MGMT 102	Business Communications	3
or COMS 103	Presentational Speaking in the Organization	
Organizational Behavior Competenies (6 Units)		
Select two of the following:		6
DS 101	Data Analysis for Managers	
PUBH 154	Healthcare Organizational Behavior	
HROB 101	The Management of Contemporary Organizations	
HROB 151	Management of Human Resources	
HROB 159	Special Topics in Organizational Behavior	
PSYC 108	Organizational Psychology	
Ethical Issues in Healthcare (3 Units)		
Select one of the following:		3
COMS 116	Intercultural Communication	
COMS 161	Health Communication	
PHIL 104	Bioethics [1]	
SWRK 151	Health Services and Systems [1]	
Total Units		27

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5 [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area Course C		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6-9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		36-39

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following option':
- If student chooses to take PHIL 104 or SWRK 151, they will meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Public Health (Occupational Health and Safety), BS in Public Health (Health Care Administration), or BS in Public Health (Community Health Education) are exempt from the Foreign Language Graduation Requirement.

BS in Public Health (Occupational Health and Safety)

Units required for Major: 58-63

Total units required for BS: 120

Program Description

The academic area of study in Public Health is part of the College of Health and Human Services. Students pursue a Public Health concentration leading to a degree with specialization and job skills applicable to one of three professional areas of study: community health, healthcare administration, or occupational health and safety. The faculty supports the idea of focused academic preparation in each concentration such that Public Health BS graduates will have job appeal in their chosen professional field.

Students can expect to be involved, both in class and field experiences, in areas that deal with significant issues within general Public Health practice and within each concentration, such as health care costs and quality, consumer health issues, alcohol and other drugs, human sexuality, health promotion, health management and administration, unintentional injury causes and prevention, and other personal, occupational, and community health and safety issues.

The Public Health Bachelor of Science program at Sacramento State is a highly sought-after degree. Due to the large number of applications, the program has a pre-major status. Students wishing to become Public Health majors must complete a series of required lower division courses in order to be eligible to declare the major. Students should check the Department website (https://www.csus.edu/college/health-human-services/public-health/) for requirements and speak with the Public Health academic advisor to help with their academic plans.

Note: Students graduating with a BS in Public Health (all concentrations) will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Pre-Major Requirements

Freshman or transfer students interested in the Public Health Major are admitted as Pre-Major Public Health students.

To change to a Public Health major, all students are required to complete the follow grade and course requirements and submit a Declaration of Major form to the Public Health Department along with transcript copies:

1. An overall GPA of 2.5 and be in good academic standing.
2. Completion of the Pre-Major Required Courses with a 'C' or better in each course. Only first or second attempts will be considered.
3. Completion of more than 45 units.

Additional Information

Repeat Policy: Public Health majors can only repeat Public Health courses one time if they receive less than a 'C.' Students must meet with their academic advisor before petitioning the department to repeat the course. Refer to the Repeat Policy section of the Sacramento State Catalog for additional information.

Credit by Examination: A student who seeks course credit by examination is to enroll in the course to be challenged. No course may be challenged after the first two weeks of the semester. The instructor of the course will conduct an assessment of the student's readiness for the challenge for credit examination. Refer to Credit by Examination section of the Sacramento State Catalog.

Advising: It will be necessary to work very closely with an advisor to complete the BS degree in a timely manner. Therefore, the Public Health faculty strongly recommends that all Public Health students consult with an advisor prior to enrollment for any course. This procedure should be followed each semester.

Program Requirements

Code	Title	Units
Required Pre-Major (Lower Division) Courses (16 Units)		
BIO 25	Human Anatomy and Physiology I	4
BIO 26	Human Anatomy and Physiology II	4
CHEM 6A	Introduction to General Chemistry [1]	5
STAT 1	Introduction to Statistics [1]	3
Required Upper Division Courses (15-16 Units)		
PUBH 118	Community Health	3
PUBH 147	Health Data Analysis	3
PUBH 148	Epidemiology	3
PUBH 151	Introduction to the U.S. Healthcare System	3
PUBH 195	Fieldwork - Health or Safety	3 - 4
Concentrations (27-31 Units)		

Select one concentration from the following:	27 - 31
Community Health Education	
Health Care Administration	
Occupational Health and Safety	
Total Units	58-63

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Note: Public Health courses depend upon concentration, permission of the faculty advisor, program coordinator, and department chair.

Concentration in Occupational Health and Safety (27 - 31 units)

Code	Title	Units
CHEM 6B	Introduction to Organic and Biological Chemistry	3 - 5
or CHEM 20	Organic Chemistry Lecture--Brief Course	
PUBH 100	Fundamentals of Safety and Health	3
PUBH 106	Occupational Health	3
PUBH 107	Occupational Safety	3
PUBH 108	Occupational Health and Safety Laws and Regulations	3
PUBH 109	Cause and Control of Occupational Loss	3
Select three of the following:		9 - 11
BIO 39	Microbiology for Allied Health Students	
or BIO 139	General Microbiology	
ENVS 128	Environment and the Law	
ENVS 130	Environmental Toxicology	
ENVS 165	American Environmental History [1]	
FIN 138	Principles of Risk Management and Insurance	
PHYS 5A	General Physics: Mechanics, Heat, Sound [1]	
or PHYS 10	Physics In Our World	
Total Units		27-31

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5 [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area Course C		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9-12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		39-42

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following option':
- If student chooses to take ENVS 165, they will meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here:https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Public Health (Occupational Health and Safety), BS in Public Health (Health Care Administration), or BS in Public Health (Community Health Education) are exempt from the Foreign Language Graduation Requirement.

Master of Public Health

Total units required for MPH: 42

Program Description

Sacramento State offers a Master of Public Health (MPH) degree with an emphasis in Health Promotion, Policy, and Leadership. The MPH degree is offered in a hybrid format to students who are working professionals, providing flexibility to complete the degree in two years (five consecutive semesters). The MPH consists of 42 units incorporating the foundational concepts and competencies of public health as identified by the Council on Education for Public Health (CEPH). The program focuses on preparing public health professionals to develop effective strategies for preventing illness and disease within diverse communities, while increasing the student's capability in conducting health policy analysis and development. The program is offered in a cohort format to help facilitate teamwork and learning. The program offers advanced study for public health professionals working (or seeking employment) as public health educators, policy analysts, health advocates, program managers, and public health consultants in community-based organizations, healthcare settings, local-state-federal governments, and other practice settings.

The MPH program has a practice-oriented approach, emphasizing community-based training in coursework. The program's mission is to prepare public health leaders and practitioners to promote, protect, and advocate for the health and well-being of diverse communities at the local, state and global levels. This mission is achieved through the following coordinated efforts: by offering core public health content through applied experiences which develop passionate, informed, and practice-based public health professionals; by fostering faculty and student engagement in scholarly activities that contribute to the theory and practice of public health using evidence-based applications; and by establishing connections between faculty, students and community partners to address public health problems among diverse populations.

Admission Requirements

To be considered for admission to the Master of Public Health program, applicants must meet the minimum qualifications:

- a completed baccalaureate degree from an accredited college or university;
- a minimum GPA of 3.0 from the last undergraduate or graduate degree completed;
- 2 years of full-time, professional work experience in public health or a related field is preferred.

Domestic applicants with foreign documents and international students (F-1 or J-1 visa applicants) must consult the Office of Graduate Studies (http://www.csus.edu/gradstudies/) and Global Education/International Admissions Department (http://www.csus.edu/ipge/international-admissions/) for specific application instructions. These students must also submit TOEFL scores; for more information, please visit the Office of Graduate Studies (http://www.csus.edu/gradstudies/) website.

Applicants must submit the following requirement documents to be considered for admissions:

- Completed application form;
- Official transcripts from all higher education (unofficial transcripts may be submitted with the application, but official transcripts must be received before matriculation);
- A professional resume or CV;
- Personal statement (essay); and
- 2 completed MPH Reference Forms from professional and/or academic references.

Minimum Units and Grade Requirements

Units required for the MPH: 42

Minimum cumulative GPA: 3.0

Policies and Procedures

1. A student must maintain a minimum of a 3.0 GPA in the graduate coursework. A student may not earn a grade of less than a B grade in any MPH graduate program course. Students failing to maintain a GPA of 3.0 are automatically placed on academic probation. Students placed on academic probation must meet with the Program Director to discuss steps the student must take to remediate coursework or to address the deficiencies identified by the course instructor. Any student who has less than B in any two MPH graduate program courses will not be allowed to continue in the graduate program and will be dismissed.
2. Students must complete the program within 7 years of enrollment in the first MPH program course.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy for the master's degree indicating the proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admissions requirements;
- completed at least 17 units in the graduate program with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website (http://www.csus.edu/gradstudies/forms/). Students will complete the form after planning a degree program in consultation with the Graduate Coordinator. The completed form should then be returned to the Office of Graduate Studies for approval.

Program Requirements

Year 1		
First Semester		**Units**
PUBH 202	Ecological Determinants of Human Health	3
PUBH 204	Healthcare Systems, Structures, and Policies	3
PUBH 207A	Health Research Methods and Analysis (A)	3
	Units	9
Second Semester		
PUBH 201	Behavioral and Social Sciences in Public Health	3
PUBH 207B	Health Research Methods and Analysis (B)	3
PUBH 220	Health Policy Analysis	3
	Units	9
Third Semester		
PUBH 225	Topics in Public Health Seminar	3
PUBH 295	Public Health Practicum	3
	Units	6
Year 2		
Fourth Semester		
PUBH 203	Public Health Management and Leadership	3
PUBH 221	Strategies for Community Engagement	3
PUBH 222	Methods of Health Promotion	3
	Units	9
Fifth Semester		
PUBH 223	Leadership in Public Health Practice	3
PUBH 224	Program Planning and Evaluation	3
PUBH 500	Public Health Capstone	3
	Units	9
	Total Units	42

Culminating Experience

The program requires that all students complete a culminating experience, called the Capstone Project, during the last semester before graduation. The goal of the Capstone Project is to assess each student's (i) mastery of public health concepts and skills, and (ii) ability to integrate and apply these concepts and skills in practice.

PUBH 500 is designed to provide a degree of flexibility, such that students can select their own Learning Outcomes in consultation with the instructor. At the beginning of the term, each student must select at least 70% of the foundational competencies and at least 50% of the concentration competencies to address in the Capstone Project. This selection must be reviewed and approved by the instructor early in the semester, before the project is started. Achievement of these learning outcomes will be documented in the written Capstone Project and certified by the instructor and second reader.

To meet these requirements, students will be given a public health problem to solve that reflects current health concerns within a specified population. Students will analyze the problem using evidence-based, applied research and propose a feasible solution that reflects the capabilities of a public health organization. Student products will demonstrate a thorough grasp of the concepts, background, and tools necessary to address the issue through health promotion planning, policy development, and community engagement.

The problem analysis and proposed solution must be written in a formal document in one of the following formats:

- Comprehensive Program Plan
- Program Evaluation Plan
- Social Marketing Campaign
- Policy White Paper
- Research Paper
- Training Manual
- Grant Proposal
- Written Legislative Testimony

Minor in Health Science

Units required for the Minor: 18, all of which must be Health Science courses.

Program Description

Students can expect to be involved, both in class and field experiences, in areas that deal with significant issues within the specific concentration, such as health care costs, consumer health issues, alcohol and other drugs, human sexuality, unintentional injury causes and prevention, and other personal, occupational, and community health and safety issues as well as management, business and administration skills in the health care administration option.

Note: The Health Science Minor and Occupational Health and Safety minor will be suspended due to the impaction of the Health Science Program that begins Fall 2012. The suspension of the Health Science Minor and Occupational Health and Safety Minor will begin Fall 2012 and conclude Spring 2014.

Minimum Grade Requirement

All Health Science courses must be completed with a 'C' grade or better.

Program Requirements

The 18 units selected require approval by a Health Science faculty advisor.

Minor in Occupational Health and Safety

Units required for the Minor: 18, all of which must be Health Science courses.

Program Description

Students can expect to be involved, both in class and field experiences, in areas that deal with significant issues within the specific concentration, such as health care costs, consumer health issues, alcohol and other drugs, human sexuality, unintentional injury causes and prevention, and other personal, occupational, and community health and safety issues as well as management, business and administration skills in the health care administration option.

Note: The Health Science Minor and Occupational Health and Safety minor will be suspended due to the impaction of the Health Science

Program that begins Fall 2012. The suspension of the Health Science Minor and Occupational Health and Safety Minor will begin Fall 2012 and conclude Spring 2014.

Minimum Grade Requirement

All Health Science courses must be completed with a 'C' grade or better.

Program Requirements

Code	Title	Units
Required Upper Division Courses (12 Units)		
HLSC 100		3
HLSC 106		3
HLSC 107		3
HLSC 108		3
Additional Upper Division Requirements (6 Units)		
Select two of the following:		6
HLSC 109		
HLSC 116		
HLSC 118		
HLSC 195		
Total Units		18

Recreation, Parks, and Tourism Administration

College of Health and Human Services

Program Description

The Bachelor of Science in Recreation Administration provides students with the skills to manage people, programs, and events in a variety of recreational settings that include city parks and recreation programs, state and national parks, hotels, playgrounds, forests, beaches, health clubs, tourism destinations, recreational therapy programs, and non-profit community centers. Students will also gain an understanding of professional advocacy, ethics, inclusion, and current evaluation procedures applicable in a variety of employment settings.

RPTA students and graduates will find a wide range of internship and job opportunities with public and private agencies in the Greater Sacramento Region, the State of California, and throughout the United States.

Degree Programs

BS in Recreation Administration (Recreation and Park Management) (p. 745)

BS in Recreation Therapy (p. 749)

BS in Hospitality and Tourism Management (p. 743)

Minor in Non-Profit Administration (p. 752)

Minor in Recreation Administration (p. 752)

Certificate in Event Planning (p. 750)

Certificate in Hospitality and Tourism Administration (p. 750)

Certificate in Natural Resources Administration (p. 750)

Certificate in Non-Profit Administration (p. 751)

Certificate in Outdoor Adventure Administration (p. 751)

MS in Recreation Administration (p. 753)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science and Master of Science in Recreation, Parks, and Tourism are also individually accredited by Council on Accreditation of Parks, Recreation, Tourism and Related Professions (COAPRT).

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features and Fast Facts

- The Sacramento area provides a wide variety of resources to supplement the formal classroom education of students enrolled in the concentrations offered by the Department.
- Sacramento County, the City of Sacramento, and a variety of smaller cities and special districts have numerous park and recreation programs, and facilities.
- The State Capitol offers opportunities to observe state government in operation and numerous state and federal agencies have central or regional offices within the urban area.
- Faculty and students work closely with a variety of natural resource agencies that include: California State Parks, the U.S. Forest Service, Bureau of Land Management, and the National Park Service.
- Students completing necessary coursework in the Recreation Therapy and Recreation and Park Management Concentrations are eligible for both state and national certifications (e.g. CTRS, MPI, CHA, and CPRP).
- California has more National Parks than any other state in the country.
- Both clinical and community based recreation therapy programs provide services to a variety of special populations.
- Leisure businesses of all types abound in the immediate area, and in the Sierra Nevada and California Coastal regions within a 90 mile radius of the campus.
- California is one of the world's most-visited tourism destinations, and Sacramento provides access to the Central Valley, the mountains, the coast, wine country, and numerous adventure recreation and recreational sporting opportunities.
- The RPTA program at Sacramento State is the oldest COAPRT accredited program in Recreation Administration in California.

Career Possibilities

Recreation Therapist · Recreation Administrator · Event Planner · Conference Center Manager · Campus Recreation Facilities Manager · Recreation Program Planner · Intramural Sports Coordinator · Environmental Interpreter · Hotel Manager · Park Manager · Park Ranger · Outdoor Recreation Specialist · Camp Supervisor · Recreation Resources Manager · Community Center Director · ADA/Inclusion Consultant · Employee Recreation Manager · Fitness Club Manager · Vacation Resort Manager · Ski Resort Manager · Water Park Manager · Amusement Park Manager · Entertainment Facility Manager · Leisure Products · Resort Sales Representative · Recreation Specialist · Recreation Supervisor · Leisure Educator

Contact Information

Anthony Sheppard, Interim Department Chair (through August 2019)
Geraldine Nicholson, Administrative Support Coordinator
Solano Hall 4000
(916) 278-6752
FAX (916) 278-3866
Department of Recreation, Parks, and Tourism Website (http://www.csus.edu/hhs/RPTA/)

Faculty

BREUNIG, MARY

ERICKSON, ELIZABETH

HOFFMAN, JAMIE

HUR, JUNGYUN 'CHRISTINE'

JORGENSEN-EASTERLA, LISA J.

KIVEL, B. DANA

LUVAAS, ERIK

MARTINEZ, KATHERINE R.

ROLLOFF, DAVID

SHAW, GREG

SHEPPARD, ANTHONY G.

SHIRSAT, ABHIJEET

RPTA 1. Orientation to Recreation, Parks and Tourism Administration. 1 Unit

Prerequisite(s): RPTA majors only or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to the RPTA major with an emphasis on degree options, major advising, referrals to GE for general advising, information about the RPTA undergraduate student association, other local, statewide and national professional associations, scholarship opportunities, the 600-hour volunteer/paid placement prior to the internship, an overview of the internship process and a discussion about producing work in core and non-core RPTA courses for the portfolio requirement.
Credit/No Credit

RPTA 21. First Year Seminar: Becoming an Educated Person. 3 Units

General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

A first-year seminar intended to provide students with an introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. This course is designed to help students develop academic success strategies and to improve information literacy, intercultural competence,and integrative thinking. The seminar also provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

RPTA 22. Happiness, Quality of Life, and Recreation Over the Lifespan. 3 Units

General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

This course focuses on the interrelationship between happiness, positive leisure, recreation, one¿s personal growth and development, and quality of life. Emphasis is placed on the interplay between psychological, physical, and social factors that affect one¿s development and lifestyle choices. The course offers a survey of philosophical and scientific concepts linked to happiness and well-being as pertains to important components of the life experience ranging from conception to the end of life.

RPTA 30. Recreation, Parks and Tourism in Contemporary Society. 3 Units

Term Typically Offered: Fall, Spring

Orientation to the nature, scope and significance of the recreation, park and tourism in today's world. Analyzes philosophical and related elements essential to the effective delivery of leisure services, including the role of affective, cognitive and social motivations and outcomes.

RPTA 32. Leadership and Group Development. 3 Units

General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

The purpose of this course is for students to develop an understanding of the theory and practice of leadership in various recreational organizational settings. The course will allow students the opportunity to develop leadership skills through lectures, self-assessments, experiential exercises, class discussions and case studies. Students are exposed to diverse theories and perspectives on leadership and are encouraged to apply critical thinking skills to develop their own working philosophy of the leadership that will serve them in their career contexts.

RPTA 33. Race, Class Gender and Leisure. 3 Units

General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of the role of leisure in the social construction of markers of identity across gender, race, class, sexuality and disability; and leisure's role in the construction of institutional oppressions such as racism, sexism, homophobia and discrimination based on class and disability.

RPTA 34. The Outdoor Recreation Experience. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Encourages the student to identify and demonstrate an understanding of the value, meaning and benefits of outdoor recreation experiences and to explore a variety of outdoor adventure experiences. Outing skills such as trip planning, meal preparation, camp selection and set-up, equipment and clothing, map and compass, hygiene and first aid will be discussed and practiced. Students will also develop an awareness of and appreciation for minimum impact wilderness travel techniques and environmental responsibility and ethics.

RPTA 42. Recreation and Parks: Natural, Cultural, and Heritage Resources. 3 Units
Prerequisite(s): RPTA majors and minors only, or instructor permission.
Term Typically Offered: Fall, Spring

Examines the use of natural, cultural, and heritage resources for recreation, tourism and leisure purposes in a variety of settings and under the auspices of various agencies. Includes study of various protected areas and facilities, including parks, forests, museums, and cultural sites and how they are influenced by social trends, conflicting use demands, agency responsibilities, environmental considerations, and fiscal implications.

RPTA 50. Introduction to Rock Climbing. 1 Unit
Term Typically Offered: Fall, Spring

Designed to provide students with the basic knowledge, skills, and techniques of modern rock climbing. Students will learn skills pertaining to indoor top-rope and lead climbing, indoor and outdoor bouldering, and outdoor sport climbing. Students will also learn and discuss outdoor ethics and environmental impact in relation to rock climbing.

RPTA 60. Budgeting for Recreation Services. 3 Units
Prerequisite(s): RPTA major and minors only, or instructor permission.
Term Typically Offered: Fall only

Introduces students to budget topics in Recreation, Parks, and Tourism, through the use of theoretical readings, case studies, and a series of professional speakers. Students will gain a broad understanding of the planning and implementation of the budget process for a leisure service agency, primarily those that are non-profit or tax-supported.
Note: Only one of RPTA 60 or RPTA 61 may be counted for credit

RPTA 61. Cost Management for Hospitality. 3 Units
Prerequisite(s): RPTA major and minors only, or instructor permission.
Term Typically Offered: Spring only

Introduces students to a broad range of topics related to cost management in hospitality, and teaches students to analyze numerical data for decision-making in hospitality operations. Considers systems, techniques, information types, and presentational forms commonly used by hospitality managers. Additional topics include, financial statements and ratio analysis, various pricing methods, types of costs in hospitality and service industries, cost-volume-profit techniques, and the application of standard cost controls used in hospitality.
Note: Only one of RPTA 60 or RPTA 61 may be counted for credit

RPTA 62. Introduction to Recreation Law. 3 Units
Prerequisite(s): RPTA majors and minors only, or instructor permission.
Term Typically Offered: Fall, Spring

Introduces students to legal topics and regulations in Recreation, Parks and Tourism industries. Students are given a practical knowledge of the law, operation of the legal system, contracts, and legal applications to agency management, human rights and personnel. Course uses text book readings, case law from actual published decisions in the field of Recreation law, courtroom visitations, and professional speakers.

RPTA 80. Introduction to Hospitality and Tourism. 3 Units
Term Typically Offered: Fall only

Hospitality and tourism are vitally important to California's image and economy, and these two related industries are among the world's top employment providers. This course provides an introductory overview of the broad hospitality and tourism industries, covering several topics, including growth and development, trends and current concerns, and professional employment sectors.

RPTA 82. Introduction to Hospitality and Tourism Law. 3 Units
Term Typically Offered: Fall, Spring

This course provides insight into the laws and regulations governing the hospitality and tourism industries with an emphasis on labor relations and human resources best practices. The course addresses the general concepts of tort, contracts, liability, risk management, employment practices, licensing, and insurance needs. The course also explores the legal issues that today's industry professionals face such as privacy, labor laws, the common law system for innkeepers and newer hospitality products in the shared economy such as AirBnB or VRBO. Field Trip(s). Field trip(s) may be required.

RPTA 84. Hotel and Lodging Operations. 3 Units
Term Typically Offered: Fall, Spring

This course is designed to provide knowledge of hotel and lodging operations. Students will acquire an understanding of how a variety of lodging types, specifically hotels, operate by detailed examination of the departments common to most lodging properties, including the front office, sales and marketing, housekeeping, maintenance, and others. Additionally, topics relevant to operations like green initiatives and revenue optimization will be discussed in this course. Field Trip(s). Field trip(s) may be required.

RPTA 100. Recreation and Leisure Lifestyle Development. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Broad general overview of the recreation and leisure movement followed by a specific examination of changing leisure lifestyles and their impact on the individual's choice of recreation and leisure patterns. Also examine the impact that the choice of leisure lifestyles has on other aspects of the individual's life as well as the negative effects of restrictive or inadequate leisure involvement.

RPTA 101. Senior Seminar. 1 Unit
Prerequisite(s): RPTA 1 and senior status
Term Typically Offered: Fall, Spring

Students will focus on identifying potential internships, refining resumes and writing cover letters for securing internships. Complete their portfolio requirement for graduation and learn about the alumni association for RPTA graduates.
Credit/No Credit

RPTA 102. Recreation Therapy Professional Practice. 1 Unit
Prerequisite(s): RPTA 1, RPTA 106, RPTA 115, RPTA 116, RPTA 117, RPTA 118 and senior level.
Corequisite(s): RPTA 115, RPTA 116, and/or RPTA 118 may be taken concurrently.
Term Typically Offered: Fall, Spring

This senior level course is intended to build upon a student's previous coursework in recreation therapy, and link the theoretical foundation with day-today practical applications. Students will fine-tune skills and interests in recreation therapy, learn methods for effective networking, and develop interviewing techniques in order to identify appropriate internships and employment opportunities.
Credit/No Credit

RPTA 105. Management in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 30 or instructor permission
Term Typically Offered: Fall, Spring

Analyzes the functions of managers including planning, organizing, staffing, leading and controlling. Also examines basic principles, techniques and tools associated with these functions. Consideration of internal and external environments which influence the managerial process and the manager's role in various areas of enterprise activity.

RPTA 106. Introduction to Inclusive Recreation and Recreation Therapy. 3 Units
Prerequisite(s): RPTA majors and minors only or instructor permission.
Term Typically Offered: Fall, Spring

Addresses the etiology and nature of common disabling conditions and examines issues of leisure participation and inclusion for underrepresented populations. Topics include: attitudinal barriers, advocacy, normalization, universal design, activity analysis and modification, and legislation. Emphasis on leadership, supervision and organizational development of inclusive and recreation therapy programs.

RPTA 107. Grant Writing for Leisure Organizations. 3 Units
Prerequisite(s): Senior status or instructor permission.
Term Typically Offered: Spring only

A detailed examination of grant writing as a means of augmenting agency revenues for specific recreation projects, programs and research. An in-depth assessment of techniques used to source funding opportunities relevant to recreation and leisure agencies. A review of budget preparation and grant management.

RPTA 109. Computer Applications in Recreation, Parks and Tourism. 2 Units
Term Typically Offered: Fall, Spring

Introduces the student to the use of micro-computers in recreation, park and leisure services enterprises. Emphasis will be on the application of word processing, data bases, spread sheets and graphics to the work of professionals within the field. Consideration will also be given to telecommunications, interactive video and desktop publishing.

RPTA 110. Research and Evaluation in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 1 and RPTA 30.
Term Typically Offered: Fall, Spring

Provides students with tools to analyze leisure behavior, interests and the motivational basis of leisure as they apply to the field of recreation and leisure services. Emphasizes applied research techniques including qualitative, descriptive and analytical methods, and program evaluation.

RPTA 115. Recreation Therapy Assessment and Documentation. 3 Units
Prerequisite(s): CHDV 30, PSYC 168, RPTA 30, RPTA 106 and RPTA 117; or instructor permission.
Term Typically Offered: Fall, Spring

Assessment procedures and instruments used to assure competence in assessment of client function in leisure. Documentation, assessment, regulations in different settings (i.e., community hospital, and clinical settings), protocols and development of individual treatment plans. Students are exposed to the Recreation Therapy process (APIE) in a variety of clinical and community settings.

RPTA 116. Recreation Therapy Principles and Practices and the Recreation Therapy Process. 3 Units
Prerequisite(s): CHDV 30, RPTA 30, RPTA 106 and RPTA 117; or instructor permission. RPTA 117 may be taken concurrently.
Term Typically Offered: Fall, Spring

Philosophy and principles underlying the work performed by the recreation therapist are studied including assessment, individual program planning, interpersonal interaction skills, and working with families.

RPTA 117. Recreation Therapy and Contemporary Aspects of Disability. 3 Units
Prerequisite(s): RPTA 106; RPTA 106 may be taken concurrently.
Term Typically Offered: Fall, Spring

In-depth exploration of a variety of disabilities and diseases, including physical disabilities, developmental disabilities, intellectual disabilities, mental health, hearing and vision impairments, and disabilities related to aging. Content will focus on etiology, prognosis, symptomatic conditions, prescription drugs, and recreation therapy interventions. Medical terminology will be covered.

RPTA 118. Recreation Therapy Facilitation Techniques. 3 Units
Prerequisite(s): CHDV 30, PSYC 168, RPTA 30, RPTA 106 and RPTA 117; or instructor permission.
Term Typically Offered: Fall, Spring

Covers basic concepts, methods and techniques associated with the practice of recreation therapy. Students will understand and apply the recreation therapy process through intervention and facilitation methods that are critical to helping clients in health and human service settings. The goal is to assist students in developing the ability to use recreation, leisure and play in recreation therapy programs as interventions in the treatment process.

RPTA 119. Recreation Therapy Management and Advancement of the Profession. 3 Units
Prerequisite(s): BIO 25, CHDV 30, PSYC 168, RPTA105, RPTA 106, RPTA 115, RPTA 116, RPTA 117 and RPTA 118; or instructor permission.
Term Typically Offered: Fall, Spring

Examination of existing recreation programs in clinical settings (acute care hospitals, rehabilitation centers, state hospitals, skilled nursing facilities, intermediate care facilities, etc.); review of standards and regulations pertaining to recreation programs, development of recreation therapy programs, review of the roles of practitioners in related disciplines. Review of intervention techniques, program organization, management, and advancement of the profession and professional ethics.

RPTA 120. Leisure Education. 3 Units
Prerequisite(s): RPTA 106.
Term Typically Offered: Fall, Spring

History, scope and process of leisure education. A survey of guidance theories and procedures, including assessment techniques, program development, implementation and evaluations. The role of leisure education in diverse leisure delivery systems and with diverse populations. Legal, ethical, and professional aspects of leisure education.

RPTA 122. Perspectives On Leisure. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Basic philosophical, historical, psychological and scientific foundations and developments in leisure and recreation theory; review of the cultural forces, institutions and theories that affect individuals and society.

RPTA 125. Leisure, the Individual, and Contemporary Society. 3 Units
Prerequisite(s): Students must have passed the WPE or Eng 109W/E prior to enrollment in RPTA 125
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Provides an understanding of the social science of leisure in contemporary society by examining the philosophical, socio-cultural, ethical, economic, behavioral, political and historical dimensions of leisure; exploration of the interrelationship between individuals, groups, and society in the context of leisure. Course also examines beliefs, values, and social structures, and compares and contrasts them with individual and social influences such as race, ethnicity, gender, gender expression, sexuality, age, economic status and ability.

RPTA 128. Recreation Services for Diverse, Underserved and Underrepresented Populations. 3 Units
Term Typically Offered: Spring only

Examines how recreation service providers work with diverse segments of the community. Class will examine a variety of populations that have been underserved and that may be at risk. Examines the impact of factors such as racism, sexism, classism, ageism, ableism and heterosexism that affect access to programs and services for diverse populations.

RPTA 129. Youth Development in Recreation, Parks & Tourism. 3 Units
Term Typically Offered: Fall, Spring

This course will focus on examining contemporary issues and trends related to young people and youth development in recreation, parks and tourism. Students will learn about youth development frameworks and how to apply those frameworks to recreation-based settings. Students will learn about the importance of engaging youth in the process of program planning and development.

RPTA 130. Community Sport Programming. 3 Units
This course emphasizes sport as a program component of community-based recreation services in both public and private settings. Students will develop skills related to successful sport program development, implementation and evaluation, through in-class lecture, site visits, and student developed projects. Additional topics will include promotion, funding, staffing, purchasing, and maintenance as related to managing sport programs.

RPTA 131. Morale Welfare and Recreation (MWR): Military Recreation Services. 3 Units
Term Typically Offered: Fall, Spring

Students develop an understanding of the administration and programming of Morale, Welfare and Recreation Services for individuals serving in the military and their families. Recreation facilities and programs for all branches of the military, including the US Army, US Navy, US Marines, US Air Force and US Coast Guard, are covered. The course utilizes lectures, experiential exercises, class discussions and onsite visits to military installations.

RPTA 132. Campus Recreation. 3 Units
Term Typically Offered: Fall, Spring

This course introduces students to campus recreation programs. Students will be introduced to theories of student development in these recreational settings; the organizational context and history of recreational programs within a college setting; and the range of programming, facilities, and managerial duties within campus and base recreation. This will provide a great starting point for students preparing for a profession on campus, institutional and/or military recreation, or students wanting to broaden their knowledge in the overall field.

RPTA 136. Program and Event Planning in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 32.
Term Typically Offered: Fall, Spring

The program/event planning process will be described and explained. Relevant principles and methods will be identified. Students will develop a program/event plan for a local organization. Field trips may be required. Field trip(s) may be required.

RPTA 137. Community Organization. 3 Units
Term Typically Offered: Fall, Spring

Study of institutions and leisure service systems within the community, and the dynamics of community organization practices and actions. The role of the recreation and leisure service practitioner in bringing about community changes. Defining and promoting citizen participation through advisory council membership, survey applications, and public hearing attendance.

RPTA 139. Conference and Meeting Planning. 3 Units
Prerequisite(s): Restricted to declared RPTA majors and minors or instructor permission
Term Typically Offered: Fall only

Analyzes this varied, growth industry. Considers the range of conferences and meetings, from small corporate retreats to international conventions. Topics include: the scope of the industry, the role of convention centers, hotel and resort based meeting facilities, organizations that hold meetings and the nature of those meetings, meeting planning and the role of the professional planner and industry related careers. Field trips may be required.
Field trip(s) may be required.

RPTA 148. Experiential Education in Outdoor Recreation Settings. 3 Units
Term Typically Offered: Spring only

Exposes the students to theoretical and philosophical concepts of experiential education and provides a means through which they can put theory into practice in outdoor recreation settings. Using methods such as demonstrations, observation, presentations, and discussions, the course will explore the history and current trends of experience-based learning.

RPTA 149. Developing and Programming Adventure Experiences. 3 Units
Term Typically Offered: Fall only

Provides students with the working knowledge needed to produce enriching and fulfilling adventure leisure experiences. In order to most effectively aid and assist others in the process of maximizing their leisure experiences, the student of leisure must first know how to maximize these experiences for and within themselves. Therefore, students will be participating in leisure adventure experiences so they can be as effective as possible when developing and programming leisure adventure experience opportunities for others.

RPTA 150. Ecology Of Resource Areas. 3 Units
Term Typically Offered: Fall, Spring

Study of the fundamentals of ecology, silvics, soil science and manipulations of an ecosystem with emphasis on the whole biota as it relates to outdoor recreation areas. Designed to provide an understanding of the scientific basis for and the operational rationale of manipulation of natural resources for a variety of recreation uses.

RPTA 151. Visitor Management in Recreation Areas. 3 Units
Term Typically Offered: Fall, Spring

Visitor safety in recreation areas as it relates to the role and functions of management. Emphasis is given to principles and current legislation in hazard reduction, deviant behavior, liability, law enforcement, and other related topics.

RPTA 152. Law Enforcement for Forest and Park Rangers. 3 Units
Term Typically Offered: Spring only

State, county and federal park rangers and wardens differ from other peace officers in that they are trained to protect visitors and cultural and natural resources on our public lands. This course offers a survey of topics related to the Peace Officer level of rangers across America's diverse public land systems, with an emphasis on career opportunities in park, forest, and wildlife management.

RPTA 153. Environmental Interpretation. 3 Units
Term Typically Offered: Fall, Spring

Connecting visitors to natural, cultural, and historic resources is the primary focus of this course. Theories, principles and techniques are covered focusing on interpreting park and protected area values to people during their leisure. Personal and non-personal communication techniques will be practiced. Field sites in and around the Sacramento region will be visited to understand the diverse nature of the practice of interpretation. Designed for ranger naturalists, park interpretive staff, teachers, camp leaders, outdoor educators, and recreation program staff.

RPTA 154. Management of Recreation Facilities. 3 Units
Term Typically Offered: Fall only

An introduction to aspects of recreation facility administration for several facility types, including campus recreation facilities, health clubs, community centers, park facilities and aquatic centers. Course topics include administration techniques related to staffing and outsourcing, the roles of the facility manager, analyzing financing sources, best practices in facility maintenance, and issues related to facility design. The course utilizes class discussions, guest speakers and facility site visitations on and off campus.

RPTA 164. Leadership and Fundraising for Non-profit Organizations. 3 Units
Term Typically Offered: Spring only

Introduces students to principles and concepts of nonprofit leadership. This course will explore and provide an understanding of historical and philosophical foundations of nonprofit organizations; board/committee development and operation; and volunteer management. Students will also learn about fundraising methods and strategies. The course will consist of lecture, readings, discussion, guest speakers, nonprofit agency visitations, active learning exercises, and a community-learning component.

RPTA 165. Volunteer Management in Recreation, Parks and Tourism. 3 Units
Term Typically Offered: Fall only

This course will focus on examining issues and trends related to volunteer management in recreation, parks and tourism-related organizations. Students will begin to understand the role of volunteerism and develop the skills necessary for effective volunteer management through: assessing program needs for volunteers, screening, orientation, training, placement, supervision, motivation, retention and celebration of volunteers.

RPTA 166. Administration in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 105.
Term Typically Offered: Fall, Spring

Designed to provide the student with various in-depth perspectives regarding the use of management/administrative process in recreation, parks and tourism.

RPTA 167. Professional Organization Leadership. 3 Units
Prerequisite(s): RPTA 30, RPTA 32, and RPTA 105, or instructor permission
Term Typically Offered: Fall, Spring

This course is designed to introduce students to the historical and philosophical foundations of professionalism, and provide the necessary conceptual and technical competencies to organize and lead a successful professional organization/association. Political, legal and ethical issues will be discussed as well as the functions and roles of professional organizations/associations. The relationship between professionalism and advocacy will be examined.

RPTA 178. Human Resources Management in the Hospitality Industry. 3 Units
Prerequisite(s): RPTA 80 or Instructor Permission.
Term Typically Offered: Spring only

Comprehensive study of personnel management in today's hospitality profession, familiarizing students with many of the functions related to recruiting, selecting, orienting, training, and retaining outstanding lodging industry staff. Additionally, the course familiarizes students with the effects of rising labor costs, increasing competition for quality staff, changing employees attitudes, evolving guest expectations, and a proliferation of new laws that impact human resources policies and activities.

RPTA 179. Profit and Revenue Management for Hospitality. 3 Units
Prerequisite(s): RPTA 61 or Instructor Permission.
Term Typically Offered: Spring only

Revenue management is critical to the hospitality industry due to the perishable nature of a service based product. This course introduces students to topics related to revenue management in hospitality and teaches students techniques to manage revenue in a dynamic hospitality environment ¿ all with the goal of managing profits for the company. Capacity management, demand and revenue forecasting, discounting, overbooking practices, channel management, and pricing execution for the hospitality operations are discussed.

RPTA 180. Foundations of Commercial Recreation. 3 Units
Term Typically Offered: Fall only

Overview of the historical and philosophical foundations of the commercial recreation field. Identification of providers of commercial recreation goods and services. Analyzes current functions and trends in the operation of commercial leisure enterprises.

RPTA 182. Travel And Tourism. 3 Units
Term Typically Offered: Fall only

Examination of the history, significance and nature of travel and tourism in the world with emphasis on the U.S. Analyzes economic, cultural and social factors underlying development and growth of travel and tourism and a review of related research. Identification and description of travel and tourism service providers including their organization, financing and management practices. Prerquisite: Declared RPTA majors and minors only or instructor permission

RPTA 183. Marketing Recreation Services. 3 Units
Prerequisite(s): RPTA 30 or instructor permission
Term Typically Offered: Fall, Spring

Fields of recreation (including therapeutic, commercial, municipal, etc.), tourism and hospitality, while diverse, all offer products that are primarily intangible. The management and marketing of such service products can differ profoundly from those of goods products (often the focus of traditional business programs). Addresses the nature of the service product and services marketing in the people intensive, experiential world of recreation.

RPTA 184. Hospitality Administration. 3 Units
Prerequisite(s): Restricted to declared RPTA major and minors or instructor permission
Term Typically Offered: Spring only

Introduces students to resorts and hotels and their position within the tourism and hospitality industries. The scope of the hospitality industry and various issues concerning the successful development of a hospitality product will be discussed. Prepares students to engage in an internship or employment in this or a related industry, including restaurants and retail. It also helps these and other students to reinforce concepts and skills learned elsewhere by providing concrete, real-world examples of marketing and management methods.

RPTA 185. Advanced Seminar in Commercial Recreation Administration. 3 Units
Prerequisite(s): RPTA 180, RPTA 105 and RPTA 183; RPTA 183 may be taken concurrently; or instructor permission.
Term Typically Offered: Fall, Spring

In-depth analysis of the management of recreational business on a for-profit basis. Focuses on advanced topics, analytical skills, and problem solving in the management arena.

RPTA 187. Gastronomic Tourism. 3 Units
Prerequisite(s): RPTA 80 or Instructor Permission.
Term Typically Offered: Spring only

Tourists are increasingly motivated to travel for food and drink. Visiting the location and touring the production facilities is also important. This course provides an overview of the global culinary and gastronomic tourism industry, focusing on the ability of a destination to market itself (both people and place) through food. The various social and cultural contexts in which gastronomic tourism takes place are discussed as well as positive and negative impacts of global and local gastronomic tourism.

RPTA 188. Sacramento Region Craft Beer Industry Tourism. 3 Units
Prerequisite(s): Declared RPTA major or minor, or instructor permission.
Term Typically Offered: Fall only

Introduction to visitation and tourism related to California's craft beer industry, specifically in the Sacramento region. This course will provide students with a basic knowledge of craft beer as one of several local products that combine to create a unique agritourism selling proposition for Sacramento. Tourism-related products (beer festivals and contests, beer trails, beer bikes, and beer apps), hospitality (brewery tasting rooms and beer retail), as well as beer laws, and beer pairings will also be discussed.
Note: Must be 21 or over to enroll in the course. Field Trip(s).

Field trip(s) may be required.

RPTA 189. California Wine and Agri-Tourism. 3 Units
Prerequisite(s): Restricted to declared RPTA majors and minors or instructor permission
Term Typically Offered: Spring only

Introduction to the wine tourism and agri-tourism industries, specifically in the region surrounding Sacramento. Emphasis on wine regions, wineries as event stages, wine mythology and wine in popular culture. Additionally, the course will cover the role of agricultural festivals, related agri-tourism products, slow-food, specialty crop tourism, winery and farm retail, culinary destinations, wine list creation, ag natural tourism products and the role of agri-tourism as part of Sacramento's cultural identity.

RPTA 191. Service Learning Option for Recreation, Parks and Tourism Administration Courses. 1 Unit
Term Typically Offered: Fall, Spring

Individual goals, activities, and academic requirements for community service work and the service-learning credit option are outlined in a Service Learning Option/Contract agreed upon and signed by the student, instructor, and agency sponsor. Enrolled students are required to attend mid-semester and final learning assessment workshops and to complete written evaluations. Credit for the course awarded only if contract and course requirements are completed.
Credit/No Credit

RPTA 195B. Partial Internship: Recreation and Park Management. 4 Units
Prerequisite(s): RPTA 1, RPTA 30, RPTA 32, RPTA 42, RPTA 101, RPTA 105, RPTA 106, RPTA 109, RPTA 110, RPTA 136 and approval of academic advisor and internship coordinator.
Term Typically Offered: Fall, Spring

Supervised part-time or short-term internship in a recreation, park or tourism organization or business. Supervision is provided by faculty and also by personnel at the host site.
Note: Refer to the RPTA Internship Manual for procedures and requirements.

RPTA 195C. Partial Internship: Recreation and Park Management. 6 Units
Prerequisite(s): RPTA 1, RPTA 30, RPTA 32, RPTA 42, RPTA 101, RPTA 105, RPTA 106, RPTA 109, RPTA 110, RPTA 136 and approval of academic advisor and internship coordinator.
Term Typically Offered: Fall, Spring

Supervised part-time or short-term internship in a recreation, park or tourism organization or business. Supervision is provided by faculty and also by personnel at the host site.
Note: Refer to the RPTA Internship Manual for procedures and requirements.

RPTA 195D. Recreation Therapy Internship. 10 - 15 Units
Prerequisite(s): BIO 25, CHDV 30, PSYC 168, RPTA 1, RPTA 30, RPTA 102, RPTA 106, RPTA 110, RPTA 115, RPTA 116, RPTA 117, RPTA 118, RPTA 119, and RPTA 136; completion of required administrative paperwork in the semester prior to internship, approval of major advisor.
Term Typically Offered: Fall, Spring

Supervised full-time therapeutic internship in a recreation, park or tourism organization or business. Supervision is provided by faculty and also by certified personnel at the host site. Meets the professional certification requirements at the national or state levels.
Note: Refer to the RPTA Internship Manual for procedures and requirements.

RPTA 195E. Internship: Recreation and Park Management. 10 - 15 Units
Prerequisite(s): RPTA 1, RPTA 30, RPTA 32, RPTA 42, RPTA 101, RPTA 105, RPTA 106, RPTA 109, RPTA 110, RPTA 136 and approval of academic advisor and internship coordinator.
Term Typically Offered: Fall, Spring

Supervised, full-time internship in a recreation, park or tourism organization or business. Supervision is provided by faculty and also by personnel at the host site.
Note: Refer to the RPTA Internship Manual for procedures and requirements.

RPTA 195G. Partial Internship: Hospitality and Tourism Management. 4 - 6 Units
Prerequisite(s): RPTA 1, RPTA 30, RPTA 61, RPTA 80, RPTA 82, RPTA 101, RPTA 105, RPTA 106, RPTA 110, RPTA 183, and approval of academic advisor.
Term Typically Offered: Fall, Spring, Summer

Supervised, part-time work experience in hospitality or tourism designed to give students an increased understanding of the nature and scope of industry operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Refer to the HTM Internship Manual for procedures and requirements.

RPTA 195H. Internship: Hospitality and Tourism Management. 10 - 15 Units
Prerequisite(s): RPTA 1, RPTA 30, RPTA 61, RPTA 80, RPTA 82, RPTA 101, RPTA 105, RPTA 106, RPTA 110, RPTA 183, and approval of academic advisor.
Term Typically Offered: Fall, Spring, Summer

Supervised, full-time work experience in hospitality or tourism designed to give students an increased understanding of the nature and scope of industry operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Refer to the HTM Internship Manual for procedures and requirements.

RPTA 196E. Introduction to Posttraumatic Growth. 3 Units
Term Typically Offered: Fall, Spring

Traumatic life events affect individuals, families and communities. This course is designed to assist professionals working with survivors of traumatic events. Posttraumatic growth (PTG) is a positive focus, viewed from the perspective of the individual, secondary survivor, and the community. Clinical application illuminating a pathway toward PTG is also studied and discussed. The course incorporates current research, films, books, poems, plays, and interviews with survivors, will be used to profile individuals, families, communities, and organizations.

RPTA 196U. Advanced Leadership in Service Organizations. 3 Units
Prerequisite(s): RPTA 30 and RPTA 32, graduate student status, or instructor permission.
Term Typically Offered: Fall, Spring, Summer

To attain an overview of the leadership roles and responsibilities of the field of Recreation, Park & Tourism Administration. Gain a philosophical and contextual overview of leadership in the leisure services profession. Examination of various leadership techniques within the following recreation-based settings including Outdoor & Natural Resources, Community Recreation - Municipal and Non-Profit Organization, Hospitality and Tourism, and Recreational Therapy.

RPTA 198. Co-Curricular Activities. 1 - 3 Units
Prerequisite(s): Approval of an instructor and the Department chair.
Term Typically Offered: Fall, Spring

Co-curricular activities related to the subject matter and professional concerns of Recreation and Leisure Studies. For example, students may earn credit by participating as a tutor or discussion leader for recreation and leisure studies classes or a teacher or leader in programs offered by community organizations.
Note: The course may be repeated three times for a maximum total of 3 units. Students can enroll for a class that counts as 1, 2 or 3 units. No more than 3 units of RPTA 198 may be used to meet the major requirements.

Credit/No Credit

RPTA 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of an instructor and the Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work. Can be repeated six times for a maximum total of 6 units. Students can enroll for a class that counts as 1, 2 or 3 units. No more than 6 units of RPTA 198 and RPTA 199 in combination may be used to meet major requirements.

Credit/No Credit

RPTA 200. Foundations of Leisure Concepts and Application. 3 Units
Term Typically Offered: Fall, Spring

Provides a comprehensive awareness of the historical, philosophical, psychological, experiential, and behavioral foundations of leisure. Global leisure perspectives examined in relationship to cultural diversity, current trends, future perspective, and economic implications. The art and science of providing fulfilling leisure experiences through private entrepreneurial recreations and public delivery systems explored.

RPTA 200A. Orientation to Graduate Studies in RPTA. 1 Unit
Prerequisite(s): Restricted to MS in Recreation Administration majors.
Term Typically Offered: Fall only

Course covers several topics related to the MS degree program in Recreation, Parks & Tourism Administration. Students will understand requirements and expectations of the program, develop a tentative degree plan and timeline, and learn about different options for the Culminating Experience. Course will review several other aspects important to graduate students, including deadlines and paperwork, library and research resources, Office of Graduate Studies resources, scholarships, life-school balance, graduate school terminology, and financial aid and funding resources, etc.
Credit/No Credit

RPTA 201. Advanced Studies in Leisure, Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 200
Term Typically Offered: Fall, Spring

The purpose of this course is to move students beyond conceptual foundations of leisure, recreation, parks and tourism administration to more theoretically advanced aspects of the field. In this course, students will pursue an in-depth exploration of the theories and research related to leisure, recreation, parks and tourism.

RPTA 202. Policies, Issues, and Problems in Recreation, Parks and Tourism. 3 Units
Term Typically Offered: Fall, Spring

Major environmental and recreational issues and problems affecting the recreation, parks and tourism field are discussed, analyzed, and evaluated. Ramifications involving policy making and planning processes of major federal, state, and local agencies involved with recreation, parks and tourism delivery services are also covered.

RPTA 203. Advanced Administration in Recreation, Parks and Tourism. 3 Units
Term Typically Offered: Fall, Spring

Examination of contemporary resources, techniques, and tools available to administrators in various types of recreation, parks and tourism delivery systems.

RPTA 204. Advanced Research Methods in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 200, RPTA 202, and graduate advisor approval.
Term Typically Offered: Fall, Spring

Provides an analysis of major research methods used in recreation, parks and tourism administration. Addresses basic and applied research orientations, research designs, research proposals, data collection tools and methods, data analysis, and reporting of research findings.

RPTA 206. Liability and Risk Management in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

In-depth analysis of the principles of legal liability as they pertain to recreation, parks and tourism administration. An examination of the pervasive nature of risk as it pertains to the provision of recreation, parks and tourism programs and opportunities, and the concepts and methods of risk management. Includes field trips, mock trials or other related activities.
Field trip(s) may be required.

RPTA 207. Grant Writing for Recreation, Parks and Tourism Organizations. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

A detailed examination of grant writing as a means of augmenting agency revenues for specific recreation projects, programs and research. An in-depth assessment of techniques used to source funding opportunities relevant to recreation and leisure agencies. A review of budget preparation and grant management.
Note: Students may not take both RPTA 107 and RPTA 207 for credit.

RPTA 209. Seminar in Advanced Leisure Education. 3 Units
Term Typically Offered: Fall, Spring

Surveys current and historical perspectives of leisure education from a multicultural and life span viewpoint. Current modes of service delivery will be discussed as they relate to leisure theories. Methods of leisure education provision in diverse settings from school-park collaboratives, retirement and rehabilitation centers, to corporate wellness will be investigated. Development, implementation and management of viable leisure education services will be covered as well presentation, training and consultation skills.

RPTA 295. Practicum. 3 - 6 Units
Prerequisite(s): Approval of major advisor.
Term Typically Offered: Fall, Spring

Graduate internship experiences in a practical setting.
Note: Open only to graduate students. Can be repeated two times for a maximum total of 6 units. Students can enroll for a class that counts as 3, 4, 5 or 6 units. No more than 6 units of RPTA 295 and RPTA 299 in combination may be used to meet degree requirements.

Credit/No Credit

RPTA 299. Individual Study. 1 - 6 Units
Prerequisite(s): Approved petition filed in the department office.
Term Typically Offered: Fall, Spring

Individual project, problem, practical study, survey, and/or directed reading on the graduate level.
Note: Can be repeated six times for a maximum total of 6 units. Students can enroll for a class that counts as 1, 2, 3, 4, 5 or 6 units. No more than six units of RPTA 295 and RPTA 299 in combination may be used to meet major requirements.

Credit/No Credit

RPTA 500A. Culminating Experience: Thesis. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of graduate coordinator.
Term Typically Offered: Fall, Spring

Successful completion of a thesis approved for the Master's degree. Student must have approval from first reader.
Credit/No Credit

RPTA 500B. Culminating Experience: Project. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of graduate coordinator.
Term Typically Offered: Fall, Spring

Successful completion of a project approved for Master's degree. Student must have approval from the first reader.
Credit/No Credit

RPTA 500C. Culminating Experience: Comprehensive Exam. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Successful completion of a comprehensive examination approved for Master's degree.
Credit/No Credit

BS in Hospitality and Tourism Management

Units required for Major: 57-59
Total units required for BS: 120

Program Description

Hospitality and tourism are two of California's fastest growing and most important industries. The **BS in Hospitality and Tourism Management** allows students flexibility in the selection of courses related to hospitality and tourism management, commercial recreation, and event planning. Curriculum focuses on hotel management, tourism destination marketing, and convention and meeting planning, as well as the basics of entrepreneurial businesses, and the skills needed for working with for-profit, and experience industry agencies (e.g., resorts, ski lodges, conference and meeting facilities, cruise lines, theme parks, destination marketing agencies, spas, clubs, and travel agencies). Local industry professionals from the Sacramento Hotel Association and Visit Sacramento (Sacramento Convention and Visitors Bureau) work closely with department faculty to give students practical skills associated with internships and jobs in the industry.

Note:

- Students graduating with a Bachelor of Science Degree in Hospitality and Tourism Management are not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.
- No more than 6 units of RPTA 198 and RPTA 199 in combination may be used to meet program requirements. No more than 3 units of RPTA 198 may be used to meet major requirements.
- RPTA 21, RPTA 22, RPTA 100 and RPTA 122 may **not** be used to meet program requirements.

Minimum Grade Requirement

Grade of 'C-' or better required in all courses applied to the major.

Additional Graduation Requirement

Majors are required to compile and consistently maintain an assessment portfolio. The portfolio is a cumulative collection of individual assignments designed to demonstrate competency in specific areas such as written communication, oral communication, group interaction, research and analysis, and computer literacy. Each competency may be assessed at more than one level (e.g., beginning, advanced) and adequate opportunities for completion of all required demonstrations of competency are available within the required major coursework. Additionally, opportunities for specific competency level demonstrations may be made available in supportive coursework within the major (e.g., RPTA 139, RPTA 182). In individual course-based assignments, learning outcomes, and competencies are assessed based upon specified criteria.

Continuing instructor feedback and self-assessment exercises are intended to create a process that improves learning outcomes, as well as facilitates the student's ability to demonstrate those outcomes and competencies both before and after graduation.

It is the responsibility of the student, in consultation with their portfolio advisor, to maintain the portfolio and to insure that all requirements have been successfully completed prior to graduation. The completed portfolio is presented in RPTA 101 for BS in Recreation Administration: Recreation and Park Management Concentration students, and BS in Hospitality and Tourism Management students.

Program Requirements

Code	Title	Units
Required Lower Division Courses (16 Units)		
RPTA 1	Orientation to Recreation, Parks and Tourism Administration	1
RPTA 30	Recreation, Parks and Tourism in Contemporary Society	3
RPTA 61	Cost Management for Hospitality	3
RPTA 80	Introduction to Hospitality and Tourism	3
RPTA 82	Introduction to Hospitality and Tourism Law	3
RPTA 84	Hotel and Lodging Operations	3
Required Upper Division Courses (16 Units)		
RPTA 101	Senior Seminar	1
RPTA 105	Management in Recreation, Parks and Tourism	3
RPTA 106	Introduction to Inclusive Recreation and Recreation Therapy	3
RPTA 110	Research and Evaluation in Recreation, Parks and Tourism	3
RPTA 183	Marketing Recreation Services	3
Select one of the following: [3]		3
RPTA 136	Program and Event Planning in Recreation, Parks and Tourism	
RPTA 139	Conference and Meeting Planning	
Elective Requirement (15 Units) [1,2]		
Selective 15 units from the following with approval from major advisor:		15
NUFD 9	Food Safety and Sanitation	
RPTA 32	Leadership and Group Development	
RPTA 136	Program and Event Planning in Recreation, Parks and Tourism [3]	
RPTA 139	Conference and Meeting Planning [3]	
RPTA 164	Leadership and Fundraising for Non-profit Organizations	
RPTA 165	Volunteer Management in Recreation, Parks and Tourism	
RPTA 178	Human Resources Management in the Hospitality Industry	
RPTA 179	Profit and Revenue Management for Hospitality	
RPTA 182	Travel And Tourism	
RPTA 184	Hospitality Administration	
RPTA 185	Advanced Seminar in Commercial Recreation Administration	
RPTA 187	Gastronomic Tourism	
RPTA 188	Sacramento Region Craft Beer Industry Tourism	
RPTA 189	California Wine and Agri-Tourism	
Internship Requirement (10-12 Units)		
Select from the following for a minimum of 10 units:		10 - 12
RPTA 195G	Partial Internship: Hospitality and Tourism Management	
or		
RPTA 195H	Internship: Hospitality and Tourism Management	
Total Units		57-59

1 RPTA 21, RPTA 22, RPTA 100 or RPTA 122 may **not** be used to meet major requirements. At least nine units must be upper division.

2 May include credit from associated transfer degree.

3 Students interested in event planning are encouraged to take both RPTA 136 and RPTA 139. If a student takes both RPTA 136 and RPTA 139, one will count as an elective. The same course may **not** 'double count' for both the required section and the elective section.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9-12 Units)		
Area D Course		3
Area D Course		3
Area D Course		0 - 3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development		
Area E Course [2]		0
Total Units		43-46

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/
Note: Students with a declared major of BS in Recreation Therapy, BS in Recreation Administration (Recreation and Park Management), or BS in Hospitality and Tourism Management are exempt from the Foreign Language Graduation Requirement.

BS in Recreation Administration (Recreation and Park Management)

Units required for Major: 57-59
Total units required for BS: 120

Program Description

The BS in Recreation Administration with a Concentration in Recreation and Park Management allows students flexibility in the selection of courses related to department certificate programs in:

- **Community Recreation Management and Non-Profit Administration.** These courses focus on skills needed for working with **public recreation and park agencies** at the city, county, regional, and state levels (e.g., city or county Department of Parks and Recreation), **special districts** (e.g., East Bay Regional Park District) and/or **non-profit agencies** (e.g., after-school programs, fundraising events, programs for seniors, summer camps, etc.). Students who take courses in this area are being trained for positions that involve planning, implementing, managing, and evaluating comprehensive recreation programs in public and nonprofit settings.
- **Natural Resource, Experiential Education, and Outdoor Recreation.** These courses focus on skills needed for working with agencies that provide opportunities for outdoor recreation (e.g., the Forest Service), agencies that manage natural resources (e.g., the National Park Service), and agencies that plan for and manage outdoor recreation experiences and resources (e.g., the California Department of Parks and Recreation, Planning Division). Students who take courses in this area are being trained for positions as park rangers and managers, interpreters of natural and cultural history, managers of visitors to parks, and outdoor recreation planners.
- **Hospitality and Tourism Management, Commercial Recreation, and Event Planning.** These courses focus on **the basics of entrepreneurial businesses**, and the skills needed for working with **for-profit**, commercial recreation and experience industry agencies (e.g., resorts, hotels, conference and meeting facilities, cruise lines, event planners, destination marketing agencies, and travel agencies). Students who take courses in this area are being trained for positions in enterprises which offer leisure services and/or products for a profit. Examples include clubs and spas, resorts, ski areas, theme parks, and the hospitality industry.

Note:

- Students graduating with a Bachelor of Science Degree in Recreation Administration: Recreation and Park Management are not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.
- No more than 6 units of RPTA 198 and RPTA 199 in combination may be used to meet program requirements. No more than 3 units of RPTA 198 may be used to meet major requirements.
- RPTA 21, RPTA 100 and RPTA 122 may **not** be used to meet program requirements.

Minimum Grade Requirement

Grade of 'C-' or better required in all courses applied to the major.

Additional Graduation Requirement

Majors are required to compile and consistently maintain an assessment portfolio. The portfolio is a cumulative collection of individual assignments designed to demonstrate competency in specific areas such as written communication, oral communication, group interaction, research and analysis, and computer literacy. Each competency may be assessed at more than one level (e.g., beginning, advanced) and adequate opportunities for completion of all required demonstrations of competency are available within the required major coursework. Additionally, opportunities for specific competency level demonstrations may be made available in supportive coursework within the major (e.g., RPTA 153, RPTA 182). In individual course-based assignments, learning outcomes, and competencies are assessed based upon specified criteria. Continuing instructor feedback and self-assessment exercises are intended to create a process that improves learning outcomes, as well as facilitates the student's ability to demonstrate those outcomes and competencies both before and after graduation.

It is the responsibility of the student, in consultation with their portfolio advisor, to maintain the portfolio and to insure that all requirements have been successfully completed prior to graduation. The completed

portfolio is presented in RPTA 101 for Recreation and Park Management Concentration students.

Program Requirements

Code	Title	Units
Required Lower Division Courses (16 Units)		
RPTA 1	Orientation to Recreation, Parks and Tourism Administration	1
RPTA 30	Recreation, Parks and Tourism in Contemporary Society	3
RPTA 32	Leadership and Group Development [1]	3
RPTA 42	Recreation and Parks: Natural, Cultural, and Heritage Resources	3
RPTA 62	Introduction to Recreation Law	3
Select one of the following:		3
RPTA 60	Budgeting for Recreation Services	
RPTA 61	Cost Management for Hospitality	
Required Upper Division Courses (12 Units)		
RPTA 105	Management in Recreation, Parks and Tourism	3
RPTA 106	Introduction to Inclusive Recreation and Recreation Therapy	3
RPTA 110	Research and Evaluation in Recreation, Parks and Tourism	3
RPTA 136	Program and Event Planning in Recreation, Parks and Tourism	3
Concentration Requirement (29-31 Units)		
Select one of the following concentrations:		29 - 31
Recreation Therapy		
Recreation and Park Management		
Total Units		57-59

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Concentration in Recreation and Park Management

Code	Title	Units
RPTA 101	Senior Seminar	1
RPTA 183	Marketing Recreation Services	3
Select one of the following:		10 - 12
RPTA 195B & RPTA 195C	Partial Internship: Recreation and Park Management Partial Internship: Recreation and Park Management	
or		
RPTA 195E	Internship: Recreation and Park Management	
Select any RPTA courses approved by major advisor. Students are encouraged to select courses that complete at least one of the department certificate programs. [1]		15
RPTA 33	Race, Class Gender and Leisure [2]	
RPTA 34	The Outdoor Recreation Experience	
RPTA 80	Introduction to Hospitality and Tourism	
RPTA 107	Grant Writing for Leisure Organizations	
RPTA 121		
RPTA 128	Recreation Services for Diverse, Underserved and Underrepresented Populations	
RPTA 129	Youth Development in Recreation, Parks & Tourism	
RPTA 130	Community Sport Programming	
RPTA 131	Morale Welfare and Recreation (MWR): Military Recreation Services	
RPTA 132	Campus Recreation	
RPTA 137	Community Organization	
RPTA 139	Conference and Meeting Planning	
RPTA 148	Experiential Education in Outdoor Recreation Settings	
RPTA 149	Developing and Programming Adventure Experiences	
RPTA 150	Ecology Of Resource Areas	
RPTA 151	Visitor Management in Recreation Areas	
RPTA 152	Law Enforcement for Forest and Park Rangers	
RPTA 153	Environmental Interpretation	
RPTA 154	Management of Recreation Facilities	
RPTA 164	Leadership and Fundraising for Non-profit Organizations	
RPTA 165	Volunteer Management in Recreation, Parks and Tourism	
RPTA 166	Administration in Recreation, Parks and Tourism	
RPTA 167	Professional Organization Leadership	
RPTA 180	Foundations of Commercial Recreation	
RPTA 182	Travel And Tourism	
RPTA 184	Hospitality Administration	
RPTA 185	Advanced Seminar in Commercial Recreation Administration	
RPTA 189	California Wine and Agri-Tourism	
RPTA 196H		
Total Units		29-31

[1] At least 9 units must be at the upper division level. RPTA 21, RPTA 100 or RPTA 122 may **not** be used to meet major requirements.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3

B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.	3
Area C: Arts and Humanities (12 Units)	
C1 - Arts	3
C2 - Humanities	3
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (9-12 Units)	
Area D Course	3
Area D Course	3
Area D Course [2]	0 - 3
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development	
Area E Course [3]	0
Total Units	43-46

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department recommends RPTA 33 to meet Area D.

[3] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Recreation Administration (Recreation Therapy) or BS in Recreation Administration (Recreation and Park Management) are exempt from the Foreign Language Graduation Requirement.

BS in Recreation Administration (Recreation Therapy)

Program scheduled for Discontinuation, please see the BS in Recreation Therapy (p. 749) for Program Requirements.

Units required for Major: 70-71
Total units required for BS: 120

Program Description

The BA in Recreation Administration with a Concentration in Recreation Therapy focuses on recreation services for individuals who are ill, disabled, elderly, or incarcerated. It can be applied in clinical, transitional, and community based settings. Emphasis is on therapeutic recreation as it applies to children and adults who are physically, mentally, socially, and/or emotionally challenged.

Note:

- Students graduating with a Bachelor of Science Degree in Recreation Administration: Recreation and Park Management/Recreation Therapy will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.
- No more than 6 units of RPTA 198 and RPTA 199 in combination may be used to meet program requirements. No more than 3 units of RPTA 198 may be used to meet major requirements.
- RPTA 100 and RPTA 122 may **not** be used to meet program requirements.

Minimum Grade Requirement

Grade of 'C-' or better required in all courses applied to the major.

Additional Graduation Requirement

Majors are required to compile and consistently maintain an assessment portfolio. The portfolio is a cumulative collection of individual assignments designed to demonstrate competency in specific areas such as written communication, oral communication, group interaction, research and analysis, and computer literacy. Each competency may be assessed at more than one level (e.g., beginning, advanced) and adequate opportunities for completion of all required demonstrations of competency are available within the required major coursework (as listed above). Additionally, opportunities for specific competency level demonstrations may be made available in supportive coursework within the major (e.g., RPTA 153, RPTA 182). In individual course-based assignments, learning outcomes, and competencies are assessed based upon specified criteria. Continuing instructor feedback and

self-assessment exercises are intended to create a process that improves learning outcomes, as well as facilitates the student's ability to demonstrate those outcomes and competencies both before and after graduation.

It is the responsibility of the student, in consultation with their portfolio advisor, to maintain the portfolio and to insure that all requirements have been successfully completed prior to graduation. The completed portfolio is presented in RPTA 101 for Recreation and Park Management Concentration students, or RPTA 102 for Recreation Therapy Concentration students.

Program Requirements

Code	Title	Units
Required Lower Division Courses (10 Units)		
RPTA 1	Orientation to Recreation, Parks and Tourism Administration	1
RPTA 30	Recreation, Parks and Tourism in Contemporary Society	3
RPTA 32	Leadership and Group Development [1]	3
RPTA 42	Recreation and Parks: Natural, Cultural, and Heritage Resources	3
Required Upper Division Courses (12 Units)		
RPTA 105	Management in Recreation, Parks and Tourism	3
RPTA 106	Introduction to Inclusive Recreation and Recreation Therapy	3
RPTA 110	Research and Evaluation in Recreation, Parks and Tourism	3
RPTA 136	Program and Event Planning in Recreation, Parks and Tourism	3
Concentration Requirement (35-49 Units)		
Select one of the following concentrations:		35 - 49
Recreation Therapy		
Recreation and Park Management		
Total Units		57-71

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Concentration in Recreation Therapy (48-49 units)

Code	Title	Units
Required Recreation Therapy Courses (30-31 Units)		
RPTA 102	Recreation Therapy Professional Practice	1
RPTA 115	Recreation Therapy Assessment and Documentation	3
RPTA 116	Recreation Therapy Principles and Practices and the Recreation Therapy Process	3
RPTA 117	Recreation Therapy and Contemporary Aspects of Disability	3
RPTA 118	Recreation Therapy Facilitation Techniques	3
RPTA 119	Recreation Therapy Management and Advancement of the Profession	3
RPTA 195D	Recreation Therapy Internship	14 - 15
Recreation Therapy Non-RPTA Supportive Coursework (18 Units)		
Select 18 units [1]		18
Total Units		48-49

[1] Supportive coursework units selected in consultation with a major advisor, including at least 3 units each in
1. Abnormal Psychology, Life span Human Development, and Human Anatomy/Human Physiology;
2. 9 units of Human Service Classes, as defined by NCTRC.

Advisor approval required to assure compliance with certification requirements.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development		
Area E Course [2]		0
Total Units		46

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html
Note: Students with a declared major of BS in Recreation Administration (Recreation Therapy) or BS in Recreation Administration (Recreation and Park Management) are exempt from the Foreign Language Graduation Requirement.

BS in Recreation Therapy

Units required for Major: 70-71
Total units required for BS: 120

Program Description

The BS in Recreation Therapy focuses on recreation services for individuals who are ill, disabled, elderly, or incarcerated. It can be applied in clinical, transitional, and community based settings. Emphasis is on therapeutic recreation as it applies to children and adults who are physically, mentally, socially, and/or emotionally challenged.

Note:

- Students graduating with a Bachelor of Science Degree in Recreation Therapy will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.
- No more than 6 units of RPTA 198 and RPTA 199 in combination may be used to meet program requirements. No more than 3 units of RPTA 198 may be used to meet major requirements.
- RPTA 21, RPTA 100 and RPTA 122 may **not** be used to meet program requirements.

Minimum Grade Requirement

Grade of 'C-' or better required in all courses applied to the major.

Additional Graduation Requirement

Majors are required to compile and consistently maintain an assessment portfolio. The portfolio is a cumulative collection of individual assignments designed to demonstrate competency in specific areas such as written communication, oral communication, group interaction, research and analysis, and computer literacy. Each competency may be assessed at more than one level (e.g., beginning, advanced) and adequate opportunities for completion of all required demonstrations of competency are available within the required major coursework.

In individual course-based assignments, learning outcomes, and competencies are assessed based upon specified criteria. Continuing instructor feedback and self-assessment exercises are intended to create a process that improves learning outcomes, as well as facilitates the student's ability to demonstrate those outcomes and competencies both before and after graduation.

It is the responsibility of the student, in consultation with their portfolio advisor, to maintain the portfolio and to insure that all requirements have been successfully completed prior to graduation. The completed portfolio is presented in RPTA 102 for Recreation Therapy students.

Program Requirements

Code	Title	Units
Required Lower Division Courses (10 Units)		
RPTA 1	Orientation to Recreation, Parks and Tourism Administration	1
RPTA 30	Recreation, Parks and Tourism in Contemporary Society	3
RPTA 32	Leadership and Group Development	3
RPTA 42	Recreation and Parks: Natural, Cultural, and Heritage Resources	3
Required Upper Division Courses (42-43 Units)		
RPTA 102	Recreation Therapy Professional Practice	1
RPTA 105	Management in Recreation, Parks and Tourism	3
RPTA 106	Introduction to Inclusive Recreation and Recreation Therapy	3
RPTA 110	Research and Evaluation in Recreation, Parks and Tourism	3
RPTA 115	Recreation Therapy Assessment and Documentation	3
RPTA 116	Recreation Therapy Principles and Practices and the Recreation Therapy Process	3
RPTA 117	Recreation Therapy and Contemporary Aspects of Disability	3
RPTA 118	Recreation Therapy Facilitation Techniques	3
RPTA 119	Recreation Therapy Management and Advancement of the Profession	3
RPTA 136	Program and Event Planning in Recreation, Parks and Tourism	3
RPTA 195D	Recreation Therapy Internship	14 - 15
Recreation Therapy Non-RPTA Supportive Coursework (18 Units)		
Select 18 units [1]		18
Total Units		70-71

[1] Supportive coursework units selected in consultation with a major advisor, including at least 3 units each in
1. Abnormal Psychology, Life span Human Development, and Human Anatomy/Human Physiology;
2. 9 units of Human Service Classes, as defined by NCTRC.

Advisor approval required to assure compliance with certification requirements.

Certificate in Event Planning

Units required for Certificate: 12

Program Description

The certificate program in Event Planning is designed for students interested in working for both private and public agencies in the areas of event planning, wedding planning, meeting planning, and recreational programming. Course work includes classes that teach the essentials in successful event management, including volunteer management, fundraising, sponsorships and leadership.

Completion of any of the program entitles a student to receive a certificate for that program in addition to the Bachelor of Science diploma. Certificates are officially recognized by the university and will appear on a student's transcript and may be listed on a student's résumé. **Students must be declared RPTA majors or minors in order to enroll in the certificate programs.** If a student fails to complete the major or minor, the certificate will not be awarded. All units must be taken in Recreation, Parks & Tourism Administration.

Bachelor of Science students: In addition to complete the requirements for the Bachelor of Science degree in Recreation Administration, students may also complete one or more of the certificate programs. Units in the certificates may overlap with required and supportive courses in the major.

Minor students: With advisor approval, students in the RPTA Minor Program may take courses in the certificate programs to partially fulfill the requirements of the minor (please read all of the minor requirements above). Students must complete all of the requirements for the minor to receive the certificate.

Minimum Grade Requirement

A grade of 'C-' or better is required in all courses applied to the certificate.

Program Requirements

Code	Title	Units
Required Courses (12 Units)		
RPTA 32	Leadership and Group Development	3
RPTA 136	Program and Event Planning in Recreation, Parks and Tourism	3
Select two of the courses below		*6*
RPTA 139	Conference and Meeting Planning	
RPTA 164	Leadership and Fundraising for Non-profit Organizations	
RPTA 165	Volunteer Management in Recreation, Parks and Tourism	
Total Units		12

Certificate in Hospitality and Tourism Administration

Units required for Certificate: 12

Program Description

The certificate program in Hospitality and Tourism Administration is for students interested in careers in hospitality and tourism, two of the world's most vital and dynamic industries. Coursework includes foundational classes in both hospitality and tourism, with elective options designed to develop higher-level problem solving skills and provide more in-depth knowledge into a specific commercial recreation area.

Completion of any of the program entitles a student to receive a certificate for that program in addition to the Bachelor of Science diploma. Certificates are officially recognized by the university and will appear on a student's transcript and may be listed on a student's résumé. **Students must be declared RPTA majors or minors in order to enroll in the certificate programs.** If a student fails to complete the major or minor, the certificate will not be awarded. All units must be taken in Recreation, Parks & Tourism Administration.

Bachelor of Science students: In addition to complete the requirements for the Bachelor of Science degree in Recreation Administration, students may also complete one or more of the certificate programs. Units in the certificates may overlap with required and supportive courses in the major.

Minor students: With advisor approval, students in the RPTA Minor Program may take courses in the certificate programs to partially fulfill the requirements of the minor (please read all of the minor requirements above). Students must complete all of the requirements for the minor to receive the certificate.

Minimum Grade Requirement

A grade of 'C-' or better is required in all courses applied to the certificate.

Program Requirements

Code	Title	Units
Required Courses (9 Units)		
RPTA 182	Travel And Tourism	3
RPTA 183	Marketing Recreation Services	3
RPTA 184	Hospitality Administration	3
Electives (3 Units)		
Select one of the courses below:		*3*
RPTA 139	Conference and Meeting Planning	
RPTA 185	Advanced Seminar in Commercial Recreation Administration	
RPTA 189	California Wine and Agri-Tourism	
Total Units		12

Certificate in Natural Resources Administration

Units required for Certificate: 9

Program Description

The certificate program in Natural Resource Administration prepares students to work in outdoor recreation agencies such as California State Parks, National Parks, National Forests, and other agencies that manage our natural, cultural and heritage resources. Through an informative coursework, students will receive a strong foundation in recreation management related to providing the public with high-quality outdoor recreational opportunities.

Completion of any of the program entitles a student to receive a certificate for that program in addition to the Bachelor of Science diploma. Certificates are officially recognized by the university and will appear on a student's transcript and may be listed on a student's résumé. **Students must be declared RPTA majors or minors in order to enroll in the certificate programs.** If a student fails to complete the major or minor, the certificate will not be awarded. All units must be taken in Recreation, Parks & Tourism Administration.

Bachelor of Science students: In addition to complete the requirements for the Bachelor of Science degree in Recreation Administration, students may also complete one or more of the certificate programs. Units in the certificates may overlap with required and supportive courses in the major.

Minor students: With advisor approval, students in the RPTA Minor Program may take courses in the certificate programs to partially fulfill the requirements of the minor (please read all of the minor requirements above). Students must complete all of the requirements for the minor to receive the certificate.

Minimum Grade Requirement

A grade of 'C-' or better is required in all courses applied to the certificate.

Program Requirements

Code	Title	Units
Required Courses (6 Units)		
RPTA 42	Recreation and Parks: Natural, Cultural, and Heritage Resources	3
RPTA 150	Ecology Of Resource Areas	3
Electives		**3**
Select one of the following courses		
RPTA 151	Visitor Management in Recreation Areas	
RPTA 152	Law Enforcement for Forest and Park Rangers	
RPTA 153	Environmental Interpretation	
Total Units		9

Certificate in Non-Profit Administration

Units required for Certificate: 12

Program Description

The Non-profit and tax-supported agencies are increasingly under pressure to secure their own funding and provide evidence of the impact of their programs. The certificate program in Non-Profit Administration provides students with solid skills to lead agencies in the public sector with course work in grant writing, fundraising, volunteer management and several other aspects of management for non-profit agencies. Non-RTPA majors can declare the Minor in Non-Profit Administration.

Completion of any of the program entitles a student to receive a certificate for that program in addition to the Bachelor of Science diploma. Certificates are officially recognized by the university and will appear on a student's transcript and may be listed on a student's résumé. **Students must be declared RPTA majors or minors in order to enroll in the certificate programs.** If a student fails to complete the major or minor, the certificate will not be awarded. All units must be taken in Recreation, Parks & Tourism Administration.

Bachelor of Science students: In addition to complete the requirements for the Bachelor of Science degree in Recreation Administration, students may also complete one or more of the certificate programs. Units in the certificates may overlap with required and supportive courses in the major.

Minor students: With advisor approval, students in the RPTA Minor Program may take courses in the certificate programs to partially fulfill the requirements of the minor (please read all of the minor requirements above). Students must complete all of the requirements for the minor to receive the certificate.

Minimum Grade Requirement

A grade of 'C-' or better is required in all courses applied to the certificate.

Program Requirements

Code	Title	Units
Required Courses (9 Units)		
RPTA 107	Grant Writing for Leisure Organizations	3
RPTA 164	Leadership and Fundraising for Non-profit Organizations	3
RPTA 165	Volunteer Management in Recreation, Parks and Tourism	3
Electives (3 Units)		
Select one of the following courses:		*3*
RPTA 33	Race, Class Gender and Leisure	
RPTA 128	Recreation Services for Diverse, Underserved and Underrepresented Populations	
RPTA 137	Community Organization	
RPTA 139	Conference and Meeting Planning	
RPTA 129	Youth Development in Recreation, Parks & Tourism	
RPTA 167	Professional Organization Leadership	
Total Units		12

Certificate in Outdoor Adventure Administration

Units required for Certificate: 12

Program Description

The certificate program in Outdoor Adventure Administration is for students wanting to provide the public with experiences and programs to play and learn in the great outdoors. Students will extend the general park and recreation management foundation of the Recreation

Administration core with courses that teach adventure recreation programming and experiential education skills.

Completion of any of the program entitles a student to receive a certificate for that program in addition to the Bachelor of Science diploma. Certificates are officially recognized by the university and will appear on a student's transcript and may be listed on a student's résumé. **Students must be declared RPTA majors or minors in order to enroll in the certificate programs.** If a student fails to complete the major or minor, the certificate will not be awarded. All units must be taken in Recreation, Parks & Tourism Administration.

Bachelor of Science students: In addition to complete the requirements for the Bachelor of Science degree in Recreation Administration, students may also complete one or more of the certificate programs. Units in the certificates may overlap with required and supportive courses in the major.

Minor students: With advisor approval, students in the RPTA Minor Program may take courses in the certificate programs to partially fulfill the requirements of the minor (please read all of the minor requirements above). Students must complete all of the requirements for the minor to receive the certificate.

Minimum Grade Requirement

A grade of 'C-' or better is required in all courses applied to the certificate.

Program Requirements

Code	Title	Units
Required Courses		
RPTA 42	Recreation and Parks: Natural, Cultural, and Heritage Resources	3
RPTA 148	Experiential Education in Outdoor Recreation Settings	3
RPTA 149	Developing and Programming Adventure Experiences	3
Electives		**3**
Select one of the following courses:		
RPTA 34	The Outdoor Recreation Experience	
RPTA 150	Ecology Of Resource Areas	
RPTA 151	Visitor Management in Recreation Areas	
RPTA 153	Environmental Interpretation	
Total Units		12

Minor in Non-Profit Administration

Units required for Minor: 21

Program Description

The Minor Programs in Non-Profit Administration and Recreation Administration are 21-unit programs designed for non-RPTA majors (RPTA majors cannot complete a minor program, and should see the link for RPTA Certificate Programs). The Minor in Non-Profit Administration will give students a solid background in grant writing and fundraising for non-profit agencies of all types, as well as the management skills to successfully lead in the non-profit sector.

All units must be taken in Recreation, Parks & Tourism Administration. At least 12 units must be upper division, with at least 9 upper division units taken in residence.

Minimum Grade Requirement

A grade of 'C-' or better is required in all upper division courses applied to the minor.

Program Requirements

Code	Title	Units
Required Courses (3 Units)		
Select one of the following courses:		*3*
RPTA 30	Recreation, Parks and Tourism in Contemporary Society	
RPTA 100	Recreation and Leisure Lifestyle Development	
RPTA 122	Perspectives On Leisure	
Required Courses (12 Units)		
RPTA 105	Management in Recreation, Parks and Tourism	3
RPTA 107	Grant Writing for Leisure Organizations	3
RPTA 164	Leadership and Fundraising for Non-profit Organizations	3
RPTA 165	Volunteer Management in Recreation, Parks and Tourism	3
Electives		**6**
Select two courses from the following:		
RPTA 33	Race, Class Gender and Leisure	
RPTA 128	Recreation Services for Diverse, Underserved and Underrepresented Populations	
RPTA 129	Youth Development in Recreation, Parks & Tourism	
RPTA 137	Community Organization	
RPTA 139	Conference and Meeting Planning	
RPTA 167	Professional Organization Leadership	
Total Units		21

Minor in Recreation Administration

Units required for Minor: 18

Program Description

The Minor in Recreation Administration is designed for non-RPTA majors interested in learning about career areas within the recreation, parks, and tourism fields. This broad set of industries can lead to careers in community services, natural resource management (as a park ranger), youth leagues and sports, non-profit leadership, adventure recreation, hospitality, campus recreation, activity programming, experiential education, and destination marketing.

Minor students may enroll in department **certificates** to complete the requirements of the minor. The minor must be completed for the certificate to be awarded.

The minor requires 18 units, all of which must be taken in Recreation, Parks, and Tourism Administration. At least 12 units must be upper division, with at least 9 upper division units taken in residence at Sacramento State.

Minimum Grade Requirement

A grade of 'C-' or better is required in all upper division courses applied to the minor.

Program Requirements

Code	Title	Units
Required (3 Units)		
Select 3 units from the following: [1]		*3*
RPTA 22	Happiness, Quality of Life, and Recreation Over the Lifespan	
RPTA 30	Recreation, Parks and Tourism in Contemporary Society	
RPTA 100	Recreation and Leisure Lifestyle Development [1]	
RPTA 122	Perspectives On Leisure [1]	
Electives (15 Units)		
Select 15 units from the following: [2, 3, 4, 5, 6]		*15*
RPTA 32	Leadership and Group Development	
RPTA 33	Race, Class Gender and Leisure	
RPTA 34	The Outdoor Recreation Experience	
RPTA 42	Recreation and Parks: Natural, Cultural, and Heritage Resources	
RPTA 60	Budgeting for Recreation Services [3]	
RPTA 61	Cost Management for Hospitality [3]	
RPTA 62	Introduction to Recreation Law [4]	
RPTA 80	Introduction to Hospitality and Tourism	
RPTA 82	Introduction to Hospitality and Tourism Law [4]	
RPTA 84	Hotel and Lodging Operations	
RPTA 105	Management in Recreation, Parks and Tourism	
RPTA 106	Introduction to Inclusive Recreation and Recreation Therapy	
RPTA 107	Grant Writing for Leisure Organizations	
RPTA 125	Leisure, the Individual, and Contemporary Society	
RPTA 128	Recreation Services for Diverse, Underserved and Underrepresented Populations	
RPTA 129	Youth Development in Recreation, Parks & Tourism	
RPTA 130	Community Sport Programming	
RPTA 131	Morale Welfare and Recreation (MWR): Military Recreation Services	
RPTA 132	Campus Recreation	
RPTA 136	Program and Event Planning in Recreation, Parks and Tourism	
RPTA 137	Community Organization	
RPTA 139	Conference and Meeting Planning	
RPTA 148	Experiential Education in Outdoor Recreation Settings	
RPTA 149	Developing and Programming Adventure Experiences	
RPTA 150	Ecology Of Resource Areas	
RPTA 151	Visitor Management in Recreation Areas	
RPTA 152	Law Enforcement for Forest and Park Rangers	
RPTA 153	Environmental Interpretation	
RPTA 154	Management of Recreation Facilities	
RPTA 164	Leadership and Fundraising for Non-profit Organizations	
RPTA 165	Volunteer Management in Recreation, Parks and Tourism	
RPTA 166	Administration in Recreation, Parks and Tourism	
RPTA 167	Professional Organization Leadership	
RPTA 178	Human Resources Management in the Hospitality Industry	
RPTA 179	Profit and Revenue Management for Hospitality	
RPTA 180	Foundations of Commercial Recreation	
RPTA 182	Travel And Tourism	
RPTA 183	Marketing Recreation Services	
RPTA 184	Hospitality Administration	
RPTA 185	Advanced Seminar in Commercial Recreation Administration	
RPTA 187	Gastronomic Tourism	
RPTA 188	Sacramento Region Craft Beer Industry Tourism	
RPTA 189	California Wine and Agri-Tourism	
RPTA 196E	Introduction to Posttraumatic Growth	
HHS 196Y	Youth Recreation in Camp Settings	
Total Units		18

1. Minor students with catalog rights prior to fall 2018 may use RPTA 100 or RPTA 122. Only one of RPTA 22, RPTA 30, RPTA 100 or RPTA 122 may be counted toward the minor.
2. Minor students may follow the requirements for one of the department certificate programs to complete the minor (both the minor and certificate will be awarded), or choose any 15 units.
3. Only one of RPTA 60 or RPTA 61 may be counted towards the minor.
4. Only one of RPTA 62 or RPTA 82 may be counted towards the minor.
5. Minor electives may not include RPTA 1, RPTA 21, RPTA 101, RPTA 102, RPTA 109, RPTA 110, RPTA 115, RPTA 116, RPTA 117, RPTA 118, RPTA 119, RPTA 195 series courses (B, C, D, or E), RPTA 198, or one-unit courses (e.g. RPTA 50).
6. With minor advisor approval, up to 3 units of RPTA 199 may be applied to the minor.

MS in Recreation Administration

Total units required for MS: 30

Program Description

The graduate program leading to the Master of Science degree in Recreation Administration offers diversified opportunities for study. Through individual counseling, graduate students are able to develop a course of study for advanced work in areas which complement previous experience and training. There is sufficient flexibility in the program to allow students to pursue their individual areas of interest.

Core program objectives are designed to encourage a climate of inquiry and research. Specifically, all students should gain the ability to:

- critically analyze and identify problems;
- develop and utilize appropriate research or inquiry methods of problem solving;
- report clearly and succinctly the results of problem-focused research or inquiry;

- understand the philosophical, historical, and scientific foundations and developments in leisure service systems; and
- identify and demonstrate the values of leisure and recreation to the individual, the community, and society at large.

Career competencies are dependent upon the professional goal of each student. Hence, these vary. After career objectives have been clarified, individual students usually will be educated to:

- develop valid and reliable measures of program evaluation based on theoretical constructs and practical field requirements;
- develop efficient, effective, and meaningful procedures for assessing recreation needs and for allocating resources;
- identify and demonstrate effective decision making processes in leisure service systems; and
- demonstrate an effective interpretation of leisure and recreation data, findings, and procedures, and communicate these in personal and professional environments.

Admission Requirements

Admission as a classified graduate student in Recreation, Parks & Tourism Administration requires:

- a baccalaureate degree in Recreation Administration;
- a minimum 2.75 GPA overall and a minimum 3.0 GPA in the major;
- a detailed resume;
- three letters of recommendation; and
- a writing sample/personal statement.

A student with a baccalaureate degree from another discipline may be admitted to conditionally classified standing and complete certain designated courses in Recreation Parks & Tourism Administration, totaling 15 additional units (as determined by a faculty advisor), in order to acquire the academic background necessary to qualify for classified standing. A student from another discipline who wishes to qualify for state and/or national registration as a therapeutic recreation specialist may need to take additional coursework.

Admission Procedures

Applications are accepted as long as room for new students exists and the Office of Graduate Studies is still accepting applications. Prospective students should be aware that there is no spring admission. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470, www.csus.edu/gradstudies/ (http://www.csus.edu/gradstudies/):

- an online application for admission; and
- one set of official transcripts from each college and/or university attended, *other than Sacramento State.*

For more admissions information and application deadlines please visit http://www.csus.edu/gradstudies/.

At the same time each applicant must send to the Graduate Coordinator in Recreation, Parks & Tourism Administration:

- a detailed resume, including education and employment histories;
- unofficial transcripts of all previous academic work; and
- 3 recent letters of reference that address academic ability and professionalism.

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

Minimum Units and Grade Requirement for the Degree:

Units required for the MS: 30

Minimum Cumulative GPA: 3.0; as an exception to university policy a maximum of two 'B-' grades may be counted towards the degree.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA;
- obtained advisor's preliminary approval of thesis or project proposal (thesis and project students only); and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a Recreation Parks & Tourism Administration advisor. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Courses (12 Units)		
RPTA 200	Foundations of Leisure Concepts and Application	3
RPTA 202	Policies, Issues, and Problems in Recreation, Parks and Tourism	3
RPTA 203	Advanced Administration in Recreation, Parks and Tourism	3
RPTA 204	Advanced Research Methods in Recreation, Parks and Tourism	3
Electives (15 Units)		
Select 15 units with the prior consent of academic advisor [1]		15
Culminating Requirement (3 Units)		
Select one of the following:		3
RPTA 500A	Culminating Experience: Thesis	
RPTA 500B	Culminating Experience: Project	
RPTA 500C	Culminating Experience: Comprehensive Exam	
Total Units		30

[1] Elective coursework is selected with the prior consent of the student's academic advisor to satisfy the following:
- No more than 6 units of any combination of RPTA 295 and RPTA 299 may be counted towards the degree.
- No more than 6 units of coursework may be taken outside of RPTA (students who have not previously completed an undergraduate major in Recreation, Parks & Tourism Administration must have the prior consent of the Graduate Coordinator before taking coursework outside RPTA).
- At least 6 units of elective coursework must be at the 200 level (for a total of at least 18 units of 200 level coursework in the degree program).

Social Work

College of Health and Human Services

Program Description

Social Work is a profession that strives to enhance the well-being of all people while attending specifically to the needs and empowerment of those in vulnerable life conditions. The Sacramento State program focus embraces the interdependent interests of both the individual and society, with particular attention to the social context that creates, contributes to, and addresses obstacles and resources for individual and community growth and development.

Social Workers seek to help people address their own needs and influence the responsiveness of organizations, communities, and other social institutions, thus promoting social justice and social change. Towards these ends, multilevel Social Work activities include group work, community organization, supervision, individual and family counseling, consultation, administration, advocacy, social and political action, policy development and implementation, education, research and evaluation. In practice, Social Workers are sensitive to cultural and ethnic diversity, and work to combat discrimination, oppression, poverty, and other forms of social injustice.

The principle objective of the Bachelor of Arts in Social Work degree program is to educate beginning professional practitioners as generalists. The Master of Social Work degree program supports advanced specialized professional practice.

Degree Programs

BA in Social Work (p. 762)

Master of Social Work (p. 764)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Arts in Social Work and Master of Social Work are also individually accredited by Council of Social Work Education (CSWE).

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

- The Bachelor of Arts in Social Work and the Master of Social Work degree programs are accredited by the Council on Social Work Education.
- Many required classes will have at least one section scheduled during evening hours.
- Social Work students earn academic credit for professionally supervised field experience in a human service agency. The practicum is two to three days per week.
- All BA and MSW students receive academic and career planning advisement. Employment information for students is updated continuously.
- Graduate and undergraduate Social Work students maintain active student organizations including a chapter of Phi Alpha, a national honor society for Social Work.
- The MSW degree fulfills most of the educational requirements for California licensure as Licensed Clinical Social Worker (LCSW) and the Pupil Personnel Services Credential for School Social Work.

Career Possibilities

Geriatric Social Worker · Forensic Social Worker · Medical Social Worker · Mental Health Social Worker · Social Planner · Substance Abuse Counselor . Social Service Administrator · Community Organizer · Child and Family Counselor · Child Protective Worker · Adult Protective Worker · Occupational/Industrial Social Worker · Employee Assistance Counselor · Adoptions Worker · School Social Worker · Agency Director Program Evaluator · Family Therapist · Individual, Child & Family Therapist

Contact Information

Dale Russell, Director
Sandy Birtcil, Administrative Support Coordinator
Mariposa Hall 4010
(916) 278-6943
Division of Social Work Website (http://www.hhs.csus.edu/SWRK/)

Faculty

ANDERSON, JOSEPH

ANTONYAPPAN, JUDE

ARGUELLO, TYLER M.

AULT, STACEY

BAIOCCHI, ARTURO

BANKHEAD, TEIAHSHA

BARRANTI, CHRYSTAL C. RAMIREZ

BOWIE, SYLVESTER

BURRIS, JOYCE A.

CALER, KYLE

CARTER, ROBIN

CURRY, SUSANNA

DEMETRAL, DAVID

DINIS, MARIA

EGGMAN, SUSAN T.

EVANS, ETHAN

GUADALUPE, KRISHNA L.

KENNEDY, ROBIN

LEE, SERGE C.

LEWIS, MIMI

NAKAOKA, SUSAN

NAM, KISUN

NYLUND, DAVID

O'KEEFE, MAURA

RUSSEL, DALE A.

TAYLOR, SUSAN A.

TORRES, JR., SANTOS

WOLF, JENNIFER

YUEN, FRANCIS K.O.

SWRK 95. Introduction to Social Work. 3 Units
Term Typically Offered: Fall, Spring

Provides an overview of the social work profession and of social welfare systems especially in relation to marginalized populations. Also introduces a generalist perspective to social work practice with emphasis on professional development. Students are exposed to the values and ethics of social work, as well as the important ideologies that have shaped social welfare and social work.
Note: Includes a 30 hour volunteer experience to aid in assessing student's appropriateness for the profession. A grade of 'C' or better is required before taking SWRK 140A.

SWRK 102. Crosscultural Theory and Practice: Issues of Race, Gender and Class. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer

Increase student awareness of social, political, economic, and cultural diversity. Addresses patterns and consequences of discrimination and oppression as well as theoretical and practice content and strategies for social change.

SWRK 110. Statistics and Research for Social Workers. 3 Units
Term Typically Offered: Fall, Spring, Summer

Descriptive and inferential statistics, sampling, probability distribution, introduction to research methods, relationship of statistics to research methods; illustrations drawn from the field of human services.

SWRK 111. Research Methods and Program Evaluation. 3 Units
Prerequisite(s): SWRK 110.
Corequisite(s): SWRK 140B or SWRK 140C.
Term Typically Offered: Fall, Spring

User oriented research methods focusing on locating, understanding, and using the professional research literature relevant to the development of skills for the human service practitioner; and methods of evaluating ones own practice and agency programs.

SWRK 118. Chemical Dependency and Social Work Practice. 3 Units
Term Typically Offered: Fall, Spring

Introduction to social work practice with the alcoholic/addicted individual or family. The ecological framework will be utilized for studying alcohol and drug dependence and its prevention/intervention. Emphasis will be placed on addiction as a biopsychosocial problem with a special focus on oppressed and marginalized populations.

SWRK 125A. Human Behavior and the Social Environment: Theory. 3 Units
Prerequisite(s): SWRK Majors only with Junior status; completion of pre-major BIO 1, BIO 10, BIO 20 or ANTH 1; and ECON 1A, ECON 1B, PSYC 2, or SOC 1; and CRJ 1, GERO 100, SOC 3 or SOC 10.
Term Typically Offered: Fall only

Theory forms the foundation of all social work practice, attempting to explain complicated human behavior in interaction with diverse environments. This course examines core theories of human behavior, families, small groups, organizations, social movements, and human society from a variety of social science disciplines. Each theory will be critically examined in respect to application towards diverse groups and the vulnerable populations that social workers serve.

SWRK 125B. Human Behavior and the Social Environment: The Life Course. 3 Units
Prerequisite(s): SWRK majors only and SWRK 125A
Term Typically Offered: Spring only

This course examines growth and development with special focus on lifespan from birth through old age in the context of family, community, complex organizations, and society. With technological, economic, political and ecological systems rapidly changing, the course will also examine the effects on the interplay between human life and the environment.

SWRK 126. Theories of Criminal Behavior. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

Analyzes various theories in terms of their logic, historical origins, and policy implications. Focus on developing a critical framework.

SWRK 129. Human Sexuality in Social Work Perspectives. 3 Units
Term Typically Offered: Fall only

Examines psycho-social-cultural influences on sexual identity and sexual behavior; analyzes problems confronting the victims of sex-discrimination and oppression; considers education and treatment programs.

SWRK 132. Social Work and Spirituality. 3 Units
Term Typically Offered: Spring only

This course examines how spirituality serves as a liberating, and at times constricting force in the lives of our clients and communities. Competencies for both assessing and engaging in discussions about our clients' spiritual world as well as self-awareness regarding social work practitioner spiritual orientations are emphasized. Diverse spiritual and religious backgrounds (including those who consider themselves non-spiritual or non-religious) are welcomed and celebrated in the classroom.

SWRK 134. Crimes Without Victims. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Focuses on the study of particular behavior defined as criminal, including addiction, pornography, homosexuality, prostitution and abortion. The role of morality is examined.

SWRK 136. Poverty and Homelessness in America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Analyzes social theory and its relationship to the generation and retention of institutional poverty. Within this context, public and private welfare programs serving low-income populations will be examined.

SWRK 137. The Child and the Law. 3 Units
Term Typically Offered: Spring only

Both civil and criminal aspects of the relationship of the applicability and effect of the law on minors, including juvenile court, wardship and dependency, liability for torts, the child and divorce.

SWRK 138. Violence In The Family. 3 Units
Term Typically Offered: Fall only

Provides basic information on victims and perpetrators of violence in the family. The focus is on child maltreatment, spouse/partner battering, abuse of the elderly, and the roles and responsibilities of social workers responding to family violence.

SWRK 140A. Social Work Practice. 3 Units
Prerequisite(s): SWRK 95 and SWRK 125A; SWRK majors only; Junior standing and a grade of 'C' or better in all previous SWRK courses
Corequisite(s): SWRK 125B
Term Typically Offered: Fall, Spring

Provides an introduction to the profession and generalist social work practice with individuals, families, groups, organizations, and communities. Practice skills focus on application of the planned changed process from an empowerment approach.

SWRK 140B. Social Work Practice. 3 Units
Prerequisite(s): SWRK 95, SWRK 102, SWRK 125B, SWRK 140A, SWRK 150; SWRK majors only; senior standing; Minimum grade of 'C' in all previously completed SWRK courses; GWAR certification or having met university writing requirements
Corequisite(s): SWRK 195A
Term Typically Offered: Fall, Spring

Generalist practice through a cross-cultural lens. Focuses on culturally competent relationship building, assessment, and intervention with individuals, organizations and communities.

SWRK 140C. Social Work Practice. 3 Units
Prerequisite(s): SWRK 195A and SWRK 140B.
Corequisite(s): SWRK 195B
Term Typically Offered: Fall, Spring

Focuses on family intervention through an emphasis on strengths-based case management and children and youth issues. Group work processes and intervention examined through experiential and formal learning. Corequisite: SWRK 195B.

SWRK 144. Working with LGBTQ+ Publics. 3 Units
Prerequisite(s): Be a junior or senior undergraduate. Paired.
Term Typically Offered: Spring only

This elective provides students with an in-depth understanding and critical framework to conduct applied work with individuals who are LGBTQ+, and their kinship networks and communities. Various perspectives (e.g., person-in-environment, historical, political, psychological, critical theory, intersectional) are utilized to better understand contemporary issues, social and health inequities, and lived experiences of LGBTQ+ people. Assignments deepen self-awareness in service of professional development. This course is open to upper division undergraduates of all majors, and to all graduate students.

SWRK 150. Welfare In America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Examines the history, purpose, structure and costs of current American social welfare policy and programs and the role of social work in policy and program development.

SWRK 151. Health Services and Systems. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Examines the delivery of health and mental health service with a focus on problems experienced by economically disadvantaged and oppressed populations.

SWRK 153. Child Welfare Services. 3 Units
Term Typically Offered: Fall, Spring

Provides basic information on the recognition and treatment of problems of children in the home, school and community, and on the public and private social services and laws which promote and protect the welfare of children.

SWRK 191. Exploration of Veteran Studies: An Ethnographic Approach. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring

Through the review of ethnographic works, qualitative research articles and other significant recent literature on veterans' issues, students are introduced to the qualitative research process. Most significantly students simultaneously gain knowledge of the issues and challenges faced by veterans returning from combat as they transition to civilian life as well as the best practices in supporting positive transitions from combat to civilian life. Students will develop analytical thinking skills and writing skills for preparing literature reviews.

SWRK 195A. Field Instruction. 6 Units
Prerequisite(s): SWRK 102, SWRK 125A, SWRK 125B, SWRK 140A and SWRK 150 and permission of the Field Director (or designee).
Corequisite(s): SWRK 140B.
Term Typically Offered: Fall, Spring

Two semester sequence of instruction that takes place in a human service organization in the community wherein students demonstrate, under the auspices of a certified field instructor, their ability to apply the knowledge, practical skills, critical thinking/reasoning abilities, and interpersonal communication skills required of undergraduate level social works. Students must provide their own transportation to and from field sites, purchase malpractice insurance through the Division of Social Work.
Credit/No Credit

SWRK 195B. Field Instruction. 6 Units
Prerequisite(s): SWRK 102, SWRK 125A, SWRK 125B, SWRK 140A, SWRK 140B, SWRK 195A and SWRK 150; permission of the Field Director required.
Corequisite(s): SWRK 140C.
Term Typically Offered: Fall, Spring

Two-semester course sequence that takes place in a human service organization. Students demonstrate their ability to apply social work knowledge and practical skills. Students must provide their own transportation and purchase malpractice insurance through the Division of Social Work.
Note: Enrollment is limited to students who have secured an approved Field placement.

Credit/No Credit

SWRK 198. Co-Curricular Activities. 1 - 3 Units
Prerequisite(s): Permission of the Undergraduate Social Work Coordinator.
Term Typically Offered: Fall, Spring

Co-curricular activities related to the subject matter and intellectual concerns of the Division of Social Work, including service on division policy-making committees and participation in ASI approved organizations.
Credit/No Credit

SWRK 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor of the project and Division Chair.
Term Typically Offered: Fall, Spring

Independent research, project or directed reading.
Note: Open to students who are capable of independent work.

Credit/No Credit

SWRK 202. Social Work and Diverse Populations. 3 Units
Term Typically Offered: Fall, Spring

Prepares students to understand cultural and social diversity. Addresses theoretical and practice dimensions of social work with diverse and oppressed and vulnerable people for personal and social empowerment in behalf of human dignity and social justice.

SWRK 204A. Social Work Practice I. 3 Units
Corequisite(s): SWRK 295A.
Term Typically Offered: Fall, Spring

Building on the liberal arts framework and using the ecological model, this course introduces students to generalist social work practice with individuals, families, small groups, organizations, disadvantaged populations, communities, and society.

SWRK 204B. Social Work Practice II. 3 Units
Prerequisite(s): SWRK 204A, SWRK 295A.
Corequisite(s): SWRK 295B.
Term Typically Offered: Fall, Spring

Broadens the ecological perspective to address economic and political issues, social stratification, and racism as they impact practice with at-risk populations; promoting change at multiple levels of intervention.

SWRK 206A. Multi-Level Practice for Behavioral Health. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, and advancement to candidacy.
Corequisite(s): SWRK 296A
Builds upon content of SWRK 204B and provides advanced knowledge and skills for mental health assessments, diagnosis and treatment and to provide long-term and acute mental health treatment, respond to acute trauma and indigent populations.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 206B. Multi-Level Practice for Behavioral Health. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, SWRK 206A, SWRK 296A, and advancement to candidacy.
Corequisite(s): SWRK 296B
Builds upon content of SWRK 204B and provides advanced knowledge and skills for mental health assessments, diagnosis and treatment and to provide long-term and acute mental health treatment, respond to acute trauma and indigent populations.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 207A. Multi-Level Practice for Children & Families. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, and advancement to candidacy.
Corequisite(s): SWRK 297A
Builds upon content of SWRK 204B and provides advanced knowledge and skills in areas affecting children and families with a specific focus on training students in Child Protective Services, abuse, neglect and human trafficking.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 207B. Multi-Level Practice for Children & Families. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, SWRK 207A, SWRK 297A, and advancement to candidacy.
Corequisite(s): SWRK 297B
Builds upon content of SWRK 204B and provides advanced knowledge and skills in areas affecting children and families with a specific focus on training students in Child Protective Services, abuse, neglect and human trafficking.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 208A. Multi-Level Practice for Health & Aging. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B and advancement to candidacy.
Corequisite(s): SWRK 298A
Builds upon content of SWRK 204B and provides advanced knowledge and skills for hospital and hospice care, respond to the needs of Baby Boomers, support diversity in aging choices while assisting clients with management of health care, housing and quality of life optimization.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 208B. Multi-Level Practice for Health & Aging. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, SWRK 208A, SWRK 298A, and advancement to candidacy.
Corequisite(s): SWRK 298B
Builds upon content of SWRK 204B and provides advanced knowledge and skills for hospital and hospice care, respond to the needs of Baby Boomers, support diversity in aging choices while assisting clients with management of health care, housing and quality of life optimization.
Note: Enrollment is limited to students who have secured an approved Field placement

SWRK 210. Methods of Social Research. 3 Units
Prerequisite(s): Undergraduate social statistics course.
Term Typically Offered: Fall, Spring

Examination of quantitative and qualitative methods of social work research. Includes problem formulation, selection of various conceptual frameworks, research designs, sampling, collecting data, experimental design and computer technology.

SWRK 213. Public Child Welfare Practice. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B.
Term Typically Offered: Fall, Spring

Integrates the concepts and skills learned in Advanced Practice, Advanced Policy, and Research courses of the MSW program and applies to the specific client population of public child welfare agencies. Required for Title IV-E stipend students; open to others on basis of space availability.

SWRK 215. Mediation & Restorative Justice. 3 Units
Term Typically Offered: Fall, Spring

The course examines the principles, policies, goals, and practice of mediation and restorative justice in social work settings including the adult and juvenile criminal justice systems, family court, child welfare, schools, mental health, health, and community dispute resolution centers. Students will learn mediation and restorative justice practice skills to work effectively with individuals as both clients and providers of services, as well as within various institutions, systems, and communities.

SWRK 218. Chemical Dependence: Strategies and Tactics for Social Work Practice. 3 Units
Term Typically Offered: Fall, Spring

Designed to increase the sensitivity of graduate social work students to the major intervening variables contributing to the problem of chemical dependence in contemporary American society.

SWRK 219. Social Work Practice in Health Care Settings. 3 Units
Term Typically Offered: Fall, Spring

Provides intervention strategies useful in health care settings. Individual, family and group practice strategies are presented as well as discharge planning, advocacy, ethnically sensitive issues, and collaboration practice within hospital settings.

SWRK 221. Community Organizing Practice. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B or instructor permission.
Term Typically Offered: Fall, Spring

Focuses on intervention at the community level with a special emphasis on grass roots organizing and advocacy.

SWRK 223. DSM New Developments in Psychodiagnosis. 3 Units
Term Typically Offered: Fall, Spring

Designed to give practitioners and students hands-on experience in using the DSM IV Manual. Videotapes, case vignettes, and small group discussions used.

SWRK 224. Advanced Mental Health Practice. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B or instructor permission.
Term Typically Offered: Fall, Spring

Examines a variety of theoretical views on adaptations of childhood and adulthood with accompanying models for assessment and treatment. Explores current views on intra-psychic and interpersonal functioning utilized in mental health settings.

SWRK 225. Advanced Group Work Methods: Process and Intervention Strategies. 3 Units
Term Typically Offered: Fall, Spring

Covers small group theory and process, and group method in a variety of settings, with emphasis on group development.

SWRK 226. Family Intervention: Contemporary Issues in Social Work Practice. 3 Units
Term Typically Offered: Fall, Spring

Critically addresses the origins and contemporary context and models of interventions with families.

SWRK 228. Clinical Intervention in Sexual Abuse. 3 Units
Term Typically Offered: Fall, Spring

Presents an intervention system that can assist professionals to work with sexually abusive families and victims of sexual abuse. Assessment, planning, and treatment are described and methods of intervention demonstrated.

SWRK 232. Spirituality and Social Work. 3 Units
Term Typically Offered: Fall, Spring

Considers the role of spirituality in the socialization process of the professional as well as the client by examination of spirituality, values, ethics, principles, and philosophies as influences on personal and professional interactions.

SWRK 235A. Theoretical Bases of Social Behavior. 3 Units
Term Typically Offered: Fall, Spring

Examines the growth, change and interaction of individuals, families and groups, organizations, and communities with special attention to lifespan development and systems theory.

SWRK 235B. Theoretical Bases of Social Behavior. 3 Units
Prerequisite(s): SWRK 235A.
Term Typically Offered: Fall, Spring

Focuses on major personality theories; principal theories of health, illness and disordered behavior; child and family dynamics; and theories of group and organizational behavior.

SWRK 238A. Issues and Practice in Schools. 3 Units
Prerequisite(s): Admission to the College of Social Work Program.
Corequisite(s): SWRK 204C, SWRK 295C.
Term Typically Offered: Fall, Spring

Introduces the student to the field of school social work in its dynamic social, educational, legal, political, and human complexity. Examines the challenges of rapid social and demographic change in California as well as the need for restructuring education and innovative responses.
Note: Required for Pupil Personnel Services Credential.

SWRK 238B. Issues and Practice in Schools. 3 Units
Prerequisite(s): SWRK 204C, SWRK 238A, SWRK 295C.
Corequisite(s): SWRK 204D, SWRK 295D.
Term Typically Offered: Fall, Spring

Continuation of SWRK 238A, course examines classroom management, case assessment, alternative education practices, discipline and attendance law, impediments to individual development as well as case studies, interagency collaboration, new community partnerships, and media and high technology uses.
Note: Required for Pupil Personnel Services Credential.

SWRK 244. Working with LGBTQ+ Publics. 3 Units
Prerequisite(s): MSW I or II, or other graduate student. Paired.
Term Typically Offered: Spring only

This elective provides students with an in-depth understanding and critical framework to conduct applied work with individuals who are LGBTQ+ and their kinship networks and communities. Various perspectives (e.g., person-in-environment, historical, political, psychological, critical theory, intersectional) are utilized to better understand contemporary issues, social and health inequities, and lived experiences of LGBTQ+ people. Assignments deepen self-awareness in service of professional development. This course is open to upper division undergraduates of all majors, and to all graduate students.

SWRK 245. Death, Grief And Growth. 3 Units
Term Typically Offered: Fall, Spring

Death and the process of terminating life seen from the social, cultural, personal and medical perspectives. Comparisons of competing, contradictory or complementary views of death among specific religions, social classes, ethnic groups and superstitions and taboos connected with the dead.

SWRK 250. Social Welfare Policy and Services. 3 Units
Term Typically Offered: Fall, Spring

Analyzes contemporary social welfare policy and the ways in which policy is carried out through a broad spectrum of agencies and services, in a historical and philosophical context relevant to professional social workers. This course meets the foundation competencies of social welfare policies and services within the specific context of thinking, reading and writing in social work policy practice.
Note: Graduate Writing Intensive (GWI) course.

SWRK 252. Advanced Policy for Behavioral Health. 3 Units
Prerequisite(s): SWRK 250 and advancement to candidacy.
Builds on the foundation content of SWRK 250 with deeper knowledge of diverse theoretical and practical approaches to policy analysis, development, implementation, and evaluation to empower communities and individuals, to advance and protect human rights, and to optimize social justice. Focuses on Behavioral Health policy and services, involuntary commitment, access to care and patients' rights, financing and organization of Behavioral Health services, legislation and community engagement around Behavioral Health issues.

SWRK 253. Advanced Policy for Children & Families. 3 Units
Prerequisite(s): SWRK 250 and advancement to candidacy
Builds on the foundation content of SWRK 250 with deeper knowledge of diverse theoretical and practical approaches to policy analysis, development, implementation, and evaluation to empower communities and individuals, to advance and protect human rights, and to optimize social justice. Focuses on sociopolitical issues, laws and court decisions, history and role of government in public child welfare practice, children's and parents' rights, child custody, sexual abuse laws, and emancipation.

SWRK 254. Advanced Policy for Health & Aging. 3 Units
Builds on the foundation content of SWRK 250 with deeper knowledge of diverse theoretical and practical approaches to policy analysis, development, implementation, and evaluation to empower communities and individuals, to advance and protect human rights, and to optimize social justice. Focuses on the policies and services for meeting the health, economic, psychological, and the social needs of the older adults and those in health care settings.

SWRK 258. Advanced Policy - Children and Families. 3 Units
Prerequisite(s): SWRK 251.
Term Typically Offered: Fall, Spring

Building upon SWRK 251, this course examines the history of child and family services, introduces the students to theories and methods of policy analysis, and focuses on analysis of selected federal, state, and local policies specifically relevant to children and families, as well as how social workers influence policy formulation and implementation.
Note: Required for title IV-E students.

SWRK 259. International Social Work. 3 Units
Term Typically Offered: Fall, Spring

SWRK 261. Grant Writing and Resource Development. 3 Units
Term Typically Offered: Fall, Spring

Prepares students for resource and grant proposal development as well as grant project management and evaluation. Students will develop various skills including how to identify and communicate with appropriate funding sources conceptualize, write and submit a grant proposal prepare a grant budget; administer a grant funded program; and evaluate program outcomes, and peer reviews of grant proposals.

SWRK 262. Social Work Practice in Rehabilitation. 3 Units
Prerequisite(s): Admission to MHSA cohort and instructor permission.
Term Typically Offered: Fall, Spring

Reflects the current best practices of psychosocial rehabilitation, and pays particular attention to the nuances of those practice expectations within the context of the Mental Health Services Act of 2004. The course requirement for all students who are recipients of the mental health stipend in the Division of Social Work.

SWRK 268. Advanced Clinical Social Work with Older Adults. 3 Units
The focus of this course is on specialized practice with aging clientele. The curriculum is intended to help students adapt social work theory (person-in-environment), practice principles, standards and values to practice with older adults. This course includes a critical analysis of the theoretical underpinnings of gerontological thought and assists students to view aging through multiple perspectives with an examination of physiological, psychological and sociological phenomenon.

SWRK 295A. Field Instruction. 3 Units
Prerequisite(s): Must be classified graduate Social Work student and approval of the Field Director or designee.
Corequisite(s): SWRK 204A.
Term Typically Offered: Fall, Spring

Field Instruction
Note: Enrollment is limited to students who have secured an approved Field placement

Credit/No Credit

SWRK 295B. Field Instruction. 4 Units
Prerequisite(s): SWRK 204A and 295A; Must be classified graduate Social Work student and approval of the Field Director or designee.
Corequisite(s): SWRK 204B.
Term Typically Offered: Fall, Spring

Field Instruction
Note: Enrollment is limited to students who have secured an approved Field placement.

Credit/No Credit

SWRK 295E. Post Master's Pupil Personnel Services Fieldwork. 3 Units
Prerequisite(s): Admission to Post Master's PPS program.
Term Typically Offered: Fall, Spring

School based sites for the development of Pupil Personnel Services skills. Two days per week.
Credit/No Credit

SWRK 295F. Post Master's Pupil Personnel Services Fieldwork. 3 Units
Prerequisite(s): Admission to Post Master's PPS program.
Term Typically Offered: Fall, Spring

School based sites for the development of Pupil Personnel Services skills. Two days per week.
Credit/No Credit

SWRK 296A. Field Instruction for Behavioral Health. 5 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, and advancement to candidacy.
Corequisite(s): SWRK 206A
Field Instruction for Behavioral Health
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 296B. Field Instruction for Behavioral Health. 5 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, SWRK 206A, SWRK 296A, and advancement to candidacy
Corequisite(s): SWRK 206B
Field Instruction for Behavioral Health
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 296D. Advanced Social Work Practice with Persons with a Developmental Disability. 3 Units
The definition, incidence, etiology, and prevention of developmental disabilities will be presented. This course also examines the life course needs of people with developmental disabilities including the collaboration of families and community, the role of social workers and other health professionals in the California Regional Center System and the Department of Developmental Disabilities, as well as presenting general issues related to service delivery systems, advocacy movements, criminal justice system involvement, mental health, sexuality issues as well as social policy issues.

SWRK 297A. Field Instruction for Children & Families. 5 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, and advancement to candidacy.
Corequisite(s): SWRK 207A
Field Instruction for Children & Families
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 297B. Field Instruction for Children & Families. 5 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, SWRK 207A, SWRK 297A, and advancement to candidacy.
Corequisite(s): SWRK 207B
Field Instruction for Children & Families
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 298A. Field Instruction for Health & Aging. 5 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, and advancement to candidacy.
Corequisite(s): SWRK 208A
Field Instruction for Health & Aging
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 298B. Field Instruction for Health & Aging. 5 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, SWRK 208A, SWRK 298A, and advancement to candidacy
Field Instruction for Health & Aging
Note: Enrollment is limited to students who have secured an approved field placement.

SWRK 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval by faculty sponsor and division director.
Term Typically Offered: Fall, Spring

Individual research and directed reading. Written report required.
Credit/No Credit

SWRK 500. Culminating Experience. 2 - 4 Units
Prerequisite(s): Advanced to candidacy. SWRK 210.
Term Typically Offered: Fall, Spring

Completion of either: A. Thesis (an original contribution to knowledge) OR B. Research Project (addition to technical/professional knowledge or application of knowledge through case study, field study, documentary report, substantial annotated bibliography, or article of publishable quality) OR C. Directed Study and Comprehensive Examination (seminar, portfolio, examination).

SWRK 501. Advanced Research Methods. 2 Units
Prerequisite(s): SWRK 202, SWRK 204A, SWRK 204B, SWRK 210, SWRK 250 and Advancement to Candidacy
Term Typically Offered: Fall, Spring

This course offers a classroom structure to project-based research education. Class includes both qualitative and quantitative study design, theory construction, advanced methods of data analysis. This course expands on the knowledge gained from SWRK 210 (Methods of Research). Students will experience a mixture of advanced research content including: quantitative research designs, sampling, data collection and analysis, advanced quantitative research designs, sampling, data collection and analysis.

SWRK 502. Integrative Capstone Project. 2 Units
Prerequisite(s): SWRK 501
Term Typically Offered: Fall, Spring

This course is designed to reflect the student's proficiency in the core competencies of the social work profession. The focus of this course is the identification of a social work problem, developing a research design which appropriately addresses the problem, and presentation of the findings. Students demonstrate professional competencies in: ethics, communication, diversity, theory, research, direct and indirect and indirect practice, leadership and organizational processes and evidence of a professional self.

BA in Social Work

Units required for Major: 48
Total units required for BA: 120

Program Description

The Bachelor of Arts in Social Work is a 48-unit program that prepares students for beginning, generalist Social Work practice. All lower division general education courses must be completed prior to beginning the Social Work major. The curriculum consists of 42 units in professional foundation/beginning generalist requirement, 6 units of Social Work electives. Grades of 'C' or better are required in all 48 units of the major. The student must agree to abide by the Code of Ethics of the National Association of Social Workers and engage in ethical practice in conformity with the Professional Code of Ethics.

Undergraduate students enroll in one academic year of field instruction (internship) during their senior year after successfully completing all prerequisites in their junior year. Field instruction is 16 hours per week for 32 weeks during two semesters for a total of 512 hours. Field instruction takes place between the hours of 8:00 a.m. - 5:00 p.m. on either Mondays/Wednesdays or Wednesdays/Fridays. Placements only begin in the fall semester and are arranged by the Director of Field Education during the preceding spring semester through an application and interview process. Students are placed in a social services agency and practice under the supervision of an experienced MSW Social Worker. Since Social Work is an applied profession, the student is expected to be able to put into practice the knowledge gained in the classroom in order to receive the BA degree in Social Work.

Students must be capable of meeting field site/organization eligibility requirements which normally include obtaining a Department of Justice clearance (passing a criminal background), being free of communicable diseases, having a valid driver's license, and automobile insurance. In addition to the prerequisites and corequisites noted below, other eligibility requirements are delineated in the Field Curriculum and Policy Guide which is accessible from the Division's field website (http://www.hhs.csus.edu/swrk/field/). Declaration of Social Work as the student's major does not guarantee enrollment in field instruction.

Pre-Major Requirements for Social Work Undergraduate Program

The Pre-Major is a total of 9 units, 3 units from G.E. Area B2, 3 units in Area D (Part A) and 3 units in Area D (Part B).

Students who want to become a Pre-Major in Social Work are required to take the courses from the following three G.E. areas, and earn a 'B' grade or better ('B-' is not accepted). Students must also have at least 2.5 GPA to declare the major.

Code	Title	Units
Area B2 Life Forms (3 Units)		
Select one of the following:		*3*
BIO 1	Biodiversity, Evolution and Ecology	
BIO 10	Basic Biological Concepts	
BIO 20	Biology: A Human Perspective	
ANTH 1	Introduction to Biological Anthropology	
Area D The Individual and Society (Part A) (3 Units)		
Select one of the following:		*3*
ECON 1A	Introduction to Macroeconomic Analysis	
ECON 1B	Introduction to Microeconomic Analysis	
PSYC 2	Introductory Psychology	
SOC 1	Principles of Sociology	
Area D The Individual and Society (Part B) (3 Units)		
Select one of the following:		*3*
CRJ 1	Introduction to Criminal Justice and Society	
GERO 100	Aging Issues in Contemporary America	
SOC 3	Social Problems	
SOC 10	Issues in Crime and Social Control	
Total Units		9

Recommended Lower Division Preparation

Completion of all lower division General Education requirements is a prerequisite for taking courses in the Social Work major. Lower division courses in the following areas are strongly recommended and most can be taken as part of completing GE requirements. These courses provide the basis for a Liberal Arts perspective which is required by the Council on Social Work Education, the accrediting organization for the professional Social Work degree: written communication; critical thinking; physical science; a biology course with human anatomy content; quantitative reasoning; world civilizations; introduction to the arts; humanities; psychology; sociology; cultural diversity; American Institutions; and foundations in social and behavioral sciences.

Community college transfer students should consult a counselor to identify courses which qualify for General Education transfer credit.

Minimum Grade Requirement

Grades of 'C' or better are required in all 48 units of the major.

Program Requirements

Code	Title	Units
Required Lower Division Courses (3 Units)		
SWRK 95	Introduction to Social Work	3
Required Upper Division Courses (45 Units)		
Professional Foundation/Beginning Generalist		
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class [1]	3
SWRK 110	Statistics and Research for Social Workers	3
SWRK 111	Research Methods and Program Evaluation	3
SWRK 125A	Human Behavior and the Social Environment: Theory	3
SWRK 125B	Human Behavior and the Social Environment: The Life Course	3
SWRK 140A	Social Work Practice	3
SWRK 140B	Social Work Practice	3
SWRK 140C	Social Work Practice	3
SWRK 150	Welfare In America [1]	3
SWRK 195A	Field Instruction	6
SWRK 195B	Field Instruction	6
Social Welfare Policy and Human Behavior		
Select two of the following:		*6*
SWRK 118	Chemical Dependency and Social Work Practice	
SWRK 126	Theories of Criminal Behavior [1]	
SWRK 129	Human Sexuality in Social Work Perspectives	
SWRK 132	Social Work and Spirituality	
SWRK 134	Crimes Without Victims	
SWRK 136	Poverty and Homelessness in America	
SWRK 137	The Child and the Law	
SWRK 138	Violence In The Family	
SWRK 151	Health Services and Systems	
SWRK 153	Child Welfare Services	
SWRK 191	Exploration of Veteran Studies: An Ethnographic Approach [1]	
Total Units		48

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms [2]		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (0-6 Units)		
Area D Course [3]		0 - 3
Area D Course [4]		0 - 3
Area D Course [5]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [5]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		37-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department recommends BIO 1, BIO 10, BIO 20, or ANTH 1 to meet Area B2.

[3] Department recommends ECON 1A, ECON 1B, PSYC 2, or SOC 1 to meet Area D (Part A).

[4] Department recommends CRJ 1, GERO 100, SOC 3, or SOC 10 to meet Area D (Part B).

[5] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6-9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0 - 3
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [3]		0
Foreign Language Proficiency Requirement [4]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department recommends SWRK 126 or SWRK 191 to meet the Writing Intensive (WI) Graduation Requirement.

[3] Required in Major; also satisfies Graduation Requirement.

[4] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Master of Social Work

Total units required for MSW: 60

Program Description

The Master of Social Work program is a 60-unit program that prepares students for advanced, autonomous Social Work practice. The curriculum is composed of two semesters of professional foundation and two semesters of a specialized curriculum. In the foundation part of the program, all students take a core of courses designed to provide them with the knowledge and skills expected of all professional Social Workers. The advanced curriculum prepares graduates for specialized practice in 1 of 3 areas; behavioral health; child, adolescent and family; or health and aging. The curriculum consists of a generalist practice foundation year and an advanced practice second year. Also required are advanced courses in Social Work practice and policy, and specialized practice electives are recommended.

Graduate students enroll for two years of field instruction. In the first year, they are assigned to a social service agency for two days a week (8 a.m. to 5 p.m., Thursday and Friday). First year students must be available Thursdays and Fridays (8 a.m. to 5 p.m.) for field instruction in order to complete the concurrent program. In the second year, they are assigned to an agency in their specialized practice area for three days a week (8 a.m. to 5 p.m., Monday, Tuesday, and Wednesday). These field instruction requirements may only be fulfilled during regular working hours. Students are responsible for their own transportation to field instruction sites and for required professional liability insurance.

Students must be capable of meeting field site/organization eligibility requirements which include obtaining a Department of Justice clearance (passing a criminal background), being free of communicable diseases, having a valid driver's license, and automobile insurance. In addition to the prerequisites and corequisites noted below, other eligibility requirements are delineated in the Field Curriculum and Policy Guide which is accessible from the Division's field website (http://csus.edu/hhs/sw/fieldeducation/). Admission into the graduate program does not guarantee enrollment in field instruction.

Students should develop a realistic plan for financial support for the period of time they are in school. Information about Financial Aid is included in the University's Application for Admission booklet. The Division of Social Work cannot guarantee courses on days and times that will not conflict with employment hours. The program offers some courses on weekends and all required courses have at least one evening section. In addition to the two-year full time program, the division also offers a three-year program option, a weekend cohort program, and advanced placement.

Note: Please contact the Division of Social Work for a copy of the evaluation criteria for admission to the Master of Social Work program.

Admission Requirements

To be considered for admission to the Master of Social Work program, applicants must have:

- a baccalaureate degree from an accredited college or university;
- passed an approved course in statistics with a grade of "C" or better;
- completed a course with human biology content with a grade of 'C' or better;
- a minimum GPA of 2.8 for the last 60 units of coursework;
- demonstrated writing proficiency; and
- completed the Liberal Arts foundation (GE requirements).

The Graduate Record Exam (Analytical Writing Score) is required.

The Analytical Writing score is weighted and combined with the last 60 unit GPA and the application review scores. There is no minimum score requirement for the GRE Analytical Writing Portion.

If admitted applicant scores less than 4.5 on the GRE Writing exam, she/he would not necessarily be eliminated from the pool, however, would be required to take and pass a writing intensive course in the summer, prior to Fall enrollment.

All applications are reviewed by Faculty Reviewers. Previous academic work, experience in human services, personal development, and potential for successful professional practice are important considerations in the evaluation of applicants.

Admission Procedures

Application materials are available from the Division of Social Work's admissions office and our Web site at http://www.csus.edu/hhs/sw/msw/mswapplication.html. *For more admissions information and application deadlines please visit* http://www.csus.edu/gradstudies/.

All applicants must complete an online university application for admission and a Sacramento State Division of Social Work Application.

Students rank their preferred specializations based upon the three options:

- Behavioral Health
- Children & Families
- Health & Aging.

All prospective graduate students, including Sacramento State graduates, must submit the following to the Division of Social Work Admissions Office:

- an application for admission and supplemental information needed by the Division of Social Work; including the choice of Specialized Area of practice in order of priority.
- an indication whether the application is for the two- or three-year program;

- three letters of recommendation from academic or employment references; and
- one set of unofficial transcripts from all colleges and universities attended, *other than Sacramento State.*

Applicants must submit the following to the Sacramento State Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for admission; and
- one set of official transcripts from all college and universities attended, *other than Sacramento State*.

Attendance at an advising session prior to the beginning of classes is required. Students unable to attend must make special arrangements for the initial advising prior to the beginning of courses.

Advanced Standing Program

The Advanced Standing Program is available to a limited number of students who have a baccalaureate degree in Social Work from a Social Work program accredited by the Council on Social Work Education. The minimum GPA is 3.3 in the Social Work major. Minimum grades of "B +" must have been earned in undergraduate professional foundation coursework. Students who have a GPA of 3.5 or higher but have **ONE** of their equivalent undergraduate courses with the grade of 'B' may apply for advanced standing. The degree must have been awarded within five years prior to application for admission to the graduate program. Submission of a letter of recommendation from a field instructor and from a Social Work faculty member of the college from which graduated and an acceptable research prospectus for a thesis/research project is required before awarding advanced placement. Advanced placement students take 32 units in the second year of the MSW program. Advanced placement is determined only during the admissions process.

Minimum Units and Grade Requirement for the Degree

Units require for the MSW: 60

Minimum Cumulative GPA: 3.0

Students must take all required courses in a prescribed, sequential order to advance to the next level of courses. The program is normally completed in four semesters of full time study, beginning in the fall semester (a three-year program is also available; requirements are the same). The program consists of 28 units of professional foundation common courses that all students must take and 32 units of the concentration curriculum which consists of advanced content and nine units of electives. **Graduate students who achieve a grade of 'C-' or lower will not be able to credit that course toward their degree; and, must maintain a minimum 3.0 GPA to remain in the program. A student could receive two 'C' grades in the Master's program and continue as long as their GPA does not go below a 3.0.**

Note: The faculty of the Division of Social Work may require a student to leave under specified terms, terminate a student's enrollment, or decline to award a degree if the Director of the Division, upon the recommendation of faculty, determines that this is in the best interests of the division or the community which it serves or that a student is not qualified for admission to the Social Work profession because of factors other than academic standing. Determination about factors other than academic standing are made in accordance with the NASW Code of Ethics and the Division of Social Work's Student Performance Standards.

All professional Social Work programs are required to provide foundation content that consists of the knowledge, values, and skills that are basic for practice in any setting situation, and which prepare one for more advanced, specialized learning. Six areas of study are introduced in the foundation: Social Work research, Social Work practice, human behavior in the social environment, social welfare policy, multicultural theory, practice, and field instruction.

In the second year of the program students will be asked to select from three specializations

- Behavioral Health
- Children & Families
- Health & Aging

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any grade deficiencies;
- completed at least 28 units; graduate students who achieve a grade of 'C-' or lower will not be able to credit that course toward their degree
- a minimum 3.0 GPA required
- obtained approval of culminating experience; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with his/her Advisor. The completed form is approved by the Division of Social Work, Graduate Director and the Office of Graduate Studies.

Program Requirements

Code	Title	Units
Professional Foundation Requirements (28 Units)		
SWRK 202	Social Work and Diverse Populations	3
SWRK 204A	Social Work Practice I	3
SWRK 204B	Social Work Practice II	3
SWRK 210	Methods of Social Research	3
SWRK 235A	Theoretical Bases of Social Behavior	3
SWRK 235B	Theoretical Bases of Social Behavior	3
SWRK 250	Social Welfare Policy and Services	3
SWRK 295A	Field Instruction	3
SWRK 295B	Field Instruction	4
Specialized Practice Requirements (19 Units)		
Select one area of specialization from the three listed below		*19*
Behavioral Health Specialization		
SWRK 206A	Multi-Level Practice for Behavioral Health	
SWRK 206B	Multi-Level Practice for Behavioral Health	
SWRK 252	Advanced Policy for Behavioral Health	
SWRK 296A	Field Instruction for Behavioral Health	
SWRK 296B	Field Instruction for Behavioral Health	
Children and Families Specialization		
SWRK 207A	Multi-Level Practice for Children & Families	

SWRK 207B	Multi-Level Practice for Children & Families	
SWRK 253	Advanced Policy for Children & Families	
SWRK 297A	Field Instruction for Children & Families	
SWRK 297B	Field Instruction for Children & Families	
Health and Aging Specialization		
SWRK 208A	Multi-Level Practice for Health & Aging	
SWRK 208B	Multi-Level Practice for Health & Aging	
SWRK 254	Advanced Policy for Health & Aging	
SWRK 298A	Field Instruction for Health & Aging	
SWRK 298B	Field Instruction for Health & Aging	
Specialized Areas of Practice Electives (not all electives are offered each semester) (9 Units)		
Select a total of nine units		*9*
SWRK 213	Public Child Welfare Practice	
SWRK 215	Mediation & Restorative Justice	
SWRK 219	Social Work Practice in Health Care Settings	
SWRK 218	Chemical Dependence: Strategies and Tactics for Social Work Practice	
SWRK 221	Community Organizing Practice	
SWRK 223	DSM New Developments in Psychodiagnosis	
SWRK 224	Advanced Mental Health Practice	
SWRK 225	Advanced Group Work Methods: Process and Intervention Strategies	
SWRK 226	Family Intervention: Contemporary Issues in Social Work Practice	
SWRK 228	Clinical Intervention in Sexual Abuse	
SWRK 232	Spirituality and Social Work	
SWRK 245	Death, Grief And Growth	
SWRK 258	Advanced Policy - Children and Families	
SWRK 259	International Social Work	
SWRK 261	Grant Writing and Resource Development	
SWRK 262	Social Work Practice in Rehabilitation	
Culminating Experience Choices (for all three specialized practice areas) (4-6 Units)		
SWRK 500	Culminating Experience	2 - 4
or SWRK 501	Advanced Research Methods	
SWRK 502	Integrative Capstone Project	2
Total Units		60-62

Every effort is made to match the second year specialized area of practice student with a SWRK 500, SWRK 501 or SWRK 502 experience that is designed as an advanced research experience within the student's selected area of specialized practice.

Advanced Standing Program Requirements

Code	Title	Units
Specialized Practice Requirements (19 Units)		
Select one area of specialization from the three listed below		*19*
Behavioral Health Specialization		
SWRK 206A	Multi-Level Practice for Behavioral Health	
SWRK 206B	Multi-Level Practice for Behavioral Health	
SWRK 252	Advanced Policy for Behavioral Health	
SWRK 296A	Field Instruction for Behavioral Health	
SWRK 296B	Field Instruction for Behavioral Health	
Children and Families Specialization		
SWRK 207A	Multi-Level Practice for Children & Families	
SWRK 207B	Multi-Level Practice for Children & Families	
SWRK 253	Advanced Policy for Children & Families	
SWRK 297A	Field Instruction for Children & Families	
SWRK 297B	Field Instruction for Children & Families	
Health and Aging Specialization		
SWRK 208A	Multi-Level Practice for Health & Aging	
SWRK 208B	Multi-Level Practice for Health & Aging	
SWRK 254	Advanced Policy for Health & Aging	
SWRK 298A	Field Instruction for Health & Aging	
SWRK 298B	Field Instruction for Health & Aging	
Specialized Areas of Practice Electives (not all electives are offered each semester) (9 Units)		
Select a total of nine units		*9*
SWRK 213	Public Child Welfare Practice	
SWRK 215	Mediation & Restorative Justice	
SWRK 219	Social Work Practice in Health Care Settings	
SWRK 218	Chemical Dependence: Strategies and Tactics for Social Work Practice	
SWRK 221	Community Organizing Practice	
SWRK 223	DSM New Developments in Psychodiagnosis	
SWRK 224	Advanced Mental Health Practice	
SWRK 225	Advanced Group Work Methods: Process and Intervention Strategies	
SWRK 226	Family Intervention: Contemporary Issues in Social Work Practice	
SWRK 228	Clinical Intervention in Sexual Abuse	
SWRK 232	Spirituality and Social Work	
SWRK 245	Death, Grief And Growth	
SWRK 258	Advanced Policy - Children and Families	
SWRK 259	International Social Work	
SWRK 261	Grant Writing and Resource Development	
SWRK 262	Social Work Practice in Rehabilitation	
Culminating Experience Choices (for all three specialized practice areas) (4-6 Units)		
SWRK 500	Culminating Experience	2 - 4
or SWRK 501	Advanced Research Methods	
SWRK 502	Integrative Capstone Project	2
Total Units		32-34

Every effort is made to match the second year specialized area of practice student with a SWRK 500, SWRK 501 or SWRK 502 experience that is designed as an advanced research experience within the student's selected area of specialized practice.

College of Natural Sciences and Mathematics

College Overview

The College of Natural Sciences and Mathematics emphasizes hands on experience and interaction with professors. Students in the classroom have access to state-of-the art instruments and unique facilities such as the two-story anechoic chamber for measuring sound and the well field for monitoring ground water. The College offers strong academic programs in Biological Sciences, Chemistry, Geography, Geology, Mathematics and Statistics, and Physics and Astronomy.

The College's six academic departments collectively offer thirteen baccalaureate degree programs, eight minor concentrations, four teaching credential programs, four certificate programs, and six Master's degree programs, including the Professional Science Master's. Unique strengths of programs within the College include the following:

Program Descriptions

Program Descriptions

Biology

The Department of Biological Sciences offers a wide array of educational opportunities in biology. Students may enroll in programs designed to give broad training across the biological sciences and earn a Bachelor of Arts or Bachelor of Science degree in General Biology. Students wishing to specialize in a sub-discipline of biology may enroll in several concentrations within the Bachelor of Science Program. Available concentrations include Biomedical Sciences, Cell and Molecular Biology, Clinical Laboratory Science, Forensic Biology, Microbiology, and Ecology, Evolution and Conservation. The Department also offers the Minor in Biological Sciences to students from other Departments. The location of Sacramento State is ideal for diverse field trip experiences from the Sierra to the Pacific as well as both laboratory and field internship opportunities with County, State, and Federal agencies. The Department also offers state-of-the-art laboratory facilities including students access to the Advanced Cell Analysis Laboratory, the Center for Interdisciplinary Molecular Biology, and Moss Landing Marine Laboratory.

At the Graduate level, the Department of Biological Sciences offers both general and specialized Masters of Arts and Masters of Science degree programs in Biological Sciences. This includes a Masters of Arts degree in Stem Cell Biology, funded by the California Institute of Regenerative Medicine in collaboration with the University of California, Davis. The Department also offers Masters of Science concentrations in General Biology, Cell and Molecular Biology, and Ecology, Evolution and Conservation.

Graduates from the Department of Biological Sciences may pursue a variety of professions, including health and medicine, biotechnology and other laboratory-based research, and work with state and federal agencies. Many also pursue graduate education within one of the many sub-disciplines of biology.

Chemistry

Chemistry prepares students for a wide variety of careers in areas such as environmental chemistry and toxicology, materials science, government and industry labs, biotechnology, high school science teaching, medicine and related health sciences, pharmacy and pharmacology, patent law, computational chemistry, forensic analysis, and many more. The Department of Chemistry offers the BS in Chemistry (certified by the American Chemical Society), a BS in Biochemistry, and BA degrees including concentrations in Biochemistry and Forensic Chemistry. A Chemistry Minor is also offered. The Department offers an MS in Chemistry and an MS in Chemistry, Biochemistry concentration. A signature feature of our programs is the extensive, hands-on experience with modern instrumentation. Our graduates are known in the region for their knowledge and ability to operate instruments. Every undergraduate degree program includes a capstone laboratory research experience in one or more upper division labs which further prepares students for industry employment and preparation for PhD programs.

Geography

Geography prepares students to do mapping and spatial analysis, international work, planning, and environmental management. The Department of Geography offers a BA degree that provides each student both breadth and specialization. Four concentrations are available: Geographic Information Systems (GIS) and Analysis, Human Geography, Metropolitan Area Planning, and Physical Geography. The Department also offers minors in Geography and GIS. Strengths of the program include numerous opportunities for field work and internships.

Geology

Geology is an interdisciplinary science that examines the processes that shape Earth's resources, hazards and environments. The Geology Department offers BA, BS, and MS degrees in Geology; a BA in Earth Science, and a Minor in Geology. This Department, in conjunction with the on-campus staff of the United States Geological Survey, offers excellent preparation for careers in Geology and graduate study.

Mathematics and Statistics

The Department of Mathematics and Statistics offers a variety of options to cater to the particular interests of its majors. The flexibility of the major allows students to pursue their BA degree in pure mathematics, applied mathematics and statistics, or the teaching program. Graduates have met with much success in finding employment in both the public and private sectors, particularly in high school teaching and local private industry. The Department also offers Minors in Mathematics and Statistics, and a MA degree for those who wish to pursue advanced study that can open opportunities to teach at the community college level, to pursue a PhD in mathematics, or to take jobs in industry or government.

Physics and Astronomy

The Department of Physics and Astronomy offers several degree options in Physics. The BS in Physics is suited for those planning to earn an advanced degree in physics or a related field. The BS with the Applied Physics Concentration combines advanced physics coursework with practical skills such as instrumentation and computing for careers in the high technology sector. Our traditional BA degree in physics provides a flexible, yet rigorous program in the liberal arts tradition, while those electing the BA with the Teacher Preparation Concentration will be very well prepared for a career as a high school or middle school educator. The Department also offers Minors in Physics and Astronomy and Certificates in Scientific Instrument Development and Scientific Computing and Simulation.

The College also supports a number of college-wide programs. Some of the larger ongoing programs are:

Center for Science and Math Success

The Center for Science and Math Success (Success Center) is housed in the College of Natural Sciences and Mathematics (NSM) and provides innovative and comprehensive student and academic support services to students in math and science courses. Programs include:

- Science Education Equity (SEE) (https://www.csus.edu/college/natural-sciences-mathematics/center-science-math-success/science-educational-equity-see.html)
- Peer Assisted Learning (PAL) (https://www.csus.edu/college/natural-sciences-mathematics/peer-assisted-learning-program-pal/)
- Commit to Study (C2S) (https://www.csus.edu/college/natural-sciences-mathematics/center-science-math-success/commit-study.html)
- Pre-STEM Teaching (https://www.csus.edu/college/natural-sciences-mathematics/center-science-math-success/pre-stem-teaching.html)
- Undergraduate Research (https://www.csus.edu/college/natural-sciences-mathematics/center-science-math-success/)

The Success Center empowers students to achieve their personal and professional goals through equity-based programs that cultivate life-long learning skills, leadership development and a sense of belonging community. For more information, you can contact the Success Center via email (scienceandmathsuccess@csus.edu) or visit their website (https://www.csus.edu/college/natural-sciences-mathematics/center-science-math-success/).

Center for Mathematics and Science Education

The mission of the MASE Center at Sacramento State is to improve the quality of mathematics and science teaching and learning in the schools of the Sacramento region. The MASE Center supports faculty from the Colleges of Natural Sciences and Mathematics and Education to develop and administer professional development projects for K-12 teachers and education research grants to improve the teaching of math and science at all levels. The MASE Center houses the Sacramento Area Science Project and the Sacramento State Mathematics Project, and hosts monthly short courses for teachers such as Science in the River City (SIRC) and Mathematics Saturday Seminars. For more information, contact Director Rich Hedman at (916) 278-5487 or via email (hedmanrd@csus.edu). For more information about the Center for Mathematics and Science Education, please click here (http://www.csus.edu/mase/).

Moss Landing Marine Laboratories

Moss Landing Marine Laboratories are located on Monterey Bay. The facility is operated by a consortium of six California State University campuses and offers upper division and graduate courses in marine sciences.

Premedical and Preprofessional Programs

The College of Natural Sciences and Mathematics offers coursework which allows students to prepare for medical, dental, optometry, podiatry, pharmacy, and veterinary school. Information on the preparation necessary for entry into these health professions is found in the Premedical pages of this catalog.

Subject Matter Preparation (Pre-Credential Preparation)

California State University, Sacramento has programs for students who are interested in becoming high school or middle school teachers in science or mathematics. These programs consist of two parts: subject matter preparation programs (in which students learn the background in the subject matter they will teach) and credential programs (in which students develop the knowledge and skills related to how to teach). The College of Natural Sciences and Mathematics offers subject matter preparation programs in Biological Sciences, Chemistry, Mathematics, and Physics. Single Subject Teaching Credential programs are offered by the California State University, Sacramento College of Education. Additionally, California State University, Sacramento offers a blended program in mathematics, in which students work on their subject matter preparation and teaching credential at the same time. Information on subject matter programs in Biological Sciences, Chemistry, and Physics is found in the Science Subject Matter Program pages in this catalog. Information on the subject matter program in mathematics and the blended program in mathematics is found in the Mathematics and Statistics pages.

Departments/Programs

- Biological Sciences
- Chemistry
- Geography
- Geology
- Mathematics and Statistics
- Physics and Astronomy

Contact Information

- Lisa Hammersley, Dean (Interim)
- Shannon Datwyler, Associate Dean, Interim (Student Success)
- Yinfa Ma, Associate Dean (Research & Engagement)
- Laura Emerson, Administrative Analyst/Specialist
- Rose Castillo, Administrative Support Coordinator
- Naomi Robinson, Administrative Support Coordinator

For more information, visit the web site for the College of Natural Sciences and Mathematics (http://www.csus.edu/nsm/).
Tschannen Science Complex 5002
(916) 278-4655

Biological Sciences

College of Natural Sciences and Mathematics

Program Description

The Department of Biological Sciences offers both undergraduate and graduate degree programs. At the undergraduate level, students are able to earn a Bachelor of Arts degree, a Bachelor of Science degree, or a Minor in Biological Sciences. Within the Bachelor of Science degree program students may focus their work by selecting one or more of the following concentrations: Biomedical Sciences, Cell and Molecular Biology, Clinical Laboratory Sciences, Ecology, Evolution and Conservation, Forensic Biology, or Microbiology; or students may choose to obtain the Bachelor of Science in General Biology.

At the Graduate level, students may earn a Master of Arts or Master of Science degree in Biological Sciences and may also focus their work by pursuing a concentration in Ecology, Evolution, and Conservation or in Molecular and Cellular Biology within the Master of Science in Biological Sciences.

Degree Programs

BA in Biological Science (p. 785)

BS in Biological Science (p. 795)

BS in Biological Science (Biomedical Sciences) (p. 787)

BS in Biological Science (Cell and Molecular Biology) (p. 789)

BS in Biological Science (Clinical Laboratory) (p. 791)

BS in Biological Science (Ecology, Evolution, and Conservation) (p. 793)

BS in Biological Science (General Biology) (p. 795)

BS in Biological Science (Microbiology) (p. 797)

Biological Sciences Honors Program (p. 786)

Minor in Biological Science (p. 803)

Subject Matter Program (Pre-Credential Preparation) (p. 810)

Certificate in Issues in Natural Resource Management (p. 799)

Cooperative Education Program (Work Experience) (p. 799)

MA in Biological Science (General) (p. 799)

MA in Biological Science (Stem Cell) (p. 801)

MS in Biological Science (Ecology, Evolution, and Conservation) (p. 803)

MS in Biological Science (General) (p. 805)

MS in Biological Science (Molecular and Cellular Biology) (p. 807)

Special Features

- An Academic Achievement Certificate in *Issues in Natural Resource Management* may be earned with coursework beyond the B.S.
- Laboratory experiences are included with most major's courses, giving students an exceptional level of on-hands training during the degree program.
- The Department maintains a large collection of thousands of living and preserved plants and animals that are used for instruction, research, and public outreach. A complete list of the Department's current collections can be found on the Department's webpage (www.csus.edu/bios).
- Students have the opportunity to engage in research in a wide range of projects with individual faculty and through two University-recognized centers, each of which is composed of a cross-disciplinary interdepartmental group of faculty: CREST (the Center for Regional Environmental Science and Technology) and CIMERA (the Center for Interdisciplinary Molecular Biology Education, Research and Advancement).
- The Sierra Nevada and the Pacific Coast are equally accessible from Sacramento, providing field biology students the opportunity to study an extraordinary number of varied habitats.
- Sacramento State is one of the seven participating CSU campuses at Moss Landing Marine Laboratories (MLML) near Monterey.
- Located in the State Capital, Sacramento State provides a unique opportunity for students to become involved with various State and Federal agencies through biological internships and part-time employment.
- Public agencies, hospitals, clinics, and private health practices in the Sacramento area provide opportunities for students interested in the health care fields.

Contact Information

Jamie Kneitel, Department Chair
Nancy Angell, Administrative Support Coordinator
Sequoia Hall 202
(916) 278-6535
Department of Biological Sciences Website (http://www.csus.edu/bios/)

Faculty

ALTMAN, ROBIN

BAHLMAN, JOSEPH

BAXTER, JAMES W.

COLEMAN, RONALD M.

COLLINS, CLINT

CRAWFORD, ROBERT

DATWYLER, SHANNON L.

DAVIDSON, TIMOTHY

GLEASON, LANI

GONZALEZ, ENID T.

HOLLAND, BRETT T.

KIRVAN, CHRISTINE A.

KNEITEL, JAMIE M.

LANDERHOLM, THOMAS E.

LINDGREN, SUSANNE W.

LUNDMARK, JENNIFER ANN

MCDONALD, KELLY

MOTT, JOANNA

MULLIGAN, KIMBERLY

NGUYEN, HAO

PEAVY, THOMAS R.

PITZER, JR., JIMMY

RECHS, ADAM J.

SPROWLS, ROSALEE

VISGER, CLAYTON J.

WRIGHT, T. MICHAEL

BIO 1. Biodiversity, Evolution and Ecology. 5 Units
General Education Area/Graduation Requirement: Life Forms (B2), Laboratory (B3)
Term Typically Offered: Fall, Spring, Summer

Introduction to properties of life and cells leading to genetic and biological diversity. Survey of biological diversity emphasizing variation leading to natural selection; introduction to ecological concepts within an evolutionary framework; a survey of ecosystems and global climate change. Development of scientific skills will be emphasized. Designed for science majors. Lecture three hours; laboratory three hours; activity two hours; fee course.
Note: Field trips may be required.

Fee course.
Field trip(s) may be required.

BIO 2. Cells, Molecules and Genes. 5 Units
Prerequisite(s): BIO 1 and CHEM 1A.
Term Typically Offered: Fall, Spring

Introduction to molecular and cellular biology and genetics. Topics include biomolecules, cell structure and function, cellular energetics, molecular flow of information, cell division, and genetic inheritance. Development of scientific skills and a scientific mindset will be emphasized throughout the course, particularly in lab exercises and activities. Designed for science majors. Lecture three hours; laboratory three hours; activity two hours.

BIO 7. Introduction to the Science of Biology. 4 Units
General Education Area/Graduation Requirement: Laboratory (B3), Life Forms (B2)
Term Typically Offered: Fall, Spring

Introduction to major concepts of biology, including properties of living things, cells and their molecular constituents, the unity and diversity of organisms, genetics, ecology, evolution, and the scientific methods of investigation employed by biologists. Satisfies requirements in biology for students planning to obtain the Multiple Subject Teaching Credential. Lecture three hours; laboratory three hours. Fee course.
Fee course.

BIO 9. Our Living World: Evolution, Ecology and Behavior. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring

Designed for non-majors, this course is an introduction to the biological science behind important issues that face us today, such as those surrounding evolution, endangered species, conservation of ecosystems, and the behavior of organisms. By gaining an understanding of the scientific approach and the principles of evolution, ecology and behavior, students will be equipped to evaluate scientific developments and arguments in these and other issues as informed citizens. Lecture three hours.
Note: Not open to Biological Sciences majors or students who have received credit for BIO 1 or BIO 2.

BIO 10. Basic Biological Concepts. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring

An intensive introductory course for non-majors who will take additional course work in biology or related disciplines, including the allied health sciences. Introduction to the biological sciences with strong emphasis on cellular structure and metabolism, molecular biology and genetics, as well as concepts and principles common to all living systems including ecology and evolution. Lecture three hours.
Note: Not open to Biological Sciences majors or students who have received credit for BIO 1 or BIO 2.

BIO 15L. Laboratory Investigations in Biology. 1 Unit
Prerequisite(s): BIO 9, BIO 10 or BIO 20.
Corequisite(s): BIO 9, BIO 10 or BIO 20.
General Education Area/Graduation Requirement: Laboratory (B3)
Term Typically Offered: Fall, Spring

Introductory laboratory investigation of the major principles of biology, including properties of all living things, the unity and diversity of organisms, structure and function of cells, energy and metabolism, genetics, ecology, evolution, and the scientific methods of investigation employed by biologists. Laboratory three hours.
Note: Not open to Biological Sciences majors or students who have received credit for BIO 1 or BIO 2.

BIO 20. Biology: A Human Perspective. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring

Introduction to biological concepts with emphasis on their application to humans. Topics include: Evidenced-based decision making with respect to food, nutritional supplements, drugs, pathogens, and biotechnology. How heredity and evolution contribute to our understanding of personality, sex, behavior, addiction, disease, and aging is also discussed. Lecture three hours.
Note: Not open to majors in biological sciences and/or students who have received credit for BIO 10.

BIO 22. Introductory Human Anatomy. 4 Units
Prerequisite(s): BIO 1, BIO 2 or BIO 10
Term Typically Offered: Fall, Spring

Introduction to the study of the gross and microscopic structure of the human body using a systemic approach. Lecture three hours; laboratory three hours. Fee course.
Fee course.

BIO 25. Human Anatomy and Physiology I. 4 Units
Term Typically Offered: Fall, Spring

BIO 25/26 series provides an introduction to the structure and function of the major organ systems of the human body. BIO 25 offers basic terminology and concepts pertaining to the disciplines of anatomy and physiology, including structure/function relationships, homeostasis, and organizational levels; and provides an introduction to the structure and function of the muscular and nervous systems.
Note: Not open to students who have successfully completed BIO 22 and BIO 131, or an equivalent combination of separate anatomy and physiology courses. Lecture three hours; laboratory three hours. Fee course.

Fee course.

BIO 26. Human Anatomy and Physiology II. 4 Units
Prerequisite(s): BIO 25 or instructor permission.
Term Typically Offered: Fall, Spring

BIO 25/26 series provides an introduction to the structure and function of the major organ systems of the human body. BIO 26 provides an introduction to the structure and function of the cardiovascular, respiratory, renal and digestive systems, and emphasizes homeostatic control mechanisms.
Note: Not open to students who have successfully completed BIO 22 and BIO 131, or an equivalent combination of separate anatomy and physiology courses. Lecture three hours; laboratory three hours. Fee course.

Fee course.

BIO 30. Anatomy & Physiology - Brief Course. 4 Units
Prerequisite(s): Physical Education majors only
Term Typically Offered: Fall, Spring

An overview of the basic anatomy and physiology of all systems. Designed to meet the standards for the Physical Education Subject Matter Program, but may also may prepare students for study in other health-related fields.

BIO 39. Microbiology for Allied Health Students. 4 Units
Prerequisite(s): BIO 10; CHEM 5 or CHEM 6A and CHEM 6B or equivalent.
Term Typically Offered: Fall, Spring

Introduction to micro-organisms, particularly bacteria and viruses, with emphasis on health care-related applications of microbiology using case studies. Laboratory work includes aseptic techniques, methods of cultivating and identifying bacteria, demonstration of microbial properties and will provide practice with basic microbiological skills. Lecture three hours; laboratory three hours. Fee Course.
Note: Does not satisfy microbiology requirement for Biological Sciences majors.

Fee course.

BIO 100. Introduction to Scientific Analysis. 3 Units
Prerequisite(s): BIO 1, BIO 2, and STAT 1; declared Biological Sciences majors only or instructor consent.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Prepares students for upper division Biology coursework and careers in science using a curriculum centered on critical thinking and evidence-based instruction and activities. Covers core competencies required for the practice of science: 1) evaluative reading, 2) written and oral communication, 3) analysis/quantitative reasoning, and 4) experimental design. Online lecture two hours. In-person laboratory three hours.
Note: Course cannot be taken concurrently with or after taking BIO 167.

BIO 102. The Natural History of Plants. 3 Units
Prerequisite(s): A college course in biology or instructor permission.
Term Typically Offered: Fall, Spring

Major plant communities of California provide a framework for understanding the interrelationships of natural environments and the dominant trees and shrubs of these areas. Identification of these species and the wildflowers of the communities are emphasized in the lab and field trips. Designed for minors in biology or for those with an interest in their natural surroundings, but is acceptable for majors who have not completed BIO 112. Lecture one hour; laboratory six hours. Fee course. Fee course.
Field trip(s) may be required.

BIO 103. Plants and Civilization. 3 Units
Prerequisite(s): BIO 10 or equivalent.
Term Typically Offered: Fall, Spring

Study of the significance of plants in the development of human civilization. Emphasis will be placed on the botanical, sociological and economic aspects of plants useful to humans. Lecture three hours.

BIO 104. Physiology of Human Reproduction. 3 Units
Prerequisite(s): BIO 1, BIO 2 or BIO 10.
Term Typically Offered: Spring only

Study of the physiology of human reproduction. Topics to be covered include: gametogenesis, the basis of fertility, conception, prenatal development, parturition, lactation and the physiology of contraception. Lecture three hours.

BIO 105. Life in the Ocean. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Study of marine life and ocean ecosystems. Exploration of the unique adaptations of marine life, how marine organisms interact with their environment, diversity of marine habitats from coral reefs to deep sea, and conservation. Does not count toward the Biological Sciences Major.

BIO 106. Genetics: From Mendel to Molecules. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the principles of genetics and scientific approaches used to define those principles. The physical basis of heredity, the impact of selective breeding and genetic engineering will be discussed. Lecture two hours; discussion one hour.
Note: BIO 10 recommended.

BIO 109. Biology of Dinosaurs. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Introduction to the biology of the dinosaurs. Dinosaurs came in a vast array of shapes and sizes and exemplify biodiversity. This course will examine the dinosaurs in an evolutionary framework, discussing their origin, the major lineages, phylogeny and what they look like today. The course will take advantage of the recent surge in scientific investigations into the biology of dinosaurs, such as parental care, sexual selection, group living, flight and feathers. Does not count toward the Biological Sciences Major.

BIO 112. Plant Taxonomy. 4 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

Spring flora of central California is used as the focus of study in the classification and identification of native vascular plants. Lecture two hours; laboratory six hours. Field trips may be required. Fee course.
Fee course.
Field trip(s) may be required.

BIO 113. Evolution and Speciation in Flowering Plants. 3 Units
Prerequisite(s): BIO 1 and BIO 2 or equivalent.
Term Typically Offered: Fall only – even years

A survey of the important tools and mechanisms used to study speciation in plants. Topics include the molecular basis of evolutionary change, intraspecific genetic variation at both the local and landscape levels, theory regarding mechanisms of speciation, and the importance of polyploidy. Readings will be from both a text and from the primary literature, and will include in-depth discussions of historical and modern studies in plant evolution. Lecture three hours.

BIO 115. Introduction to Neuroscience. 4 Units
Prerequisite(s): PSYC 2 and PSYC 8; PSYC or BIO majors only. PSYC 9 recommended.
Term Typically Offered: Fall, Spring

Investigation of the structure and function of the central nervous system including neuroanatomy and neurophysiology, sensorimotor integration. The lectures and readings emphasize the empirical questions, techniques and methods used in neuroscience research. Laboratory exercises focus on gross- and micro- neuroanatomy, models of membrane electrophysiology and motor system function. Lecture/discussion three hours; laboratory three hours.
Cross Listed: PSYC 115; only one may be counted for credit.

BIO 118. Natural Resource Conservation. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Fall only – odd years

Introduction to the principles and practices of biological conservation. Historical development of conservation philosophy; current issues in conservation of renewable natural resources; conservation administration. Lecture three hours.

BIO 120. Biology of Aging. 3 Units
Prerequisite(s): BIO 1, BIO 2, BIO 10 or BIO 20.
Term Typically Offered: Fall, Spring

Theories of aging, cellular aging and aging effects on the various human body systems. Lecture three hours.
Note: Not open for credit to students who have previously taken BIO 131.

BIO 121. Molecular Cell Biology. 3 Units
Prerequisite(s): BIO 184
Term Typically Offered: Fall, Spring

Comparison of the cellular and molecular biology of prokaryotic and eukaryotic cells. Emphasis will be placed on membrane structures, transport phenomena, cell to cell communication, cellular reproduction, genetic architecture, gene expression and metabolism, as well as the eukaryotic endomembrane, cytoskeleton and extracellular matrix systems. Lecture three hours.

BIO 122. Advanced Human Anatomy. 4 Units
Prerequisite(s): BIO 22.
Term Typically Offered: Spring only

Gross structure of the human body using a regional approach. Lecture three hours; laboratory three hours. Fee course.
Fee course.

BIO 123. Neuroanatomy. 3 Units
Prerequisite(s): BIO 22.
Term Typically Offered: Fall only

Gross and microscopic structures of the central, peripheral and autonomic nervous systems. The lectures are correlated with laboratory exercises and demonstrations using human prosected cadaver specimens, audio-visual slide projected materials, charts and models. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 124. Clinical Hematology. 3 Units
Prerequisite(s): CHEM 161 and BIO 184
Term Typically Offered: Spring only

Basic principles and current clinical laboratory procedures used in the study of blood; emphasis on morphological and chemical changes in the disease processes. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 125. Body Fluid Analysis. 1 Unit
Prerequisite(s): CHEM 161 or instructor permission.
Term Typically Offered: Fall only

Production of body fluids (e.g., urine, cerebrospinal, pleural, peritoneal, pericardial, and synovial fluids); their normal characteristics and pathological changes will be discussed. A description of the laboratory tests used in the clinical evaluation of body fluids will also be presented.

BIO 126. Comparative Vertebrate Morphology. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

Study of the anatomical systems of vertebrates in an evolutionary and functional context. Covers vertebrate form, function, development and phylogeny, overviews of organ systems, and how their modification founded the major events of vertebrate evolution including metamorphosis, water-to-land transition, tetrapodal locomotion, feeding and reproduction. Labs complement lectures with dissections of three representative species (shark, salamander, cat), and surveys of specializations in other forms. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 127. Developmental Biology. 4 Units
Prerequisite(s): BIO 2.
Term Typically Offered: Fall only

This course examines the progression of fertilized eggs of vertebrate organisms through embryonic development. This progression will be studied at biochemical, molecular, genetic, morphological and physiological levels, with an emphasis on the progressive changes that occur within cells, tissues and organs in the embryo. We will use a comparative approach between a variety of model organisms to understand similarities and differences among vertebrate and selected invertebrate species. Fee course.
Note: Prerequisite will be enforced by instructor.

Fee course.

BIO 128. Plant Anatomy and Physiology. 4 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

An integrative examination of our current understanding of plant structure and function. Students will apply fundamental principles of cell and molecular biology, evolution, and ecology to understand the relationships between plant anatomy and plant physiology that have enabled plants to achieve such a high level of success as primary producers on our planet. Lecture three hours, laboratory three hours. Fee course.
Fee course.

BIO 130. Histology. 3 Units
Prerequisite(s): BIO 22
Term Typically Offered: Spring only

Study of the morphology and physiology of cells in primary normal human tissues and the arrangement and adaptations of tissues in organs and organ systems. The characteristics and properties of abnormalities in human tissues will be covered if time permits. Lecture two hours; laboratory three hours.

BIO 131. Systemic Physiology. 4 Units
Prerequisite(s): CHEM 1B or CHEM 6B and BIO 1 or BIO 2 or BIO 10 or BIO 22.
Term Typically Offered: Fall, Spring

Physiology of organ systems with emphasis on control and integration of system function. Experiments using humans and selected vertebrate animal models are performed in the laboratory to illustrate functional characteristics of organ systems discussed in lecture and to provide direct experience with techniques, recording systems, and methods of data analysis commonly used in physiology and related fields. Lecture three hours; laboratory three hours. Fee course.
Fee course.

BIO 131A. Advanced Problems in Physiology. 1 Unit
Corequisite(s): BIO 131
Term Typically Offered: Fall, Spring

Advanced problem-solving in physiology designed for students concurrently enrolled in BIO 131. Students explore solutions to challenging problem sets under the direct supervision of an experienced section leader. Discussion: two hours.
Credit/No Credit

BIO 132. Neurophysiology. 3 Units
Prerequisite(s): BIO 131 or both BIO 25 and BIO 26.
Term Typically Offered: Fall, Spring

Organization and function of the nervous system will be explored. Topics include mechanisms of communication between neurons, integration of sensory and motor systems, and functional brain systems. Diseased states will be introduced, as appropriate. Lecture 3 hours.

BIO 133. Cardiovascular, Respiratory and Renal Physiology. 3 Units
Prerequisite(s): BIO 131.
Term Typically Offered: Spring only

Advanced consideration of the integrated physiology of the cardiovascular, respiratory, and renal systems, including acid-base physiology. Advanced problem-solving, analysis of case studies, and interpretation of experimental findings will be included. Lecture three hours.

BIO 134. Medical Mycology. 3 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Spring only – even years

Study of the morphology, cultural characteristics and classification of fungi which are pathogenic for humans, as well as fungi which appear as common contaminants. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 135. Endocrinology. 3 Units
Prerequisite(s): BIO 121.
Term Typically Offered: Fall only

Advanced consideration of the principles of endocrinology with special emphasis on the role of hormones in growth, metabolism, stress (including the hormonal interactions during exercise) and disease. Various endocrine disorders, will serve as the model for case studies, current literature analysis and advanced problem-solving activities. Lecture three hours.

BIO 139. General Microbiology. 4 Units
Prerequisite(s): BIO 184; CHEM 20 or CHEM 24
Term Typically Offered: Fall, Spring

Introduction to microorganisms, particularly bacteria and viruses, their physiology and metabolism. Laboratory work includes aseptic techniques, methods of cultivating and identifying bacteria, and demonstration of microbial properties. Lecture three hours; laboratory three hours. Fee course.
Fee course.

BIO 140. Medical Microbiology and Emerging Infectious Diseases. 3 Units
Prerequisite(s): BIO 39 or BIO 139.
Term Typically Offered: Spring only

Lectures, discussions, and readings regarding infectious viruses, bacteria, fungi, and parasites, with an emphasis on highly relevant pathogens including emerging infectious agents and microbes that are regionally endemic. The clinical syndrome, along with the molecular and cellular aspects of the course of infection of each pathogen will be discussed. Additionally, the history of microbiology and medicine as well as a brief overview of laboratory methods used for diagnosis will also be covered. Lecture three hours.
Note: BIO 140 cannot substitute for BIO 144 in the CLS concentration in Biological Sciences.

BIO 143. General Virology. 3 Units
Prerequisite(s): BIO 121 and BIO 139
Term Typically Offered: Spring only

Lectures and demonstrations on the fundamental characteristics and properties of plant, animal and bacterial viruses. Lecture three hours.

BIO 144. Pathogenic Bacteriology. 4 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Fall, Spring

Morphological, physiological and immunological characteristics of pathogenic bacteria. In the laboratory, pure culture studies are emphasized. Lecture two hours; laboratory six hours. Fee course.
Fee course.

BIO 145. The Diversity of Microorganisms. 4 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Spring only

Isolation, cultivation and characterization of a wide variety of soil and water microbes from natural habitats using a variety of culture and non-culture based techniques; natural habitats also will be examined directly for the numbers and varieties of microbes which are present using bioinformatic and statistical tools. Lecture two hours; laboratory six hours.

BIO 149A. Immunology. 3 Units
Prerequisite(s): BIO 121 and BIO 139
Term Typically Offered: Fall, Spring

Nature of antigens, antibodies and their reactions. The development of the immune response and its role in immunity and pathology. Lecture two hours.

BIO 149B. Immunology and Serology Laboratory. 1 Unit
Prerequisite(s): BIO 139, BIO 149A.
Term Typically Offered: Fall, Spring

Laboratory exercises designed to provide familiarity with common clinical laboratory procedures in serology. Laboratory three hours. Fee course.
Fee course.

BIO 149C. Advanced Problems in Immunology. 1 Unit
Prerequisite(s): BIO 139 and CHEM 161.
Corequisite(s): BIO 149A.
Term Typically Offered: Fall only

Advanced problem-solving in immunology designed for students concurrently enrolled in BIO 149A. Discussions and problem sets are focused on the medical, clinical, and biotechnology applications of immunology. Discussion one hour.
Credit/No Credit

BIO 150. Forensic Biology. 3 Units
Prerequisite(s): BIO 1, BIO 2 and BIO 184.
Term Typically Offered: Spring only

Principles governing the application of biology and biological statistics to solve crimes. Topics include evidence examination and preservation, presumptive and confirmatory serological tests, hair comparison, generation and statistical analysis of mitochondrial and nuclear DNA profiles, structure and administration of the modern crime laboratory, and the role of the criminalist in the U.S. court system. Lecture two hours; laboratory three hours.
Note: Not offered every semester

BIO 151. Advanced Laboratory Techniques in Forensic Biology. 2 Units
Prerequisite(s): BIO 150 or instructor permission.
Term Typically Offered: Fall only

Laboratory exercises focusing on current research problems and skills in forensic serology, DNA typing, and court testimony. Topics will include DNA mixture and low copy number interpretation, advanced techniques in serological testing, research ethics, as well as skills for effective communication in the courtroom. Topics may also include Y-STR typing, animal and plant DNA identification and typing, microbial forensics, somatic mosaicism, ELISA specificity and sensitivity testing, and other current areas of active inquiry. Designed to prepare students for entry level positions as DNA analysts in federal, state, and local crime laboratories. Laboratory six hours. Fee course.
Fee course.

BIO 152. Human Parasitology. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

Examines, in detail, the most important species of protozoans, flukes, tapeworms and roundworms that infect humans. Life cycles, pathology and prophylaxis constitute the principal topics in lectures. Morphology, physiology, taxonomy and diagnosis constitute the principal topics in the laboratory. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 156. Food Microbiology. 3 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Fall, Spring

Microbiology of food fermentations, food preservation and spoilage. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 157. General Entomology. 4 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Fall only

Biology of insects and a brief consideration of other terrestrial arthropods. Includes structure, physiology, ecology, classification, economic importance, collection and preservation of insects. Lecture three hours; laboratory three hours. Fee course.
Fee course.

BIO 160. General Ecology. 3 Units
Prerequisite(s): BIO 1 and BIO 2 or BIO 1 and BIO 10; BIO 100 or ENVS 120. Fee course.
Term Typically Offered: Fall, Spring

Examination of the interrelationships among organisms and their environments. Designed for the major in Biological Sciences or related fields. Topics include the structure and function of terrestrial and aquatic ecosystems, population and community dynamics and human effects on ecosystems. Projects and field trips required. Lecture two hours; laboratory three hours.
Fee course.
Field trip(s) may be required.

BIO 162. Ichthyology: The Study of Fishes. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Fall only – even years

Biology of fishes: structure, physiology, ecology, economic importance, propagation and classification. Methods of identification, life history study, propagation, collection and preservation. Lecture two hours; laboratory three hours. Field trips may be required. Fee course.
Fee course.
Field trip(s) may be required.

BIO 164. Amphibians and Reptiles: An Introduction to Herpetology. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only – even years

Taxonomy, natural history, ecology and distribution of amphibians and reptiles with emphasis on local forms. Lecture two hours; laboratory three hours. Field trips may be required. Fee course.
Fee course.
Field trip(s) may be required.

BIO 166. Ornithology. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only – odd years

Biology of birds: structure, physiology, ecology, behavior, and classification. Methods of life history study, ecological studies, laboratory and field identification. Lecture two hours; laboratory three hours. Field trips required. Fee course.
Fee course.
Field trip(s) may be required.

BIO 167. Quantitative Methods in Biology. 3 Units
Prerequisite(s): STAT 1 and BIO 100 or graduate status
Term Typically Offered: Spring only

Focuses on statistical hypothesis testing and experimental design in the biological sciences. Topics include the development of a hypothesis, study design and implementation, management and presentation of data, identification of data types, and appropriate use of statistical procedures. General application to a wide range of biological disciplines and will emphasize the scientific process, critical thinking skills, and the interpretation of statistical results, which will include a project culminating a scientific paper and presentation. Lecture two hours; laboratory three hours.

BIO 168. Mammalogy. 4 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Fall only

Biology of mammals: structure, physiology, ecology, behavior, classification. Methods of life history, laboratory and field identification, collection and preservation. Lecture three hours; laboratory three hours. Field trips required. Fee course.
Fee course.
Field trip(s) may be required.

BIO 169. Animal Behavior. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

Introduction to the fascinating world of why animals do the things that they do. Focus is on the evolution and function of animal behavior through understanding the costs and benefits of different behavior including foraging, fighting and reproduction. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 170. Advanced Nutrition and Metabolism. 3 Units
Prerequisite(s): CHEM 161, FACS 113; or instructor permission.
Term Typically Offered: Spring only – odd years

Study of the physiologic function of carbohydrates, lipids, protein and micronutrients including integrated metabolism, transport, regulation and relation to inborn errors/chronic disease. Introduction to gene-nutrient interaction.
Cross Listed: FACS 170; only one may be counted for credit.

BIO 173. Principles of Fisheries Biology. 3 Units
Prerequisite(s): BIO 160, STAT 1.
Term Typically Offered: Fall only – odd years

Introduction to the biological principles basic to fisheries science, including enumeration, recruitment, growth, abundance and mortality. Mathematics, computer modeling, and field methods will be used to understand natural populations and the impact of fishing on those populations in keeping with modern approaches to fisheries science which are grounded in population ecology and conservation biology. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 178. Molecular Ecology. 4 Units
Prerequisite(s): BIO 184
Corequisite(s): BIO 188
Term Typically Offered: Fall, Spring

A survey of the use of molecular tools to understand ecological questions. Lecture will focus on the background and history of the use of molecular tools in ecological settings, including application of molecular tools to conservation of natural resources. Laboratory will include techniques for both wet lab and analysis of molecular data, including interpretation of results. Students will complete a capstone-style project that will culminate in the production of a research proposal.

BIO 179. Conservation Biology & Wildlife Management. 3 Units
Prerequisite(s): BIO 100. BIO 160 recommended. Or instructor permission. Paired
Term Typically Offered: Spring only

Study of human effects and management of ecological systems, including populations, communities, and ecosystems. Topics include population and biodiversity responses to human activities, endangered species management, reserve design, and restoration. Paired course with Bio 279.
Note: Lecture two hours; laboratory and fieldwork three hours; meets in the same location with the same instructor as Bio 279; course cannot be taken concurrently with or after taking BIO 279; Bio 279 cannot be taken in the graduate program after completing Bio 179.

BIO 180. Advanced Molecular Biology. 4 Units
Prerequisite(s): BIO 121 and BIO 184.
Term Typically Offered: Fall, Spring

Examination of the structure of genes and genomes, the mechanisms by which they change, and the use of evolutionary relationships to understand function. Mechanisms of the regulation of gene expression from gene to phenotype and the tools used o study these processes. Applications of molecular tools in medicine and biotechnology and the ethics around these approaches. Lecture two hours, laboratory six hours.

BIO 183. Cancer Biology. 3 Units
Prerequisite(s): BIO 121 and BIO 184.
Term Typically Offered: Fall only

Study of cancer from the molecular level to the effect on whole tissues and organs. Topics to be covered include the classification and nomenclature of cancers, the process leading up to the formation of a cancer, the possible causes of cancer, and possible treatment. Lecture two hours.

BIO 183A. Advanced Problems in Cancer Biology. 1 Unit
Prerequisite(s): BIO 121 and BIO 184 and BIO 183 or instructor permission; BIO 183 may be taken concurrently
Term Typically Offered: Fall, Spring

Literature searches and discussions are focused on medical, clinical, and biotechnological applications of Cancer Biology.

BIO 184. General Genetics. 4 Units
Prerequisite(s): BIO 1 and BIO 2; declared major in Biological Sciences, Biochemistry, Chemistry or instructor consent
Term Typically Offered: Fall, Spring, Summer

Principles of inheritance as they relate to microorganisms, plants, animals and humans. Genetic mechanisms are analyzed according to evidence derived from both classical and current research. The nature, structure, and function of the genome are considered at the molecular level. Lecture three hours; laboratory three hours. Fee course.
Fee course.

BIO 185. Topics in Biology. 3 Units
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2; CHEM 20.
Term Typically Offered: Fall, Spring

Current topics in cellular, developmental and/or molecular biology. Topics will vary. May be taken more than once provided that topics are different. Lecture three hours.

BIO 186A. Cell and Molecular Biology Seminar. 1 Unit
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2.
Term Typically Offered: Fall, Spring

Series of at least 10 seminars in cell and molecular biology. Topics within each seminar will vary each semester.
Note: May be repeated for credit. No more than one unit of BIO 186 may be counted toward the upper division major requirement.

Credit/No Credit

BIO 186B. Ecological and Environmental Issues Seminar. 1 Unit
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2.
Term Typically Offered: Fall only

Series of at least 10 seminars in ecological and environmental issues. Topics within each seminar will vary each semester.
Note: May be repeated for credit. No more than one unit of BIO 186 may be counted toward the upper division major requirement. Cross Listed: ENVS 186B; only one may be counted for credit.

Credit/No Credit

BIO 186C. Introduction to Health Careers Seminar. 1 Unit
Term Typically Offered: Fall, Spring

Designed for pre-health professional students who are in the process of researching traditional and non-traditional health professions and careers. This course consists of at least 10 seminars presented by various practicing health professionals, health professional students, and health professional school admissions officers. Topics vary each semester. One hour per week.
Credit/No Credit

BIO 187. Advanced Cell Biology. 4 Units
Prerequisite(s): BIO 121 and BIO 184.
Term Typically Offered: Fall, Spring

Advanced cellular and molecular biology of eukaryotic cells. Comparison to prokaryotic organism will be made as needed to illustrate key concepts. Emphasis will be placed on cellular functions and utilize two or more cellular systems; including cell to cell communication, regulation of gene expression, uptake and secretion, regulation of cytoskeletal configuration, cell migration and cellular reproduction. Lecture two hours, laboratory six hours.

BIO 188. Evolution. 3 Units
Prerequisite(s): BIO 184 or instructor permission.
Term Typically Offered: Fall, Spring

General survey of evolutionary processes: mechanisms of evolutionary change, adaptation and history of life. Designed for biological sciences majors. Lecture three hours.

BIO 194. Biology-Related Work Experience. 6 - 12 Units
Term Typically Offered: Fall, Spring

Supervised employment in a biology or biology-related company or agency arranged through the Department of Biological Sciences and the Cooperative Education Program office. Requires preparation of application packet, completion of a three to six month, full-time or part-time work assignment, and a written report.
Note: Open only to upper division or graduate students with appropriate preparation. Consent of Department Cooperative Education Committee required, and Committee will determine the number of units to be granted. Students may enroll for no more than 12 total units, and units may not be used to meet biology major or graduate course work requirements.

Credit/No Credit

BIO 195. Biological Internship. 1 - 2 Units
Prerequisite(s): Department chair and instructor (representing the appropriate biological discipline) permission.
Term Typically Offered: Fall, Spring

Supervised work-learn experience in biology with a public or private organization. Up to 4 units may be taken. No more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the biological sciences upper division major requirement.
Credit/No Credit

BIO 195D. Dental Internship. 1 - 2 Units
Prerequisite(s): Department chair and instructor (representing the appropriate preprofessional discipline) permission.
Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in the medical-related and business-related aspects of dentistry. Includes a volunteer experience in the community. No more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the biological sciences upper division major requirement.
Note: 1 unit = 40 hours of participation/semester and 2 units = 80 hours of participation/semester; May be repeated for up to 4 units of credit .

Credit/No Credit

BIO 195M. Medical Internship. 2 Units
Prerequisite(s): Department Chair, Instructor and Placement Agency's permission required.
Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in multiple aspects of health care. Includes a volunteer experience in the community, supplemental readings, and a presentation on current issues in medicine and health education. No more than 2 units of BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.
Note: 80 hours of participation/semester

Credit/No Credit

BIO 195P. Pharmacy Internship. 1 - 2 Units
Prerequisite(s): Department Chair, Instructor, and Placement Agency permission required.
Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in pharmacy. Includes a volunteer experience in the community. No more than 2 units from BIO 195, BIO 197 and Bio 199 combined can be applied to the biological sciences upper division major requirement. May be repeated for up to 4 units of credit. 1.0-2.0 units (40-80 hours of participation/semester).
Credit/No Credit

BIO 195T. Teaching Internship. 1 - 2 Units
Prerequisite(s): Department chair and instructor permission.
Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in K-12 teaching. Includes regular meetings with supervising teacher and submission of a field experience journal. May be repeated for credit.
Note: No more than 2 units from BIO 195, 197 and 199 combined can be applied to the biological sciences upper division major requirement.

Credit/No Credit

BIO 197A. Laboratory Teaching Assistant. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Supervised experiences will include aspects of laboratory preparation and aspects of teaching biology laboratory courses. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of professor and Department Chair.
Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.

BIO 197B. Laboratory Techniques. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Supervised laboratory experiences for advanced students in the organization and techniques for operation of a basic sciences laboratory. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of professor and Department Chair.
Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

BIO 197C. Co-curricular Activities in Biology. 1 - 2 Units
Term Typically Offered: Fall, Spring

Students may earn BIO 197C credit by participating as tutors and/or section or discussion leaders for biological sciences classes or teaching as voluntary instructors or tutors in K-12 courses or programs offered by other community organizations. Participation requires four to eight hours weekly. Admission requires approval of professor and Department Chair.
Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

BIO 197D. Advanced Laboratory Exploration. 1 - 2 Units
Prerequisite(s): BIO 197A and instructor permission.
Term Typically Offered: Fall, Spring

Advanced, supervised experiences that explore the science behind laboratory experiences and discussion regarding aspects of specific laboratories that promote understanding of scientific content. Conferences and laboratory experiences four to eight hours weekly; written assignments and/or oral presentations required. Admission requires approval of professor and Department Chair.
Note: No more than 2 units from BIO 195, BIO 197, BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

BIO 197E. Intermediate Lab Techniques. 1 - 2 Units
Prerequisite(s): BIO 197B and instructor or Department Chair permission
Term Typically Offered: Fall, Spring

Supervised laboratory experiences for skilled students in the organization and techniques for operation of a basic sciences laboratory. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of instructor and Department Chair.
Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

BIO 197F. Advanced Lab Techniques. 1 - 2 Units
Prerequisite(s): BIO 197B and instructor permission.
Term Typically Offered: Fall, Spring

Advanced supervised laboratory experiences for skilled students in the organization and techniques for operation of a basic sciences laboratory. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of instructor and Department Chair.
Note: May be taken more than once; no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

BIO 198A. Honors Proseminar and Research. 2 Units
Prerequisite(s): Open only to honors students in biological sciences who have an overall GPA of 3.25 and a minimum of 3.0 GPA in biology courses (at least six units of upper division biology excluding BIO 106, BIO 108, BIO 194, BIO 195, BIO 197 and BIO 199).
Term Typically Offered: Fall, Spring

Contemporary topics in biology selected by students in the course will form the basis for an introduction to scientific journals, the scientific method, and research as a professional pursuit. Each student develops a refined research proposal and prepares a seminar summarizing the proposal and the current state of knowledge in the topic area. Students will develop and refine their methodology under the direction of a faculty sponsor.

BIO 198B. Honors Research and Seminar. 2 Units
Prerequisite(s): BIO 198A.
Term Typically Offered: Fall, Spring

Directed research involving completion of an independently conducted research project for which a proposal and methodology was developed in BIO 198A. Data collection, summary and analysis, and formulation of conclusions based on the data will be discussed periodically with a faculty sponsor. Culmination will consist of preparation of an undergraduate thesis, poster and presentation of a seminar summarizing results and conclusions.
Note: Open only to honors students in Biological Sciences. Fee course.

Fee course.

BIO 199A. Introductory Undergraduate Research. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Student conducts introductory, independent laboratory or field research on an original question. Research must culminate in a formal report. Weekly meetings may be required. Students must have a research prospectus approved by faculty mentor and Department Chair.
Note: May be taken more than once, no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

BIO 199B. Directed Readings. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Directed Readings on a topic in Biology culminating in a research paper. Admission requires submission of a prospectus approved by the faculty member under whom the work is to be conducted and the Department Chair.
Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.

BIO 199C. Intermediate Undergraduate Research. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Student conducts independent laboratory or field research on an original question. Research must culminate in a formal report. Weekly meetings may be required. Students must have a research prospectus approved by faculty mentor and Department Chair.
Note: May be taken more than once; no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

BIO 199D. Advanced Undergraduate Research. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Advanced laboratory or field research on an original question. The research must culminate in a formal report. Weekly meetings may be required. Students must have a prospectus approved by the faculty member and the Department Chair.
Note: May be taken more than once; no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

BIO 214. Advanced Plant Ecology. 3 Units
Prerequisite(s): BIO 160.
Term Typically Offered: Fall, Spring

Fundamental properties of plant populations; population regulation; community productivity and structure; a study of ecotypic and ecoclinal variation in plant populations. Lecture one hour; laboratory and field six hours.

BIO 220. Introduction to Scientific Inquiry. **2 Units**
Term Typically Offered: Fall, Spring

Graduate level introduction to scientific inquiry in the biological sciences. Students learn to apply the scientific method, critically evaluate the scientific literature, initiate their graduate project, and develop written and oral scientific presentation skills. Lecture two hours.
Note: Graduate Writing Intensive (GWI).

BIO 221A. Cell and Molecular Methods and Techniques. **2 Units**
Prerequisite(s): BIO 220 (may be taken concurrently).
Term Typically Offered: Fall, Spring

Introduction to research methods in molecular and cellular biology. Students learn both cell and molecular techniques in the context of hypothesis-driven research to answer questions relating to a specific gene and cellular system. Experimental design and commonly used laboratory techniques will be explored. Two three hour laboratory periods. Fee course.
Fee course.

BIO 221B. Methods in Ecology, Evolution and Conservation. **2 Units**
Prerequisite(s): BIO 167, BIO 220 (may be taken concurrently).
Term Typically Offered: Fall, Spring

Introduction to research methods in ecology, evolution and conservation biology. Students learn field and laboratory techniques with a variety to taxa in a range of local ecosystems. Students will work with several faculty conducting research projects. Topics will include developing hypotheses, experimental design, study implementation, and statistical analyses. Students will be expected to present findings in oral and written form. Two three hour laboratory periods. Fee course.
Fee course.

BIO 221C. Exploration of Biological Methodology. **3 Units**
Term Typically Offered: Fall, Spring

Intended for students in the MA grant proposal track, this course explores a selected topic from multiple scientific perspectives. A discovery-based laboratory project using cell and molecular techniques complimented with lectures, discussions and field trips that investigate the ecological, environmental, and evolutionary aspects of the same topic. The laboratory project will focus on a current biological topic (such as genetically modified organisms) in accordance with the instructor's interests and expertise. One hour lecture, six hours lab per week.
Note: Not open to students in the Master of Science in Molecular and Cellular Biology Concentration.

Field trip(s) may be required.

BIO 222. Molecular Biology. **3 Units**
Prerequisite(s): BIO 184, CHEM 161.
Term Typically Offered: Fall, Spring

Processes and control of DNA replication, transcription, and translation developed from a consideration of the current literature. Lecture three hours.

BIO 223. Human Molecular Genetics. **3 Units**
Prerequisite(s): BIO 184 and CHEM 161.
Term Typically Offered: Fall, Spring

In-depth study of the molecular basis of human disease, emphasizing current experimental approaches and technologies. Topics include the isolation and analysis of disease genes, the influence of teratogans and random environmental events on human embryonic development, the molecular and biochemical consequences of mutagenesis, and ethical issues that currently surround the field. Lecture 3 hours.

BIO 224. Genomics, Proteomics, and Bioinformatics. **3 Units**
Prerequisite(s): BIO 184, BIO 222 and graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Examination of current approaches in structural genomics, functional genomics and proteomics, and the bioinformatics tools utilized to understand genome organization, the regulation of gene expression, gene function and the evolutionary relationships within and between genomes. Lecture two hours; laboratory 3 hours.

BIO 225. Stem Cell Biology and Manufacturing Practices. **1 Unit**
Prerequisite(s): Graduate status and instructor permission.
Term Typically Offered: Fall, Spring

Graduate level introductory course in human stem cell biology with specific emphasis on adult, embryonic, and induced pluripotent stem cells. Topics will include how stem cells are isolated or generated, how they are cultured, and how they are used for regenerative therapies. In addition, students will learn about Good Manufacturing Practice (GMP) and how to manufacture human stem cells.

BIO 227. Development and Regenerative Medicine. **3 Units**
Prerequisite(s): Graduate status and instructor permission.
Term Typically Offered: Fall, Spring

Examines the processes of cellular development in the embryo and adult with a focus on stem cells. Stem cells will be studied at the biochemical, molecular, genetic, epigenetic, cellular and physiological level, with an emphasis on their roles in promoting organismal health and disease. Current research and clinical applications will be examined, along with the bioethics, policies and politics of their use.

BIO 245. Host/Pathogen Interactions. **3 Units**
Prerequisite(s): BIO 121, BIO 139, BIO 184. Courses recommended but not required: BIO 144, BIO 149, BIO 180.
Term Typically Offered: Fall, Spring

Critical reading and discussion of current literature on host/pathogen interactions. Topics to be covered include: alteration of host intracellular trafficking, subversion of cell cytoskeleton for invasion, intracellular survival mechanisms, pathogen-induced cell killing, and evasion and subversion of the host immune system.

BIO 247. Contemporary Topics in Immunology. **2 Units**
Prerequisite(s): BIO 149A or instructor permission.
Term Typically Offered: Fall, Spring

Readings and discussions of current literature emphasizing new field developments and controversies. Lecture two hours.

BIO 260. Advanced Ecology. 3 Units
Prerequisite(s): BIO 160 or equivalent.
Term Typically Offered: Fall, Spring

Principles and applications of theoretical and field ecology as they apply to populations, communities and ecosystems.

BIO 269. Behavioral Ecology. 3 Units
Prerequisite(s): BIO 160 or instructor permission.
Term Typically Offered: Fall, Spring

Advanced study of animal behavior focusing on the life history consequences of social organization, spacing systems, sexual behavior, reproductive ecology, feeding ecology, competitive interactions and predator-prey interactions.

BIO 273. Advanced Fishery Biology and Management. 3 Units
Prerequisite(s): BIO 173 or instructor permission.
Term Typically Offered: Fall, Spring

Critical review and evaluation of current techniques and concepts relating to the management, protection, and improvement of fishery resources. Lecture three hours.

BIO 279. Conservation Biology and Wildlife Management. 3 Units
Prerequisite(s): BIO 160; or instructor permission.
Term Typically Offered: Spring only

Advanced study of human effects and management of ecological systems, including populations, communities, and ecosystems. Topics include population and biodiversity responses to human activities, endangered species management, reserve design, and restoration. Emphasis on the critical evaluation, review, and presentation of conservation literature and issues. Paired course with Bio 179.
Note: Lecture two hours; laboratory and fieldwork three hours; meets in the same location with the same instructor as Bio 179; course cannot be taken concurrently with or after taking BIO 179; Bio 279 cannot be taken in the graduate program after completing Bio 179. Field Trip(s).

Field trip(s) may be required.

BIO 282. Evolution. 3 Units
Term Typically Offered: Fall, Spring

Process of evolution throughout the taxonomic hierarchy and factors responsible for the generation of variability of the gene, cell, organism and population levels are explored through lectures, text readings and a survey of current periodical literature. Lecture 3 hours.

BIO 283. Biogeography. 3 Units
Term Typically Offered: Fall, Spring

Study of the past and present plant and animal distributions, and the geologic, climatic and ecologic factors involved in their migration, establishment and extinction. Lecture/discussions three hours.

BIO 285. Topics in Biology. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Readings and discussions of current literature emphasizing new developments and controversies in a comparatively narrow range of biological topics. Topics will vary with each offering, encompassing one recognized specialty in biology. May be repeated for credit when the topics vary.

BIO 293. Research Conference. 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Presentation and discussion of graduate student and faculty research and current literature with emphasis on critical evaluation of research design, data analysis and presentation techniques.
Note: Discussion two hours. May be taken twice for credit. Only two units may be applied to the University's requirement for 200-level courses; May be repeated for up to 4 units of credit.

Credit/No Credit

BIO 294A. Seminar in Molecular and Cellular Biology. 1 Unit
Prerequisite(s): Student must be a Biology major at the master's level to enroll in this class and/or have instructor permission.
Term Typically Offered: Fall, Spring

Review and discussion of scientific literature in cell and molecular biology. Seminar topics will vary by semester.
Note: May be repeated for up to 4 units of credit.

Credit/No Credit

BIO 294B. Seminar in Ecology, Evolution and Conservation. 1 Unit
Prerequisite(s): Student must be a Biology major at the master's level to enroll in this class and/or have instructor permission.
Term Typically Offered: Fall, Spring

Review and discussion of scientific literature in ecology, evolution, and conservation biology. Seminar topics will vary by semester.
Note: May be repeated for up to 4 units of credit.

Credit/No Credit

BIO 297A. Teaching Biology Seminar. 1 Unit
Prerequisite(s): Acceptance in the GTA Program or instructor permission.
Term Typically Offered: Fall, Spring

Training for graduate students who wish to participate in the Department's Graduate Teaching Associate (GTA) Program and others interested in teaching biology. Weekly seminar session covering aspects of teaching biology laboratories. Lecture/discussion. Not applicable toward 18 unit 200-level course work requirement.
Credit/No Credit

BIO 297B. Laboratory Teaching. 1 Unit
Prerequisite(s): Acceptance in the GTA Program or instructor permission.
Term Typically Offered: Fall, Spring

Training for graduate students admitted to the Graduate Teaching Associate (GTA) Program. Students assist in teaching three hours of biology laboratory weekly under the supervision of a laboratory instructor. Laboratory three hours. Not applicable toward 18 unit 200-level coursework requirement.
Credit/No Credit

BIO 299. Problems in Biological Sciences. 1 - 4 Units
Term Typically Offered: Fall, Spring

Library research, short-term original research, technique development, or thesis research site selection and preliminary field observations. Culminating experience will be in the format of a scientific paper, annotated bibliography, demonstration of technique mastery, or oral presentation. Enrollment requires classified graduate status and approval of the project by a faculty supervisor and the Department Chair.
Credit/No Credit

BIO 500. Master's Thesis. 4 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree. Should be taken in final semester prior to the completion of all requirements for the degree.

BIO 502. Master's Project. 2 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her committee.
Term Typically Offered: Fall, Spring

Completion of a written project based on a research problem in biology approved for the Master of Arts Degree. Should be taken in final semester prior to the completion of all requirements for the degree.

BIO 633. Human Gross Anatomy for Physical Therapists. 3 Units
Prerequisite(s): BIO 22 or instructor permission.
Corequisite(s): PT 600, PT 602, PT 608, PT 630.
Term Typically Offered: Fall, Spring

Study of the gross anatomy of selected regions of the human body. Emphasis will be placed on musculoskeletal, neurovascular and anatomy of the joints of the back, thoracic wall, abdominal wall, upper limb and lower limb. Anatomical relationships will be reinforced through study of cross-sectional anatomy. Lecture two hours; lab three hours.
Note: Course designed for students enrolled in the Doctor of Physical Therapy Program.

Department of Biological Sciences

Program Description

Moss Landing Marine Laboratories (MLML) at Moss Landing, California, is operated year round by the California State University. This marine facility functions as an extension of seven participating State Universities (Fresno, Hayward, Monterey Bay, Sacramento, San Francisco, San Jose, Stanislaus) and offers full-time coursework in marine biology, oceanography, marine geology, and other marine sciences.

Enrollment is open to properly qualified upper division and graduate students from each of the participating colleges. New students may qualify through normal matriculation procedures at one of the home campuses. With approval of academic advisors, students may satisfy a part of their requirements in Biological Sciences through courses offered at the Moss Landing Laboratories. The Master of Science degree in Marine Science is offered as an interdepartmental degree through Biological Sciences in cooperation with Moss Landing Marine Laboratories.

Degree Program

MS in Marine Science (p. 809)

Special Features

- Most courses are field-oriented, taking advantage of a diversity of nearby coastal and marine habitats, including Monterey Submarine Canyon, subtidal kelp forests, Elkhorn Slough, and rocky and sandy intertidal zones.
- Field activities are facilitated by the MLML fleet, the 135' R/V POINT SUR, the 35' R/V ED RICKETTS, two Boston Whalers, and a number of inflatable rafts.
- Ongoing research by faculty and graduate students further enhances the MLML learning experience.

Contact Information

Kenneth Coale, Director of the Laboratories
P.O. Box 450, Moss Landing, CA 95039-0450
(408) 755-8656

Jamie Kneitel, Department of Biological Sciences Chair
Sequoia Hall 202
(916) 278-6535

Amy Wagner, Ph.D.
Placer Hall 1017
(916) 278-5136

MSCI 103. Marine Ecology. 4 Units
Prerequisite(s): Ecology, statistics; or concurrent registration in MSCI 104.
Term Typically Offered: Fall, Spring

Field-oriented introduction to the interrelationships between marine and estuarine organisms and their environment with emphasis on quantitative data collection and analysis. Lecture two hours; laboratory six hours.

MSCI 104. Quantitative Marine Science. 4 Units
Prerequisite(s): College mathematics.
Term Typically Offered: Fall, Spring

Mathematical methods for the analysis of biological, chemical and physical data from the marine environment; experimental design, parametric and nonparametric statistics. Lecture three hours; laboratory three hours.
Note: Not for major credit.

MSCI 105. Marine Science Diving. 3 Units
Prerequisite(s): Upper division science major status, thorough physical examination, ability to pass swimming test.
Term Typically Offered: Fall, Spring

Skin SCUBA diving course, pool-training culminates in ten ocean dives. Topics covered included diving physics, physiology, diving environments, night diving and research diving. Successful completion gives NAUI and MLML certification. Lecture one hour; laboratory six hours.
Note: Not for major credit.

MSCI 112. Marine Birds and Mammals. 4 Units
Prerequisite(s): Upper division college vertebrate zoology or instructor permission; MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Systematic, morphology, ecology and biology of marine birds and mammals. Lecture two hours; laboratory six hours.

MSCI 113. Marine Ichthyology. 4 Units
Prerequisite(s): College zoology or equivalent or instructor permission; MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Description of the taxonomy, morphology, and ecology of marine fishes. Both field and laboratory work concentrate on the structure, function and habits of marine fishes and the ecological interactions of these fishes with their biotic and abiotic surroundings. Lecture two hours; laboratory six hours.

MSCI 124. Marine Invertebrate Zoology I. 4 Units
Prerequisite(s): College zoology or instructor permission; MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Field oriented introduction to the structure, systematics, evolution, and life histories of the major and minor marine phyla. Lecture two hours; laboratory and six hours.

MSCI 125. Marine Invertebrate Zoology II. 3 Units
Prerequisite(s): College zoology or instructor permission; MSCI 103 and MSCI 124 recommended.
Term Typically Offered: Fall, Spring

Field oriented introduction to the structure, systematics, evolution and life histories of the minor marine invertebrate phyla. Lecture one hour; laboratory and field six hours.

MSCI 131. Marine Botany. 4 Units
Prerequisite(s): MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Introduction to the plants of the sea, marshes, and dunes, with emphasis on the morphology, taxonomy and natural history of seaweeds and vascular plants. Lecture two hours; laboratory six hours.

MSCI 135. Physiology of Marine Algae. 4 Units
Prerequisite(s): MSCI 103, MSCI 131, and MSCI 144. Lecture two hours; laboratory six hours.
Term Typically Offered: Fall, Spring

Physiological basis for understanding the adaptation of marine algae to their environment. Topics include respiration, enzyme activity, and biochemical composition. Hands-on experience in basic electronic instrumentation, chemical separations, optical measurements, culturing methods, and radioisotope techniques.

MSCI 141. Geological Oceanography. 4 Units
Prerequisite(s): MSCI 142, MSCI 143; may be taken concurrently.
Term Typically Offered: Fall, Spring

Study of the structures, physiography and sediments of the sea bottom and shoreline. Lecture two hours; laboratory and field six hours.

MSCI 142. Physical Oceanography. 4 Units
Prerequisite(s): College algebra, college physics recommended.
Term Typically Offered: Fall, Spring

Introduction to the nature and causes of various oceanic motions including currents, waves, tides, and mixing and the Physical properties of seawater. Limited use of calculus. Lecture three hours; laboratory three hours.

MSCI 143. Chemical Oceanography. 4 Units
Prerequisite(s): One year of college chemistry.
Term Typically Offered: Fall, Spring

Introduction to the theoretical and practical aspects of the chemistry of the oceans, including major salts, dissolved gases, nutrient ions, carbonate system, transient tracers, and shipboard sampling techniques. Lecture two hours; laboratory six hours.

MSCI 144. Biological Oceanography. 4 Units
Prerequisite(s): General biology, general chemistry.
Term Typically Offered: Fall, Spring

Ocean as an ecological system. Emphasis will be on the complexity of organismal-environmental interaction of the plankton, the transfer of organic matter between trophic levels and nutrient cycles. Laboratory sessions will include methods in sampling, shipboard techniques, identification of the plankton, and current analytical techniques. Lecture two hours; laboratory six hours.

MSCI 175A. Coastal Geol Processes. 1 Unit
Term Typically Offered: Fall, Spring

MSCI 175B. Intro To Marine Science. 1 Unit
Term Typically Offered: Fall, Spring

MSCI 180. Independent Study. 1 - 4 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Faculty-directed study of selected research problems; open to undergraduate students with adequate preparation. Three hours work per unit.

MSCI 201. Library Research Methods. 1 Unit
Prerequisite(s): Graduate standing in the Marine Science M.S. program and instructor permission.
Term Typically Offered: Fall, Spring

Students will gain advanced understanding of the nature of scientific information. Provides the framework for using and evaluating a variety of information sources in marine and ocean sciences. Strong emphasis will be placed on developing critical skills to interweave knowledge of the history of science into the context of bibliographic tools including the digital realm. Lecture: three hours.

MSCI 202. Oceanographic Instrumentation. 4 Units
Prerequisite(s): MSCI 141, MSCI 142 and instructor permission.
Term Typically Offered: Fall, Spring

Principles of instruments used in oceanographic research, introduction to electronics, and applications of instrument measurements. Emphasis will vary from CTD profilers, current meters, radiometry and chemical measurement. Lecture two hours; laboratory six hours.

MSCI 204. Sampling and Experimental Design. 4 Units
Prerequisite(s): MSCI 103, MSCI 104.
Term Typically Offered: Fall, Spring

Discussion of random sampling, systematic sampling, subsampling, survey techniques, and design of single and multifactorial experiments using randomized and block experimental designs: basic design of experiments and field sampling will be covered. Biases and problems of sampling marine biota will be presented and discussed by critiquing relevant literature. Lecture four hours.

MSCI 208. Molecular Ecology: Concepts and Methods. 4 Units
Prerequisite(s): Basic cellular/molecular biology course; consent of instructor.
Term Typically Offered: Fall, Spring

Use of genetic information affecting interactions of organisms with environment. Lectures on molecular markers used to assess diversity in communities, characterize spatial/temporal variation in species composition, assess genetic variability in populations, discriminate/reveal kinship among individuals, and detect/quantify gene expression important in organismal responses to environmental fluctuation. Basic molecular methods (DNA and RNA isolation/amplification/cloning/sequencing) taught. Students projects as budget permits. Enrollment limited. Lecture 2 hours; laboratory 6 hours.

MSCI 211. Ecology of Marine Birds and Mammals. 4 Units
Prerequisite(s): MSCI 103, MSCI 104, MSCI 112.
Term Typically Offered: Fall, Spring

Community approach to the ecology of marine birds and mammals using experimental and sampling methodology; examine the distribution, abundance, trophic ecology, and behaviors of birds and mammals in Elkhorn Slough and Monterey Bay. Lecture two hours; laboratory six hours.

MSCI 212. Advanced Topics in Marine Vertebrates. 4 Units
Prerequisite(s): MSCI 112 or MSCI 113 and instructor permission.
Term Typically Offered: Fall, Spring

Advanced consideration of the ecology, physiology and phylogeny of fishes, birds, reptiles or mammals, emphasizing current literature and research. Topics and emphasis will vary with term and instructor. Lecture two hours; laboratory six hours.
Note: May be repeated once for credit.

MSCI 212A. Adv Ichthyology. 4 Units
Term Typically Offered: Fall, Spring

MSCI 212B. Ichthyoplankton. 4 Units
Term Typically Offered: Fall, Spring

MSCI 212C. Marine Bird+Mammal Ecolgy. 4 Units
Term Typically Offered: Fall, Spring

MSCI 212D. Sampling+Expermntl Design. 4 Units
Term Typically Offered: Fall, Spring

MSCI 221. Advanced Topics in Marine Invertebrates. 4 Units
Prerequisite(s): MSCI 124 and instructor permission.
Term Typically Offered: Fall, Spring

Advanced considerations of the ecology, physiology and phylogeny of the various invertebrate phyla emphasizing current literature and research. Topics will vary from term to term. Lecture two hours; laboratory six hours.
Note: May be repeated for credit when topics change.

MSCI 221A. Marine Symbioses. 4 Units
Term Typically Offered: Fall, Spring

MSCI 231. Biology Of Seaweeds. 4 Units
Prerequisite(s): MSCI 131 or instructor permission.
Term Typically Offered: Fall, Spring

Lecture-discussions in algal development, reproduction, and ecology. Extensive reading of original literature. Ecologically oriented individual research projects involving laboratory culture and field experimentation. Lecture two hours; laboratory six hours.

MSCI 233A. Adv Marine Ecology. 4 Units
Term Typically Offered: Fall, Spring

MSCI 233B. Sampling+Expermntl Design. 4 Units
Term Typically Offered: Fall, Spring

MSCI 233C. Coastal Ecology-Gulf of California. 3 Units
Prerequisite(s): MSCI 103, MSCI 104, MLML SCUBA certified, graduate status, instructor permission.
Term Typically Offered: Fall, Spring

Field-oriented examination of the interrelationships between intertidal and shallow subtidal organisms and their environment in the Gulf of California, Mexico. Information from lectures and review of primary literature on the ecology of the region will be used to write a research proposal. 1 hour lecture, 6 hours laboratory.

MSCI 233D. Immune Respn Marine Orgns. 2 Units
Term Typically Offered: Fall, Spring

MSCI 234. Advanced Biological Oceanography. 4 Units
Prerequisite(s): MSCI 144.
Term Typically Offered: Fall, Spring

Experimental techniques in biological oceanography with emphasis on problems important to plankton ecology. Includes lectures, labs, and discussions of current research problems. An individual research project involving analytical tools will be required. Lecture two hours; laboratory six hours.

MSCI 242. Plate Tectonics. 3 Units
Prerequisite(s): MSCI 141 or instructor permission.
Term Typically Offered: Fall, Spring

Historical background, modern theory, and geo-physical evidence of continental drift sea floor spreading and plate tectonics. Examinations of the impact of the recent revolution in historical geology. Lecture three hours.

MSCI 248. Marine Benthic Habitat Techniques. 4 Units
Prerequisite(s): Graduate standing and instructor permission.
Term Typically Offered: Fall, Spring

Collection and interpretation of geophysical data used to characterize marine benthic habitats. Basic geophysical principles will be reviewed. Application of techniques to identify and characterize marine benthic habitats, including echosounders, multibeam bathymetry and backscatter, sidescan sonar, seismic profiling, and GIS. Lecture two hours; laboratory six hours.

MSCI 251. Marine Geochemistry. 4 Units
Prerequisite(s): MSCI 143, quantitative analysis, one year calculus or instructor permission.
Term Typically Offered: Fall, Spring

Geochemical processes in the oceans: thermodynamics of low temperature aqueous reactions, processes occurring at the sea floor and air-sea interface. Lecture two hours; laboratory six hours.

MSCI 261. Ocean Circulation and Mixing. 4 Units
Prerequisite(s): MSCI 142; college physics strongly recommended or instructor permission.
Term Typically Offered: Fall, Spring

Mathematical description of the distribution of properties (salinity density, etc.) in the oceans relating to physical and biochemical processes. Equations of motion, geotropic method, and theory of distribution of variables. Lecture two hours; laboratory six hours.

MSCI 262. Satellite Oceanography. 4 Units
Prerequisite(s): MSCI 142, MSCI 144, or instructor permission. MSCI 263 strongly recommended.
Term Typically Offered: Fall, Spring

Physical principles of remote sensing with application to the oceans including satellite image processing methods. Labs involve use of PC and Unix workstation. Lecture two hours; laboratory six hours.

MSCI 263. Application of Computers in Oceanography. 4 Units
Prerequisite(s): College math and instructor permission.
Term Typically Offered: Fall, Spring

Lecture, discussion and technical programming with MATLAB for computation and visualization with applications in marine sciences. Use of existing program libraries for data I/O and analysis. Semester project required. Lecture two hours; laboratory six hours.

MSCI 271. Population Biology. 3 Units
Prerequisite(s): MSCI 103, MSCI 104; or instructor permission.
Term Typically Offered: Fall, Spring

Principles of the interaction among marine organisms that result in the alteration of population structures. Techniques for assessment and management of populations. Lecture two hours; laboratory three hours.

MSCI 272. Subtidal Ecology. 4 Units
Prerequisite(s): MLML diver certification and marine ecology (knowledge of marine algae, invertebrates, and statistics recommended).
Term Typically Offered: Fall, Spring

Ecology of nearshore rocky subtidal populations and communities with emphasis on kelp forests. Lectures and discussions of original literature. Field work with SCUBA including group projects on underwater research techniques and community analysis, and individual research on ecological questions chosen by the student. Lecture two hours; laboratory six hours.

MSCI 274A. Electron Micros+Microanl. 3 Units
Term Typically Offered: Fall, Spring

MSCI 274B. Geol Central Ca Margin. 4 Units
Term Typically Offered: Fall, Spring

MSCI 274C. Chem Of Marine Pollution. 4 Units
Term Typically Offered: Fall, Spring

MSCI 274D. Global Change. 3 Units
Term Typically Offered: Fall, Spring

MSCI 280. Scientific Writing. 3 Units
Prerequisite(s): Graduate status and instructor permission.
Term Typically Offered: Fall, Spring

Techniques and strategies of scientific writing used for proposals, journal submissions, and abstracts for meetings. Students will develop their writing skills by preparing, editing, and rewriting manuscripts. Lecture three hours.

MSCI 281. Coastal Dynamics. 4 Units
Prerequisite(s): Graduate standing and MSCI 141 or MSCI 142.
Term Typically Offered: Fall, Spring

Addresses the oceanographic dynamics of coastal environments, within an emphasis on eastern boundary current systems influenced by coastal upwelling. Focuses on how physical and geological oceanography interact with each other and how both affect coastal ecosystem dynamics.

MSCI 285. Seminar in Marine Biology. 2 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar. Lecture two hours.
Note: May be repeated once for credit.

MSCI 285A. Social Biology. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285B. Repro+Dev Marine Organism. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285C. Recent Adv Deep-Sea Bio. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285D. Controversies Modern Biol. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285E. Paradigms In Commun Ecol. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285F. Appl Moleclr Tech Mar Bio. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285G. Aspects Of Deep-Sea Biol. 2 Units
Term Typically Offered: Fall, Spring

MSCI 286. Seminar in Marine Geology. 2 Units
Term Typically Offered: Fall, Spring

Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar.
Note: May be repeated once for credit.

MSCI 287. Seminar In Oceanography. 2 Units
Term Typically Offered: Fall, Spring

Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar.
Note: May be repeated once for credit.

MSCI 298. Research in the Marine Sciences. 1 - 4 Units
Prerequisite(s): Graduate standing and instructor permission.
Term Typically Offered: Fall, Spring

Independent investigations of an advanced character for the graduate student with adequate preparation.
Note: CSUH students must file a petition with their home campus department before admission to this class. CSU Stanislaus students must file Individual Study forms. CSUF students must file Research Approval forms.

MSCI 299. Master's Thesis. 1 - 4 Units
Term Typically Offered: Fall, Spring

BA in Biological Science

Units required for Major: 63-67
Total units required for BA: 120

Program Description

The Department of Biological Sciences offers both undergraduate and graduate degree programs. At the undergraduate level, students are able to earn a Bachelor of Arts degree, a Bachelor of Science degree, or a Minor in Biological Sciences.

Pre-Major Requirements

The Biological Sciences program at Sacramento State is one of the most highly sought after programs in Northern California. Due to the large number of applications, the program is now officially impacted. Students wishing to become Biological Science majors must complete a series of required lower division and then must apply for admission to the program. Check the department website for requirements, and it is highly recommended that interested students speak with an advisor at the Natural Sciences Advising Center (NSAC) as soon as possible.

Freshmen interested in the major are admitted as pre-Biological Science majors.

To change to the Biological Sciences major, pre-major students are required to complete the following courses and grade requirements and submit a Declaration of Major form to the Biological Science Department Office along with transcript copies.

1. Completion of the following lower division 'pre-major' courses with a minimum 'C' or better. Only first or second attempt will be considered:

Code	Title	Units
BIO 1	Biodiversity, Evolution and Ecology (or equivalent)	5
BIO 2	Cells, Molecules and Genes (or equivalent)	5
CHEM 1A	General Chemistry I (or equivalent)	5
STAT 1	Introduction to Statistics (or equivalent)	3
ENGL 5	Accelerated Academic Literacies (or equivalent) [1]	3

2. Overall GPA of 2.5 based on the pre-major courses listed above.
3. Minimum of 30 units completed at the college level.

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Program Requirements

Code	Title	Units
Required Lower Division Courses (37-41 Units)		
BIO 1	Biodiversity, Evolution and Ecology [1]	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I [1]	5
CHEM 1B	General Chemistry II	5
Select one of the following:		3 - 6
CHEM 20	Organic Chemistry Lecture--Brief Course [2]	
CHEM 24 & CHEM 124	Organic Chemistry Lecture I Organic Chemistry Lecture II	
Select one of the following:		3 - 4
MATH 26A	Calculus I for the Social and Life Sciences	
MATH 30	Calculus I	
PHYS 5A	General Physics: Mechanics, Heat, Sound	4
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics	4
STAT 1	Introduction to Statistics [1]	3
Required Upper Division Courses (23 Units)		
BIO 100	Introduction to Scientific Analysis	3
BIO 121	Molecular Cell Biology	3
BIO 139	General Microbiology	4
BIO 160	General Ecology	3
BIO 184	General Genetics	4
BIO 188	Evolution	3
CHEM 161	General Biochemistry [3]	3
Elective Courses (3 Units)		
Select one course from the following Structure and Function Electives:		3
BIO 104	Physiology of Human Reproduction	
BIO 122	Advanced Human Anatomy	
BIO 123	Neuroanatomy	
BIO 126	Comparative Vertebrate Morphology	
BIO 127	Developmental Biology	
BIO 128	Plant Anatomy and Physiology	
BIO 130	Histology	
BIO 131	Systemic Physiology	
BIO 132	Neurophysiology	
BIO 133	Cardiovascular, Respiratory and Renal Physiology	
BIO 135	Endocrinology	
Total Units		63-67

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] CHEM 24 and CHEM 124 may be taken in lieu of CHEM 20. (CHEM 124 is not counted toward the 24 upper division unit requirement in the major.)

[3] CHEM 160A and CHEM 160B may be taken in lieu of CHEM 161. Only three units of the package may be counted toward the upper division major requirement.

Notes:

- Pre-Health Professional students should take the Chemistry and Math requirements as stated in the Pre-Health Professional Program section of this catalog.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6 Units)		
A1 - Oral Communication		3
A2 - Written Communication [2]		0
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		36

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Biological Sciences Honors Program

Program Description

Biological Sciences Honors Program provides undergraduate students with an in-depth research experience. An undergraduate research experience is highly recommended for entry into many graduate and professional programs. Culmination of the Honors Program will consist of an undergraduate thesis and an undergraduate seminar.

Admission Requirements

To enter this program, students must have an overall GPA of 3.25 and a minimum of 3.0 GPA in biology courses with at least 15 units of biology and have completed at least 6 units of upper division biology courses, excluding the following:

Code	Title	Units
BIO 106	Genetics: From Mendel to Molecules	3
BIO 195	Biological Internship	1 - 2
BIO 197A	Laboratory Teaching Assistant	1 - 2
BIO 197B	Laboratory Techniques	1 - 2
BIO 197C	Co-curricular Activities in Biology	1 - 2
BIO 199A	Introductory Undergraduate Research	1 - 2
BIO 199B	Directed Readings	1 - 2

Program Requirements

The curriculum of the Honors Program is designed to be coupled with the **BA or BS degree** programs. The Honors Program requires the following courses, completed with a grade of 'B' or better, for the BA or BS degree:

Code	Title	Units
BIO 198A	Honors Proseminar and Research (Open only to honors students in Biological Sciences as defined above)	2
BIO 198B	Honors Research and Seminar	2

BS in Biological Science (Biomedical Sciences)

Units required for Major: 73-85, includes units of study in chosen concentration (see below).
Total units required for BS: 120

Program Description

The concentration in Biomedical Sciences is designed to prepare students for graduate study in the anatomical and physiological sciences or for health professional training (Medical, Veterinary, Physical Therapy, Nursing, Pharmacy, or other health professions).

Note:

- CHEM 24 and CHEM 124 are required instead of CHEM 20 for the Biomedical Sciences Concentration.
- Additional units may be required to meet the Sacramento State foreign language requirement.

Pre-Major Requirements

The Biological Sciences program at Sacramento State is one of the most highly sought after programs in Northern California. Due to the large number of applications, the program is now officially impacted. Students wishing to become Biological Science majors must complete a series of required lower division and then must apply for admission to the program. Check the department website for requirements, and it is highly recommended that interested students speak with an advisor at the Natural Sciences Advising Center (NSAC) as soon as possible.

Freshmen interested in the major are admitted as pre-Biological Science majors.

To change to the Biological Sciences major, pre-major students are required to complete the following courses and grade requirements and submit a Declaration of Major form to the Biological Science Department Office along with transcript copies.

1. Completion of the following lower division 'pre-major' courses with a minimum 'C' or better. Only first or second attempt will be considered:

Code	Title	Units
BIO 1	Biodiversity, Evolution and Ecology	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I	5
STAT 1	Introduction to Statistics	3
ENGL 5	Accelerated Academic Literacies [1]	3

1. Overall GPA of 2.5 based on the pre-major courses listed above.
2. Minimum of 30 units completed at the college level.

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (37-41 Units)		
BIO 1	Biodiversity, Evolution and Ecology [1]	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I [1]	5
CHEM 1B	General Chemistry II	5
Select one of the following:		3 - 6
CHEM 20	Organic Chemistry Lecture--Brief Course [2]	
CHEM 24 & CHEM 124	Organic Chemistry Lecture I Organic Chemistry Lecture II	
Select one of the following:		3 - 4
MATH 26A	Calculus I for the Social and Life Sciences	
MATH 30	Calculus I	
PHYS 5A	General Physics: Mechanics, Heat, Sound	4
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics	4
STAT 1	Introduction to Statistics [1]	3
Required Upper Division Core Courses (7 Units)		
BIO 100	Introduction to Scientific Analysis	3
BIO 184	General Genetics	4
Concentration (29-37 Units)		
Select from the following concentrations:		29 - 37
General Biology		
Biomedical Sciences		
Cell and Molecular Biology		
Clinical Laboratory Sciences		
Ecology, Evolution, and Conservation		
Forensic Biology		
Microbiology		
Total Units		73-85

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] CHEM 24 and CHEM 124 may be taken in lieu of CHEM 20. (CHEM 124 is not counted toward the 36 upper division unit requirement in the major except in the Biomedical Sciences Concentration.)

Notes:

- Pre-Health Professional students should take the Chemistry and Math requirements as stated in the Pre-Health Professional Program section of this catalog.
- With approval, up to six units of upper division coursework from related fields may be applied as electives in the major.
- No more than 3 units from the following combined can be applied to the Biological Sciences upper division major requirement. No more than 2 units from BIO 195 and 197 series courses can be used toward this requirement.

Code	Title	Units
BIO 195	Biological Internship	1 - 2
BIO 197A	Laboratory Teaching Assistant	1 - 2
BIO 197B	Laboratory Techniques	1 - 2
BIO 197C	Co-curricular Activities in Biology	1 - 2
BIO 199A	Introductory Undergraduate Research	1 - 2
BIO 199B	Directed Readings	1 - 2

Concentration in Biomedical Sciences (33 units)

Code	Title	Units
Required Courses (21 Units)		
BIO 22	Introductory Human Anatomy	4
BIO 121	Molecular Cell Biology	3
BIO 131	Systemic Physiology	4
BIO 139	General Microbiology	4
CHEM 25	Organic Chemistry Laboratory	3
CHEM 161	General Biochemistry	3
Elective Courses (12 Units)		
Select one of the following Structure and Function electives:		3
BIO 104	Physiology of Human Reproduction	
BIO 122	Advanced Human Anatomy	
BIO 123	Neuroanatomy	
BIO 126	Comparative Vertebrate Morphology	
BIO 127	Developmental Biology	
BIO 128	Plant Anatomy and Physiology	
BIO 130	Histology	
BIO 132	Neurophysiology	
BIO 133	Cardiovascular, Respiratory and Renal Physiology	
Select one of the following Ecology, Evolution, and Biodiversity electives:		3
Part A: Biodiversity Electives		
BIO 103	Plants and Civilization	
BIO 112	Plant Taxonomy	
BIO 140	Medical Microbiology and Emerging Infectious Diseases	
BIO 145	The Diversity of Microorganisms	
BIO 152	Human Parasitology	
BIO 157	General Entomology	
BIO 162	Ichthyology: The Study of Fishes	
BIO 164	Amphibians and Reptiles: An Introduction to Herpetology	
BIO 166	Ornithology	
BIO 168	Mammalogy	
Part B: Ecology and Evolution Electives		
BIO 113	Evolution and Speciation in Flowering Plants	
BIO 118	Natural Resource Conservation	
BIO 160	General Ecology	
BIO 169	Animal Behavior	
BIO 173	Principles of Fisheries Biology	
BIO 179	Conservation Biology & Wildlife Management	
BIO 188	Evolution	
Select additional electives in consultation with an advisor to total 12 upper division elective units		6
Total Units		33

Note: Students in Biomedical Sciences concentration must take CHEM 24 and CHEM 124 instead of CHEM 20.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6 Units)		
A1 - Oral Communication		3
A2 - Written Communication [2]		0
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		36

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3

American Institutions: U.S. Constitution & CA Government	3
Writing Intensive (WI)	3
Graduation Requirements (required by Sacramento State) (12 Units)	
English Composition II	3
Race and Ethnicity in American Society (RE)	3
Foreign Language Proficiency Requirement [2]	6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BS in Biological Science (Cell and Molecular Biology)

Units required for Major: 73-85, includes units of study in chosen concentration (see below).
Total units required for BS: 120

Program Description

The concentration in Cell and Molecular Biology is designed for students interested in advanced studies at the Masters or Ph.D. level, students pursuing career working in biotechnology, or pre-health professions majors pursuing a fundamental understanding of the bimolecular basis of disease. Students completing the degree requirements for the Cell and Molecular Biology concentration also fulfills the requirements for a minor in Chemistry.

Pre-Major Requirements

The Biological Sciences program at Sacramento State is one of the most highly sought after programs in Northern California. Due to the large number of applications, the program is now officially impacted. Students wishing to become Biological Science majors must complete a series of required lower division and then must apply for admission to the program. Check the department website for requirements, and it is highly recommended that interested students speak with an advisor at the Natural Sciences Advising Center (NSAC) as soon as possible.

Freshmen interested in the major are admitted as pre-Biological Science majors.

To change to the Biological Sciences major, pre-major students are required to complete the following courses and grade requirements and submit a Declaration of Major form to the Biological Science Department Office along with transcript copies.

1. Completion of the following lower division 'pre-major' courses with a minimum 'C' or better. Only first or second attempt will be considered:

Code	Title	Units
BIO 1	Biodiversity, Evolution and Ecology	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I	5
STAT 1	Introduction to Statistics	3
ENGL 5	Accelerated Academic Literacies [1]	3

1. Overall GPA of 2.5 based on the pre-major courses listed above.
2. Minimum of 30 units completed at the college level.

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (37-41 Units)		
BIO 1	Biodiversity, Evolution and Ecology [1]	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I [1]	5
CHEM 1B	General Chemistry II	5
Select one of the following:		3 - 6
CHEM 20	Organic Chemistry Lecture--Brief Course [2]	
CHEM 24 & CHEM 124	Organic Chemistry Lecture I Organic Chemistry Lecture II	
Select one of the following:		3 - 4
MATH 26A	Calculus I for the Social and Life Sciences	
MATH 30	Calculus I	
PHYS 5A	General Physics: Mechanics, Heat, Sound	4
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics	4
STAT 1	Introduction to Statistics [1]	3
Required Upper Division Core Courses (7 Units)		
BIO 100	Introduction to Scientific Analysis	3
BIO 184	General Genetics	4
Concentration (29-37 Units)		
Select from the following concentrations:		29 - 37
General Biology		
Biomedical Sciences		
Cell and Molecular Biology		
Clinical Laboratory Sciences		
Ecology, Evolution, and Conservation		
Forensic Biology		
Microbiology		
Total Units		73-85

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] CHEM 24 and CHEM 124 may be taken in lieu of CHEM 20. (CHEM 124 is not counted toward the 36 upper division unit requirement in the major except in the Biomedical Sciences Concentration.)

Notes:

- Pre-Health Professional students should take the Chemistry and Math requirements as stated in the Pre-Health Professional Program section of this catalog.
- With approval, up to six units of upper division coursework from related fields may be applied as electives in the major.
- No more than 3 units from the following combined can be applied to the Biological Sciences upper division major requirement. No more than 2 units of Bio 195 and 197 series courses may be used to count toward the degree.

Code	Title	Units
BIO 195	Biological Internship	1 - 2
BIO 197A	Laboratory Teaching Assistant	1 - 2
BIO 197B	Laboratory Techniques	1 - 2
BIO 197C	Co-curricular Activities in Biology	1 - 2
BIO 199A	Introductory Undergraduate Research	1 - 2
BIO 199B	Directed Readings	1 - 2

Concentration in Cell and Molecular Biology (34-36 units)

Code	Title	Units
Required Courses (25-27 Units)		
BIO 121	Molecular Cell Biology	3
BIO 180	Advanced Molecular Biology	4
BIO 187	Advanced Cell Biology	4
BIO 188	Evolution	3
CHEM 20L	Introductory Organic Chemistry Laboratory	1 - 3
or CHEM 25	Organic Chemistry Laboratory	
CHEM 31	Quantitative Analysis	4
CHEM 161	General Biochemistry [1]	3
CHEM 162	General Biochemistry Laboratory [2]	3
Elective Courses (9 Units)		
Select one of the following:		4
BIO 126	Comparative Vertebrate Morphology	
BIO 127	Developmental Biology	
BIO 128	Plant Anatomy and Physiology	
BIO 131	Systemic Physiology	
Select one of the following Ecology, Evolution, and Biodiversity electives:		3
Part A: Biodiversity Electives		
BIO 103	Plants and Civilization	
BIO 112	Plant Taxonomy	
BIO 140	Medical Microbiology and Emerging Infectious Diseases	
BIO 145	The Diversity of Microorganisms	
BIO 152	Human Parasitology	
BIO 157	General Entomology	
BIO 162	Ichthyology: The Study of Fishes	
BIO 164	Amphibians and Reptiles: An Introduction to Herpetology	
BIO 166	Ornithology	
Part B: Ecology and Evolution Electives		
BIO 113	Evolution and Speciation in Flowering Plants	
BIO 118	Natural Resource Conservation	
BIO 160	General Ecology	
BIO 169	Animal Behavior	
BIO 173	Principles of Fisheries Biology	
BIO 179	Conservation Biology & Wildlife Management	
Select additional upper division electives in consultation with an advisor to total 9 units.		2
Total Units		34-36

[1] CHEM 160A and CHEM 160B may be taken in lieu of CHEM 161. Only three units of the package may be counted toward the upper division major requirement.

[2] CHEM 162 is included in the 36 upper division unit requirement for this concentration.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6 Units)		
A1 - Oral Communication		3
A2 - Written Communication [2]		0
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		

Area E Course	3
Total Units	36

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BS in Biological Science (Clinical Laboratory Sciences)

Units required for Major: 73-85, includes units of study in chosen concentration (see below).
Total units required for BS: 120

Program Description

The curriculum in Clinical Laboratory Sciences meets the undergraduate coursework requirements of the State of California for eligibility to take a Clinical Laboratory Scientist (CSL) licensure examination. Eligibility to take a licensure examination also requires a one year (CLS) internship training program at a state approved clinical laboratory. Completion of BS degree requirements in the Clinical Laboratory Sciences concentration does not guarantee admission to a CLS internship training program. Information on admission criteria and application procedures for the various CLS internship training programs throughout the state is available through the California Association for Medical Laboratory Technology (CAMLT) at their website (http://www.camlt.org/cls/).

Pre-Major Requirements

The Biological Sciences program at Sacramento State is one of the most highly sought after programs in Northern California. Due to the large number of applications, the program is now officially impacted. Students wishing to become Biological Science majors must complete a series of required lower division and then must apply for admission to the program. Check the department website for requirements, and it is highly recommended that interested students speak with an advisor at the Natural Sciences Advising Center (NSAC) as soon as possible.

Freshmen interested in the major are admitted as pre-Biological Science majors.

To change to the Biological Sciences major, pre-major students are required to complete the following courses and grade requirements and submit a Declaration of Major form to the Biological Science Department Office along with transcript copies.

1. Completion of the following lower division 'pre-major' courses with a minimum 'C' or better. Only first or second attempt will be considered:

Code	Title	Units
BIO 1	Biodiversity, Evolution and Ecology	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I	5
STAT 1	Introduction to Statistics	3
ENGL 5	Accelerated Academic Literacies [1]	3

1. Overall GPA of 2.5 based on the pre-major courses listed above.
2. Minimum of 30 units completed at the college level.

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (37-41 Units)		
BIO 1	Biodiversity, Evolution and Ecology [1]	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I [1]	5
CHEM 1B	General Chemistry II	5
Select one of the following:		3 - 6
CHEM 20	Organic Chemistry Lecture--Brief Course [2]	
CHEM 24 & CHEM 124	Organic Chemistry Lecture I Organic Chemistry Lecture II	
Select one of the following:		3 - 4
MATH 26A	Calculus I for the Social and Life Sciences	
MATH 30	Calculus I	
PHYS 5A	General Physics: Mechanics, Heat, Sound	4
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics	4
STAT 1	Introduction to Statistics [1]	3
Required Upper Division Core Courses (7 Units)		

BIO 100	Introduction to Scientific Analysis	3
BIO 184	General Genetics	4
Concentration (29-37 Units)		
Select from the following concentrations:		29 - 37
General Biology		
Biomedical Sciences		
Cell and Molecular Biology		
Clinical Laboratory Sciences		
Ecology, Evolution, and Conservation		
Forensic Biology		
Microbiology		
Total Units		73-85

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] CHEM 24 and CHEM 124 may be taken in lieu of CHEM 20. (CHEM 124 is not counted toward the 36 upper division unit requirement in the major except in the Biomedical Sciences Concentration.)

Notes:

- Pre-Health Professional students should take the Chemistry and Math requirements as stated in the Pre-Health Professional Program section of this catalog.
- With approval, up to six units of upper division coursework from related fields may be applied as electives in the major.
- No more than 3 units from the following combined can be applied to the Biological Sciences upper division major requirement. No more than 2 units from BIO 195 and BIO 197 series courses will count toward the degree requirement.

Code	Title	Units
BIO 195	Biological Internship	1 - 2
BIO 197A	Laboratory Teaching Assistant	1 - 2
BIO 197B	Laboratory Techniques	1 - 2
BIO 197C	Co-curricular Activities in Biology	1 - 2
BIO 199A	Introductory Undergraduate Research	1 - 2
BIO 199B	Directed Readings	1 - 2

Concentration in Clinical Laboratory Sciences (34 units)

Code	Title	Units
Required courses (34 Units)		
BIO 121	Molecular Cell Biology	3
BIO 124	Clinical Hematology	3
BIO 131	Systemic Physiology	4
BIO 139	General Microbiology	4
BIO 144	Pathogenic Bacteriology	4
BIO 149A	Immunology	3
BIO 152	Human Parasitology	3
CHEM 31	Quantitative Analysis	4
CHEM 161	General Biochemistry [1]	3
CHEM 162	General Biochemistry Laboratory [2]	3
Total Units		34

[1] CHEM 160A and CHEM 160B may be taken in lieu of CHEM 161. Only three units of the package may be counted toward the upper division requirement.

[2] CHEM 162 can be included in the 36 upper division unit requirement for this concentration.

Note: A minor in Chemistry may be attained if either CHEM 20L or CHEM 25 is taken.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6 Units)		
A1 - Oral Communication		3
A2 - Written Communication [2]		0
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		36

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BS in Biological Science (Ecology, Evolution, and Conservation)

Units required for Major: 73-85, includes units of study in chosen concentration (see below).
Total units required for BS: 120

Program Description

The concentration in Ecology, Evolution, and Conservation is designed for students interested in wildlife management conservation biology, or pursuing graduate study in ecological and evolutionary approaches in the Biological Sciences. By choosing the Conservation Biology advising track, students get necessary training for a career working with local, state, or federal agencies as a biologist or environmental scientist. The Ecology and Evolution advising track is designed to prepare students for graduate study in the Biological Sciences.

Pre-Major Requirements

The Biological Sciences program at Sacramento State is one of the most highly sought after programs in Northern California. Due to the large number of applications, the program is now officially impacted. Students wishing to become Biological Science majors must complete a series of required lower division and then must apply for admission to the program. Check the department website for requirements, and it is highly recommended that interested students speak with an advisor at the Natural Sciences Advising Center (NSAC) as soon as possible.

Freshmen interested in the major are admitted as pre-Biological Science majors.

To change to the Biological Sciences major, pre-major students are required to complete the following courses and grade requirements and submit a Declaration of Major form to the Biological Science Department Office along with transcript copies.

1. Completion of the following lower division 'pre-major' courses with a minimum 'C' or better. Only first or second attempt will be considered:

Code	Title	Units
BIO 1	Biodiversity, Evolution and Ecology	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I	5
STAT 1	Introduction to Statistics	3
ENGL 5	Accelerated Academic Literacies [1]	3

1. Overall GPA of 2.5 based on the pre-major courses listed above.
2. Minimum of 30 units completed at the college level.

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (37-41 Units)		
BIO 1	Biodiversity, Evolution and Ecology [1]	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I [1]	5
CHEM 1B	General Chemistry II	5
Select one of the following:		3 - 6
CHEM 20	Organic Chemistry Lecture--Brief Course [2]	
CHEM 24 & CHEM 124	Organic Chemistry Lecture I Organic Chemistry Lecture II	
Select one of the following:		3 - 4
MATH 26A	Calculus I for the Social and Life Sciences	
MATH 30	Calculus I	
PHYS 5A	General Physics: Mechanics, Heat, Sound	4
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics	4
STAT 1	Introduction to Statistics [1]	3
Required Upper Division Core Courses (7 Units)		
BIO 100	Introduction to Scientific Analysis	3
BIO 184	General Genetics	4
Concentration (29-37 Units)		
Select from the following concentrations:		29 - 37
General Biology		
Biomedical Sciences		
Cell and Molecular Biology		
Clinical Laboratory Sciences		
Ecology, Evolution, and Conservation		
Forensic Biology		
Microbiology		
Total Units		73-85

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] CHEM 24 and CHEM 124 may be taken in lieu of CHEM 20. (CHEM 124 is not counted toward the 36 upper division unit requirement in the major except in the Biomedical Sciences Concentration.)

Notes:

- Pre-Health Professional students should take the Chemistry and Math requirements as stated in the Pre-Health Professional Program section of this catalog.
- With approval, up to six units of upper division coursework from related fields may be applied as electives in the major.
- No more than 3 units from the following combined can be applied to the Biological Sciences upper division major requirement. No more than 2 units from BIO 195 and 197 series courses may count toward this requirement.

Code	Title	Units
BIO 195	Biological Internship	1 - 2
BIO 197A	Laboratory Teaching Assistant	1 - 2
BIO 197B	Laboratory Techniques	1 - 2
BIO 197C	Co-curricular Activities in Biology	1 - 2
BIO 199A	Introductory Undergraduate Research	1 - 2
BIO 199B	Directed Readings	1 - 2

Concentration in Ecology, Evolution, and Conservation (29 units)

Code	Title	Units
Required Courses (14 Units)		
BIO 160	General Ecology	3
BIO 167	Quantitative Methods in Biology	3
BIO 178	Molecular Ecology	4
BIO/ENVS 186B	Ecological and Environmental Issues Seminar	1
BIO 188	Evolution	3
Elective Courses (15 Units)		
Select one of the following Structure and Function electives:		3
BIO 104	Physiology of Human Reproduction	
BIO 122	Advanced Human Anatomy	
BIO 123	Neuroanatomy	
BIO 126	Comparative Vertebrate Morphology	
BIO 127	Developmental Biology	
BIO 128	Plant Anatomy and Physiology	
BIO 130	Histology	
BIO 131	Systemic Physiology	
BIO 132	Neurophysiology	
BIO 133	Cardiovascular, Respiratory and Renal Physiology	
Select three of the following Ecology, Evolution, and Biodiversity electives: [1]		9
Part A: Biodiversity Electives		
BIO 103	Plants and Civilization	
BIO 112	Plant Taxonomy	
BIO 145	The Diversity of Microorganisms	
BIO 152	Human Parasitology	
BIO 157	General Entomology	
BIO 162	Ichthyology: The Study of Fishes	
BIO 164	Amphibians and Reptiles: An Introduction to Herpetology	
BIO 166	Ornithology	
BIO 168	Mammalogy	
Part B: Ecology and Evolution Electives		
BIO 113	Evolution and Speciation in Flowering Plants	
BIO 118	Natural Resource Conservation	
BIO 169	Animal Behavior	
BIO 173	Principles of Fisheries Biology	
BIO 179	Conservation Biology & Wildlife Management	
Select additional upper division elective courses in consultation with an advisor to total 15 upper division elective units		3
Total Units		29

[1] At least one course must be from Part A and one course from Part B (each course must be a minimum of 3 units).

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6 Units)		
A1 - Oral Communication		3
A2 - Written Communication [2]		0
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		36

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BS in Biological Science (General Biology)

Units required for Major: 73-85, includes units of study in chosen concentration (see below).
Total units required for BS: 120

Program Description

The general biology concentration is intended to give students a broad training in the Biological Sciences and an opportunity to explore a wide range of elective courses. It also provides necessary preparation for most graduate programs and selected entry level technical positions in industry and government. The BS in Biological Sciences meets requirements leading to the Biology Subject Matter Competency Teaching Credential (with three supplemental geoscience and environmental studies courses) and also satisfies requirements for admission to health professional schools (with additional coursework in Math and Chemistry).

Pre-Major Requirements

The Biological Sciences program at Sacramento State is one of the most highly sought after programs in Northern California. Due to the large number of applications, the program is now officially impacted. Students wishing to become Biological Science majors must complete a series of required lower division and then must apply for admission to the program. Check the department website for requirements, and it is highly recommended that interested students speak with an advisor at the Natural Sciences Advising Center (NSAC) as soon as possible.

Freshmen interested in the major are admitted as pre-Biological Science majors.

To change to the Biological Sciences major, pre-major students are required to complete the following courses and grade requirements and submit a Declaration of Major form to the Biological Science Department Office along with transcript copies.

1. Completion of the following lower division 'pre-major' courses with a minimum 'C' or better. Only first or second attempt will be considered:

Code	Title	Units
BIO 1	Biodiversity, Evolution and Ecology	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I	5
STAT 1	Introduction to Statistics	3
ENGL 5	Accelerated Academic Literacies [1]	3

1. Overall GPA of 2.5 based on the pre-major courses listed above.
2. Minimum of 30 units completed at the college level.

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (37-41 Units)		
BIO 1	Biodiversity, Evolution and Ecology [1]	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I [1]	5
CHEM 1B	General Chemistry II	5
Select one of the following:		3 - 6
CHEM 20	Organic Chemistry Lecture--Brief Course [2]	
CHEM 24 & CHEM 124	Organic Chemistry Lecture I Organic Chemistry Lecture II	
Select one of the following:		3 - 4
MATH 26A	Calculus I for the Social and Life Sciences	
MATH 30	Calculus I	
PHYS 5A	General Physics: Mechanics, Heat, Sound	4
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics	4
STAT 1	Introduction to Statistics [1]	3
Required Upper Division Core Courses (7 Units)		
BIO 100	Introduction to Scientific Analysis	3
BIO 184	General Genetics	4
Concentration (29-37 Units)		
Select from the following concentrations:		29 - 37

General Biology	
Biomedical Sciences	
Cell and Molecular Biology	
Clinical Laboratory Sciences	
Ecology, Evolution, and Conservation	
Forensic Biology	
Microbiology	
Total Units	73-85

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] CHEM 24 and CHEM 124 may be taken in lieu of CHEM 20. (CHEM 124 is not counted toward the 36 upper division unit requirement in the major except in the Biomedical Sciences Concentration.)

Notes:

- Pre-Health Professional students should take the Chemistry and Math requirements as stated in the Pre-Health Professional Program section of this catalog.
- With approval, up to six units of upper division coursework from related fields may be applied as electives in the major.
- No more than 3 units from the following combined can be applied to the Biological Sciences upper division major requirement. No more than 2 units of BIO 195 and 197 series courses can count toward the upper division major requirement.

Code	Title	Units
BIO 195	Biological Internship	1 - 2
BIO 197A	Laboratory Teaching Assistant	1 - 2
BIO 197B	Laboratory Techniques	1 - 2
BIO 197C	Co-curricular Activities in Biology	1 - 2
BIO 199A	Introductory Undergraduate Research	1 - 2
BIO 199B	Directed Readings	1 - 2

Concentration in General Biology (29 units)

Code	Title	Units
Required Courses (16 Units)		
BIO 121	Molecular Cell Biology	3
BIO 139	General Microbiology	4
BIO 160	General Ecology	3
BIO 188	Evolution	3
CHEM 161	General Biochemistry [1]	3
Elective Courses (13 Units)		
Select one of the following Structure and Function electives:		3
BIO 104	Physiology of Human Reproduction	
BIO 122	Advanced Human Anatomy	
BIO 123	Neuroanatomy	
BIO 126	Comparative Vertebrate Morphology	
BIO 127	Developmental Biology	
BIO 128	Plant Anatomy and Physiology	
BIO 130	Histology	
BIO 131	Systemic Physiology	
BIO 132	Neurophysiology	
BIO 133	Cardiovascular, Respiratory and Renal Physiology	
Select additional upper division elective courses in consultation with an advisor to total 13 total upper division elective units.		10
Total Units		29

[1] CHEM 160A and CHEM 160B may be taken in lieu of CHEM 161. Only three units of the package may be counted toward the upper division requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6 Units)		
A1 - Oral Communication		3
A2 - Written Communication [2]		0
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		36

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BS in Biological Science (Microbiology)

Units required for Major: 73-85, includes units of study in chosen concentration (see below).
Total units required for BS: 120

Program Description

The concentration in Microbiology is designed to prepare students for entry level technical positions in the industry and graduate programs in Microbiology leading to careers in research and teaching. This curriculum meets the educational requirements for various entry level career positions for biotechnology, environmental, pharmaceutical, wastewater treatment, and agricultural areas of microbiology. Concentration includes a minor in Chemistry.

Pre-Major Requirements

The Biological Sciences program at Sacramento State is one of the most highly sought after programs in Northern California. Due to the large number of applications, the program is now officially impacted. Students wishing to become Biological Science majors must complete a series of required lower division and then must apply for admission to the program. Check the department website for requirements, and it is highly recommended that interested students speak with an advisor at the Natural Sciences Advising Center (NSAC) as soon as possible.

Freshmen interested in the major are admitted as pre-Biological Science majors.

To change to the Biological Sciences major, pre-major students are required to complete the following courses and grade requirements and submit a Declaration of Major form to the Biological Science Department Office along with transcript copies.

1. Completion of the following lower division 'pre-major' courses with a minimum 'C' or better. Only first or second attempt will be considered:

Code	Title	Units
BIO 1	Biodiversity, Evolution and Ecology	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I	5
STAT 1	Introduction to Statistics	3
ENGL 5	Accelerated Academic Literacies [1]	3

1. Overall GPA of 2.5 based on the pre-major courses listed above.
2. Minimum of 30 units completed at the college level.

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (37-41 Units)		
BIO 1	Biodiversity, Evolution and Ecology [1]	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I [1]	5
CHEM 1B	General Chemistry II	5
Select one of the following:		3 - 6
CHEM 20	Organic Chemistry Lecture--Brief Course [2]	
CHEM 24 & CHEM 124	Organic Chemistry Lecture I Organic Chemistry Lecture II	
Select one of the following:		3 - 4
MATH 26A	Calculus I for the Social and Life Sciences	
MATH 30	Calculus I	
PHYS 5A	General Physics: Mechanics, Heat, Sound	4
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics	4
STAT 1	Introduction to Statistics [1]	3
Required Upper Division Core Courses (7 Units)		
BIO 100	Introduction to Scientific Analysis	3
BIO 184	General Genetics	4
Concentration (29-37 Units)		
Select from the following concentrations:		29 - 37
General Biology		
Biomedical Sciences		
Cell and Molecular Biology		
Clinical Laboratory Sciences		
Ecology, Evolution, and Conservation		
Forensic Biology		
Microbiology		
Total Units		73-85

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] CHEM 24 and CHEM 124 may be taken in lieu of CHEM 20. (CHEM 124 is not counted toward the 36 upper division unit requirement in the major except in the Biomedical Sciences Concentration.)

Notes:

- Pre-Health Professional students should take the Chemistry and Math requirements as stated in the Pre-Health Professional Program section of this catalog.
- With approval, up to six units of upper division coursework from related fields may be applied as electives in the major.
- No more than 3 units from the following combined can be applied to the Biological Sciences upper division major requirement. No more than 2 units of BIO 195 and 197 series courses can count toward the major requirement.

Code	Title	Units
BIO 195	Biological Internship	1 - 2
BIO 197A	Laboratory Teaching Assistant	1 - 2
BIO 197B	Laboratory Techniques	1 - 2
BIO 197C	Co-curricular Activities in Biology	1 - 2
BIO 199A	Introductory Undergraduate Research	1 - 2
BIO 199B	Directed Readings	1 - 2

Concentration in Microbiology (34-36 units)

Code	Title	Units
Required Courses (29-31 Units)		
BIO 121	Molecular Cell Biology	3
BIO 139	General Microbiology	4
BIO 143	General Virology	3
BIO 145	The Diversity of Microorganisms	4
BIO 180	Advanced Molecular Biology	4
CHEM 20L	Introductory Organic Chemistry Laboratory	1 - 3
or CHEM 25	Organic Chemistry Laboratory	
CHEM 31	Quantitative Analysis	4
CHEM 161	General Biochemistry [1]	3
CHEM 162	General Biochemistry Laboratory [2]	3
Elective Courses (5 Units)		
Select 5 units from the following Cell and Molecular Biology electives or Clinical Laboratory Science and Infectious Disease electives: [3]		5
Cell and Molecular Biology Electives		
BIO 149A	Immunology	
BIO 150	Forensic Biology	
BIO 151	Advanced Laboratory Techniques in Forensic Biology	
BIO/FACS 170	Advanced Nutrition and Metabolism	
BIO 178	Molecular Ecology	
BIO 183	Cancer Biology	
BIO 185	Topics in Biology	
BIO 186A	Cell and Molecular Biology Seminar	
BIO 187	Advanced Cell Biology	
Clinical Laboratory Science and Infectious Disease Electives		
BIO 134	Medical Mycology	
BIO 140	Medical Microbiology and Emerging Infectious Diseases [4]	
BIO 144	Pathogenic Bacteriology [4]	
BIO 149B	Immunology and Serology Laboratory	
BIO 152	Human Parasitology	
HLSC 148	[5]	
Total Units		34-36

[1] CHEM 160A and CHEM 160B may be taken in lieu of CHEM 161. Only three units of the package may be counted toward the upper division requirement.

[2] CHEM 162 can be included in the 36 upper division unit requirement for this concentration.

[3] Electives chosen in consultation with an advisor. BIO 124 and BIO 125 cannot be taken to fulfill the elective requirements for the Microbiology Concentration.

[4] Students may not receive credit for both BIO 140 and BIO 144. Cannot be counted for credit in the Clinical Laboratory Sciences concentration.

[5] Required for Public Health Microbiology Traineeship.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6 Units)		
A1 - Oral Communication		3
A2 - Written Communication [2]		0
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		

Area E Course	3
Total Units	36

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Certificate in Issues in Natural Resource Management

Units required for Certificate: 15, in addition to requirements for BS

Program Description

The Academic Achievement Certificate in *Issues in Natural Resource Management* is designed to provide an interdisciplinary perspective on the conflicts, controversies, and biopolitical issues that natural resource biologists must deal with in their careers, and to introduce students to the non-biological considerations that influence decision making processes in natural resource utilization and management.

A minimum of 15 units selected from the following list in addition to requirements for the BS in Biological Sciences with a concentration in Biological Conservation. The certificate may also be awarded to students completing the BS in General Biology with the approval of the Biological Conservation advisors.

Program Requirements

Code	Title	Units
Select a minimum of 15 units from the following:		15
ECON 120	Economics and Environmental Degradation	
ECON 123	Resource Economics	
ENVS 110	Contemporary Environmental Issues	
ENVS 112	International Environmental Problems	
ENVS/GOVT 128	Environment and the Law	
GEOG 161	California's Water Resources	
GEOL 140	Geology and the Environment	
GOVT 170		
Total Units		15

Cooperative Education Program (Work Experience)

Program Description

Biology majors can participate in the University's Cooperative Education Program. This program provides biology-related, paid, off-campus work experience in government agencies or private industry. The experience can enhance the student's employment prospects upon graduation. Participants in this program will complete at least one six-month period. During the work period, the participant generally will not attend classes on the Sacramento State campus but will enroll in BIO 194, Biology-Related Work Experience. (BIO 194 units do not replace the curricular requirements of the Biological Sciences degree programs.)

Students interested in this program should contact the Biological Sciences Department or the campus Cooperative Education Program Office for further information.

MA in Biological Science (General)

Units required for MA: 30 includes units required in areas of concentration.

Program Description

The graduate programs in Biological Sciences lead to either a Master of Arts (MA) or a Master of Science (MS) degree and provides an opportunity for students to receive advanced training and to pursue independent investigations in particular fields of biology. It allows students to upgrade their qualifications for educational advancement to doctoral programs or for professional advancement in teaching, laboratory work, or fieldwork. The MA degree requires the completion of a project which is a Grant Proposal, unless the student is in the Stem Cell Concentration which requires an Internship Project Report. The MS degree requires completion of a thesis which has concentrations in Ecology, Evolution and Conservation and in Molecular and Cellular Biology so as to provide advanced training and research experience in these fields.

All students are required to complete a project or thesis involving field, laboratory, or literature research. The project or thesis research may be conducted on campus with a biology faculty member or at an off-campus location. In either case, the student's research must make a new contribution to the field of biology. If the research is conducted off

campus, a biology faculty member must be identified as the student's graduate advisor. Following admission to the program, students are advised by a temporary graduate advisor or by the faculty member who has agreed to supervise the student in their project/thesis research. Students should plan their academic programs in consultation with a graduate advisor as early as possible, preferably prior to enrollment in the program.

For additional information regarding the Biological Sciences Graduate Program, students may contact the Biological Sciences Department Office, Biological Sciences website (http://www.csus.edu/bios/), or consult the Biological Sciences Graduate Program Handbook, available through the Department's Web site.

Admission Requirements

Admission as a classified graduate student to the MA or MS program in Biological Sciences requires:

- a baccalaureate degree;
- completion of a major in biological sciences or closely related field; or completion of 24 units of upper division biological sciences courses or courses in closely related fields, each of which must be passed with a 'C-' or better;
- a minimum GPA of 2.75 in all biology courses and a minimum GPA of 3.0 in upper division biology courses;
- a faculty member who has agreed to serve as their graduate advisor (Note: For your application to be considered for admission, you must correspond with a faculty member in the department with whom you would like to work prior to the application deadline. We suggest you do this well in advance of the application deadline. You will be asked to enter the name(s) of the faculty member(s) with whom you have been in correspondence on the Department Application. This requirement does not apply to applicants to the MA Stem Cell Concentration).
- two letters of recommendation from persons qualified to judge the applicant's potential for successful graduate study; and
- a statement of purpose.

It is important to note that meeting all admission requirements does not guarantee acceptance into the graduate program. Students who have deficiencies in admission requirements that can be removed by specified additional preparation, or who have not been accepted by a graduate advisor, may be admitted with conditionally classified graduate status. Admission as a conditionally classified graduate student does not guarantee fully classified status. Fully classified graduate status is conferred when all deficiencies identified at the time of admission are removed and a biology faculty member has agreed to serve as their thesis advisor. Any deficiencies in admissions requirements will be noted on a written response to the admission application.

Admission Procedures

Applicants must complete a university application by the posted application deadline date for the term applying. :

- an online application for admission; and
- two sets of **official** transcripts from **all** colleges and universities attended, *other than Sacramento State*.

For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/

In addition, all prospective graduate students must submit the following application materials directly to the Department of Biological Sciences:

- an online departmental application for admission;
- one set of **unofficial** transcripts from **all** colleges and universities attended, *other than Sacramento State*;
- two letters of recommendation; and
- a statement of purpose.

Departmental applications for admission are due February 1. There is currently **no general call for admission for students to begin in the spring semester**. However a student may **petition** the department to begin the **spring**. Please contact your potential graduate advisor (i.e., a faculty member in your area of interest) to discuss this option. Approximately eight to ten weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

No units from the following are acceptable toward the master's degree:

Code	Title	Units
BIO 106	Genetics: From Mendel to Molecules	3
BIO 194	Biology-Related Work Experience	6 - 12
BIO 195	Biological Internship	1 - 2
BIO 197A	Laboratory Teaching Assistant	1 - 2
BIO 197B	Laboratory Techniques	1 - 2
BIO 197C	Co-curricular Activities in Biology	1 - 2
BIO 198A	Honors Proseminar and Research	2
BIO 198B	Honors Research and Seminar	2
BIO 199A	Introductory Undergraduate Research	1 - 2
BIO 199B	Directed Readings	1 - 2

Minimum Units and Grade Requirement for the Degree

Units required for MA: 30 (includes units required in areas of concentration).
Minimum Cumulative GPA: 3.0

Advancement to Candidacy

The Advancement to Candidacy process serves to ensure that a student is qualified for and making good progress toward successfully completing the Master's degree. Each classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one course at the 200-level;
- begun a preliminary study for the thesis or project; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

An Application for Advancement to Candidacy forms are available on the Office of Graduate Studies Web site and the Department of Biological Sciences Web site. The student fills out the form after planning a degree program in consultation with his/her Biological Sciences graduate advisor. After approval by the Biological Sciences Graduate Committee and the student's thesis committee, the completed form is returned to the Office of Graduate Studies for approval.

All requirements for the Master of Arts degree must be completed within seven (7) years starting from the time the first course is used to meet the master's degree requirements.

Program Requirements [1]

No Concentration (30-32 units)

Code	Title	Units
Required Core Courses (8-9 Units)		
BIO 220	Introduction to Scientific Inquiry	2
BIO 294A	Seminar in Molecular and Cellular Biology [2]	1
or BIO 294B	Seminar in Ecology, Evolution and Conservation	
BIO 299	Problems in Biological Sciences	1 - 4
Select one of the following:		2 - 3
BIO 221A	Cell and Molecular Methods and Techniques	
BIO 221B	Methods in Ecology, Evolution and Conservation	
BIO 221C	Exploration of Biological Methodology	
Culminating Requirement (2 Units)		
BIO 502	Master's Project	2
Additional Requirements (20-21 Units)		
Select 20-21 units of electives [1]		20 - 21
Total Units		30-32

[1] Approved electives in Biological Sciences or supporting fields. Electives must be selected in consultation with the graduate advisor and approved at the Advancement to Candidacy meeting. Up to six units of upper division (100-level) coursework taken as a graduate student in the program may be applied to the MA degree. Up to an additional 2 units of BIO 299 may be applied to meet coursework requirements.

[2] Students must take BIO 294 two times to fulfill degree requirements.

MA in Biological Science (Stem Cell)

Units required for MA: 30 includes units required in areas of concentration.

Program Description

The graduate programs in Biological Sciences lead to either a Master of Arts (MA) or a Master of Science (MS) degree and provides an opportunity for students to receive advanced training and to pursue independent investigations in particular fields of biology. It allows students to upgrade their qualifications for educational advancement to doctoral programs or for professional advancement in teaching, laboratory work, or fieldwork. The MA degree requires the completion of a project which is a Grant Proposal, unless the student is in the Stem Cell Concentration which requires an Internship Project Report. The MS degree requires completion of a thesis which has concentrations in Ecology, Evolution and Conservation and in Molecular and Cellular Biology so as to provide advanced training and research experience in these fields.

All students are required to complete a project or thesis involving field, laboratory, or literature research. The project or thesis research may be conducted on campus with a biology faculty member or at an off-campus location. In either case, the student's research must make a new contribution to the field of biology. If the research is conducted off campus, a biology faculty member must be identified as the student's graduate advisor. Following admission to the program, students are advised by a temporary graduate advisor or by the faculty member who has agreed to supervise the student in their project/thesis research. Students should plan their academic programs in consultation with a graduate advisor as early as possible, preferably prior to enrollment in the program.

For additional information regarding the Biological Sciences Graduate Program, students may contact the Biological Sciences Department Office, Biological Sciences website (http://www.csus.edu/bios/), or consult the Biological Sciences Graduate Program Handbook, available through the Department's Web site.

Admission Requirements

Admission as a classified graduate student to the MA or MS program in Biological Sciences requires:

- a baccalaureate degree;
- completion of a major in biological sciences or closely related field; or completion of 24 units of upper division biological sciences courses or courses in closely related fields, each of which must be passed with a 'C-' or better;
- a minimum GPA of 2.75 in all biology courses and a minimum GPA of 3.0 in upper division biology courses;
- GRE General Test scores *(note: the GRE is not required for the Stem Cell Program)*;
- a faculty member who has agreed to serve as their graduate advisor;
- two letters of recommendation from persons qualified to judge the applicant's potential for successful graduate study; and
- a statement of purpose.

It is important to note that meeting all admission requirements does not guarantee acceptance into the graduate program. Students who have deficiencies in admission requirements that can be removed by specified additional preparation, or who have not been accepted by a graduate advisor, may be admitted with conditionally classified graduate status. Admission as a conditionally classified graduate student does not guarantee fully classified status. Fully classified graduate status is conferred when all deficiencies identified at the time of admission are removed and a biology faculty member has agreed to serve as their thesis advisor. Any deficiencies in admissions requirements will be noted on a written response to the admission application.

Admission Procedures

Applicants must complete a university application by the posted application deadline date for the term applying. :

- an online application for admission; and
- two sets of **official** transcripts from **all** colleges and universities attended, *other than Sacramento State*.

For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/

In addition, all prospective graduate students must submit the following application materials directly to the Department of Biological Sciences:

- an online departmental application for admission;
- one set of **unofficial** transcripts from **all** colleges and universities attended, *other than Sacramento State*;
- GRE General Test scores (**NOTE:** GRE General Test scores will be accepted after the application deadline but only if the test **was taken prior to the deadline; GRE scores are not needed for the MA Stem Cell Program**);
- two letters of recommendation; and
- a statement of purpose.

Departmental applications for admission are due February 1. There is currently **no general call for admission for students to begin in the spring semester**. However a student may **petition** the department to begin the **spring**. Please contact your potential graduate advisor (i.e., a faculty member in your area of interest) to discuss this option. Approximately eight to ten weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

No units from the following are acceptable toward the master's degree:

Code	Title	Units
BIO 106	Genetics: From Mendel to Molecules	3
BIO 194	Biology-Related Work Experience	6 - 12
BIO 195	Biological Internship	1 - 2
BIO 197A	Laboratory Teaching Assistant	1 - 2
BIO 197B	Laboratory Techniques	1 - 2
BIO 197C	Co-curricular Activities in Biology	1 - 2
BIO 198A	Honors Proseminar and Research	2
BIO 198B	Honors Research and Seminar	2
BIO 199A	Introductory Undergraduate Research	1 - 2
BIO 199B	Directed Readings	1 - 2

Minimum Units and Grade Requirement for the Degree

Units required for MA: 30 (includes units required in areas of concentration).
Minimum Cumulative GPA: 3.0

Advancement to Candidacy

The Advancement to Candidacy process serves to ensure that a student is qualified for and making good progress toward successfully completing the Master's degree. Each classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one course at the 200-level;
- begun a preliminary study for the thesis or project; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

An Application for Advancement to Candidacy forms are available on the Office of Graduate Studies Web site and the Department of Biological Sciences Web site. The student fills out the form after planning a degree program in consultation with his/her Biological Sciences graduate advisor. After approval by the Biological Sciences Graduate Committee and the student's thesis committee, the completed form is returned to the Office of Graduate Studies for approval.

All requirements for the Master of Arts degree must be completed within seven (7) years starting from the time the first course is used to meet the master's degree requirements.

Program Requirements [1]

Concentration in Stem Cell (30 units)

Code	Title	Units
Required Core Courses (25 Units)		
BIO 220	Introduction to Scientific Inquiry	2
BIO 221A	Cell and Molecular Methods and Techniques	2
BIO 222	Molecular Biology	3
BIO 224	Genomics, Proteomics, and Bioinformatics	3
BIO 225	Stem Cell Biology and Manufacturing Practices	1
BIO 227	Development and Regenerative Medicine	3
BIO 293	Research Conference	2
BIO 294A	Seminar in Molecular and Cellular Biology	1
BIO 299	Problems in Biological Sciences (course taken twice for a total of 8 units)	1 - 4
Culminating Requirement (2 Units)		
BIO 502	Master's Project [2]	2
Additional Requirements (3 Units)		
Select one of the following:		3
BIO 223	Human Molecular Genetics	
BIO 245	Host/Pathogen Interactions	
BIO 247	Contemporary Topics in Immunology	
BIO 282	Evolution	
CHEM 230	Separation Methods in Chemistry	
CHEM 145/245	Applications of Computational Chemistry	
CHEM 260	Protein Biochemistry	
CHEM 261	Nucleic Acid Chemistry	
Total Units		30

[1] The 30 units must include a minimum of 18 units of 200-level courses.

[2] No more than 2 units of BIO 502 may be applied toward the 30 unit requirement.
Each student who receives a Master of Arts degree from the Department of Biological Sciences must submit a written project based on a research problem in biology under the supervision of a graduate advisor. A project can be based on either of the following:
- Grant Proposal: a research proposal in the format required by a state or federal granting agency (e.g., National Science Foundation, National Institutes of Health) based on a novel hypothesis that addresses a biological problem; **OR**
- Internship Project Report: a project report on the student's internship experience.

Minor in Biological Science

Units required for Minor: 20

Program Description

The minor in Biological Sciences is designed to provide students in other majors with the opportunity to broaden their exposure to and understanding of the biological sciences. The minor complements several majors that require coursework in biological sciences, including Chemistry, Nursing, Environmental Studies, Health Science, Kinesiology, and Family and Consumer Sciences.

The minor requires 20 units. The 20 units must include a minimum of 10 upper division units at least one of the upper division courses must have a laboratory component. Three units of biochemistry may be counted toward the minor. Six upper division units must be earned in residence.

Program Requirements

No more than two units of the following may be counted toward the minor:

Code	Title	Units
BIO 186A	Cell and Molecular Biology Seminar	1
BIO/ENVS 186B	Ecological and Environmental Issues Seminar	1
BIO 194	Biology-Related Work Experience	6 - 12
BIO 195	Biological Internship	1 - 2
BIO 197A	Laboratory Teaching Assistant	1 - 2
BIO 197B	Laboratory Techniques	1 - 2
BIO 197C	Co-curricular Activities in Biology	1 - 2
BIO 199A	Introductory Undergraduate Research	1 - 2
BIO 199B	Directed Readings	1 - 2

Note: All prerequisites for all courses will be enforced.

MS in Biological Science (Ecology, Evolution, and Conservation)

Total units required for MS: 30 includes units required in areas of concentration.

Program Description

The graduate programs in Biological Sciences lead to either a Master of Arts (MA) or a Master of Science (MS) degree and provides an opportunity for students to receive advanced training and to pursue independent investigations in particular fields of biology. It allows students to upgrade their qualifications for educational advancement to doctoral programs or for professional advancement in teaching, laboratory work, or fieldwork. The MA degree requires the completion of a project which is a Grant Proposal, unless the student is in the Stem Cell Concentration which requires an Internship Project Report. The MS degree requires completion of a thesis which has concentrations in Ecology, Evolution and Conservation and in Molecular and Cellular Biology so as to provide advanced training and research experience in these fields.

All students are required to complete a project or thesis involving field, laboratory, or literature research. The project or thesis research may be conducted on campus with a biology faculty member or at an off-campus location. In either case, the student's research must make a new contribution to the field of biology. If the research is conducted off campus, a biology faculty member must be identified as the student's graduate advisor. Following admission to the program, students are advised by a temporary graduate advisor or by the faculty member who has agreed to supervise the student in their project/thesis research. Students should plan their academic programs in consultation with a graduate advisor as early as possible, preferably prior to enrollment in the program.

For additional information regarding the Biological Sciences Graduate Program, students may contact the Biological Sciences Department Office, Biological Sciences website (http://www.csus.edu/bios/), or consult the Biological Sciences Graduate Program Handbook, available through the Department's Web site.

Admission Requirements

Admission as a classified graduate student to the MA or MS program in Biological Sciences requires:

- a baccalaureate degree;
- completion of a major in biological sciences or closely related field; or completion of 24 units of upper division biological sciences courses or courses in closely related fields, each of which must be passed with a 'C-' or better;
- a minimum GPA of 2.75 in all biology courses and a minimum GPA of 3.0 in upper division biology courses;
- a faculty member who has agreed to serve as their graduate advisor (Note: For your application to be considered for admission, you mustcorrespond with a faculty member in the department with whom you would like to work prior to the application deadline. We suggest you dothis well in advance of the application deadline. You will be asked to enter the name(s) of the faculty member(s) with whom you have been incorrespondence on the Department Application. This requirement does not apply to applicants to the MA Stem Cell Concentration);

- two letters of recommendation from persons qualified to judge the applicant's potential for successful graduate study; and
- a statement of purpose.

It is important to note that meeting all admission requirements does not guarantee acceptance into the graduate program. Students who have deficiencies in admission requirements that can be removed by specified additional preparation, or who have not been accepted by a graduate advisor, may be admitted with conditionally classified graduate status. Admission as a conditionally classified graduate student does not guarantee fully classified status. Fully classified graduate status is conferred when all deficiencies identified at the time of admission are removed and a biology faculty member has agreed to serve as their thesis advisor. Any deficiencies in admissions requirements will be noted on a written response to the admission application.

Admission Procedures

Applicants must complete a university application by the posted application deadline date for the term applying. :

- an online application for admission; and
- two sets of **official** transcripts from **all** colleges and universities attended, *other than Sacramento State*.

For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/.

In addition, all prospective graduate students must submit the following application materials directly to the Department of Biological Sciences:

- an online departmental application for admission;
- one set of **unofficial** transcripts from **all** colleges and universities attended, *other than Sacramento State*;
- two letters of recommendation; and
- a statement of purpose.

Departmental applications for admission are due February 1. There is currently **no general call for admission for students to begin in the spring semester**. However a student may **petition** the department to begin the **spring**. Please contact your potential graduate advisor (i.e., a faculty member in your area of interest) to discuss this option. Approximately eight to ten weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

No units from the following are acceptable toward the master's degree:

Code	Title	Units
BIO 106	Genetics: From Mendel to Molecules	3
BIO 194	Biology-Related Work Experience	6 - 12
BIO 195	Biological Internship	1 - 2
BIO 197A	Laboratory Teaching Assistant	1 - 2
BIO 197B	Laboratory Techniques	1 - 2
BIO 197C	Co-curricular Activities in Biology	1 - 2
BIO 198A	Honors Proseminar and Research	2
BIO 198B	Honors Research and Seminar	2
BIO 199A	Introductory Undergraduate Research	1 - 2
BIO 199B	Directed Readings	1 - 2

Minimum Units and Grade Requirements for the Degree

Units required for the MS: 30 includes units required in areas of concentration
Minimum Cumulative GPA: 3.0

Advancement to Candidacy

The Advancement to Candidacy process serves to ensure that a student is qualified for and making good progress toward successfully completing the Master's degree. Each classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one course at the 200-level;
- begun a preliminary study for the thesis or project; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

An Application for Advancement to Candidacy forms are available on the Office of Graduate Studies website and the Department of Biological Sciences Web site. The student fills out the form after planning a degree program in consultation with his/her Biological Sciences graduate advisor. After approval by the Biological Sciences Graduate Committee and the student's thesis committee, the completed form is returned to the Office of Graduate Studies for approval.

Note:

Supporting Fields: A maximum of 10 units from an approved supporting field (e.g., Chemistry, Physics, Environmental Studies, Geology, Physics) may be counted toward the degree, with graduate advisor and graduate committee approval obtained **before** taking the course(s).

No more than 10 units of BIO 299 and BIO 500 may be applied toward the 30 unit requirement.

Each student who receives a Master's of Science degree from the Department of Biological Sciences must submit a thesis based on original research in biology. A thesis can be based on either of the following sources of data:

- data generated by the student's original research in which the student performs the fieldwork or laboratory experiments and/or
- data obtained from sources other than the student's own fieldwork or laboratory experiments, provided the data are analyzed in an original way.

The use of data must result in an original contribution to the problem being investigated.

All requirements for the Master's degree must be completed within seven (7) years starting from the time the first course is used to meet the master's degree requirements.

Program Requirements [1]

Code	Title	Units
Required Core Courses (10 Units)		
BIO 220	Introduction to Scientific Inquiry	2
BIO 294A	Seminar in Molecular and Cellular Biology [2]	1
or BIO 294B	Seminar in Ecology, Evolution and Conservation	
BIO 299	Problems in Biological Sciences [3]	1 - 4
Culminating Requirement (4 Units)		
BIO 500	Master's Thesis	4
Additional Requirements for Concentrations (16 Units)		
Select a concentration from the following:		16
No Concentration		
Ecology, Evolution and Conservation		
Molecular and Cellular Biology		
Total Units		30

1. The 30 units must include a minimum of 18 units of 200-level seminar courses.
2. Students must take BIO 294 two times to fulfill degree requirements.
3. Students must complete 6 units of BIO 299 to fulfill degree requirements.

Concentration in Ecology, Evolution, and Conservation (16 units)

Code	Title	Units
BIO 221B	Methods in Ecology, Evolution and Conservation	2
BIO 282	Evolution	3
Select 11 approved electives [1]		11
Total Units		16

1. Approved electives in Biological Sciences or supporting fields. Electives must be selected in consultation with the graduate advisor and approved at the Advancement to Candidacy meeting. Up to two additional units of BIO 294B (up to 4 total) taken as a graduate student in the program may be applied to the MS degree.

MS in Biological Science (General)

Total units required for MS: 30 includes units required in areas of concentration.

Program Description

The graduate programs in Biological Sciences lead to either a Master of Arts (MA) or a Master of Science (MS) degree and provides an opportunity for students to receive advanced training and to pursue independent investigations in particular fields of biology. It allows students to upgrade their qualifications for educational advancement to doctoral programs or for professional advancement in teaching, laboratory work, or fieldwork. The MA degree requires the completion of a project which is a Grant Proposal, unless the student is in the Stem Cell Concentration which requires an Internship Project Report. The MS degree requires completion of a thesis which has concentrations in Ecology, Evolution and Conservation and in Molecular and Cellular Biology so as to provide advanced training and research experience in these fields.

All students are required to complete a project or thesis involving field, laboratory, or literature research. The project or thesis research may be conducted on campus with a biology faculty member or at an off-campus location. In either case, the student's research must make a new contribution to the field of biology. If the research is conducted off campus, a biology faculty member must be identified as the student's graduate advisor. Following admission to the program, students are advised by a temporary graduate advisor or by the faculty member who has agreed to supervise the student in their project/thesis research. Students should plan their academic programs in consultation with a graduate advisor as early as possible, preferably prior to enrollment in the program.

For additional information regarding the Biological Sciences Graduate Program, students may contact the Biological Sciences Department Office, Biological Sciences website (http://www.csus.edu/bios/), or consult the Biological Sciences Graduate Program Handbook, available through the Department's Web site.

Admission Requirements

Admission as a classified graduate student to the MA or MS program in Biological Sciences requires:

- a baccalaureate degree;
- completion of a major in biological sciences or closely related field; or completion of 24 units of upper division biological sciences courses or courses in closely related fields, each of which must be passed with a 'C-' or better;
- a minimum GPA of 2.75 in all biology courses and a minimum GPA of 3.0 in upper division biology courses;
- a faculty member who has agreed to serve as their graduate advisor (Note: For your application to be considered for admission, you mustcorrespond with a faculty member in the department with whom you would like to work prior to the application deadline. We suggest you dothis well in advance of the application deadline. You will be asked to enter the name(s) of the faculty member(s) with whom you have been incorrespondence on the Department Application. This requirement does not apply to applicants to the MA Stem Cell Concentration);
- two letters of recommendation from persons qualified to judge the applicant's potential for successful graduate study; and
- a statement of purpose.

It is important to note that meeting all admission requirements does not guarantee acceptance into the graduate program. Students who have deficiencies in admission requirements that can be removed by specified additional preparation, or who have not been accepted by a graduate advisor, may be admitted with conditionally classified graduate status. Admission as a conditionally classified graduate student does not guarantee fully classified status. Fully classified graduate status is conferred when all deficiencies identified at the time of admission are removed and a biology faculty member has agreed to serve as their thesis advisor. Any deficiencies in admissions requirements will be noted on a written response to the admission application.

Admission Procedures

Applicants must complete a university application by the posted application deadline date for the term applying. :

- an online application for admission; and
- two sets of **official** transcripts from **all** colleges and universities attended, *other than Sacramento State*.

For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/.

In addition, all prospective graduate students must submit the following application materials directly to the Department of Biological Sciences:

- an online departmental application for admission;
- one set of **unofficial** transcripts from **all** colleges and universities attended, *other than Sacramento State*;
- two letters of recommendation; and
- a statement of purpose.

Departmental applications for admission are due February 1. There is currently **no general call for admission for students to begin in the spring semester**. However a student may **petition** the department to begin the **spring**. Please contact your potential graduate advisor (i.e., a faculty member in your area of interest) to discuss this option. Approximately eight to ten weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

No units from the following are acceptable toward the master's degree:

Code	Title	Units
BIO 106	Genetics: From Mendel to Molecules	3
BIO 194	Biology-Related Work Experience	6 - 12
BIO 195	Biological Internship	1 - 2
BIO 197A	Laboratory Teaching Assistant	1 - 2
BIO 197B	Laboratory Techniques	1 - 2
BIO 197C	Co-curricular Activities in Biology	1 - 2
BIO 198A	Honors Proseminar and Research	2
BIO 198B	Honors Research and Seminar	2
BIO 199A	Introductory Undergraduate Research	1 - 2
BIO 199B	Directed Readings	1 - 2

Minimum Units and Grade Requirements for the Degree

Units required for the MS: 30 includes units required in areas of concentration
Minimum Cumulative GPA: 3.0

Advancement to Candidacy

The Advancement to Candidacy process serves to ensure that a student is qualified for and making good progress toward successfully completing the Master's degree. Each classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one course at the 200-level;
- begun a preliminary study for the thesis or project; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

An Application for Advancement to Candidacy forms are available on the Office of Graduate Studies website and the Department of Biological Sciences Web site. The student fills out the form after planning a degree program in consultation with his/her Biological Sciences graduate advisor. After approval by the Biological Sciences Graduate Committee and the student's thesis committee, the completed form is returned to the Office of Graduate Studies for approval.

Note:

Supporting Fields: A maximum of 10 units from an approved supporting field (e.g., Chemistry, Physics, Environmental Studies, Geology, Physics) may be counted toward the degree, with graduate advisor and graduate committee approval obtained **before** taking the course(s).

No more than 10 units of BIO 299 and BIO 500 may be applied toward the 30 unit requirement.

Each student who receives a Master's of Science degree from the Department of Biological Sciences must submit a thesis based on original research in biology. A thesis can be based on either of the following sources of data:

- data generated by the student's original research in which the student performs the fieldwork or laboratory experiments and/or
- data obtained from sources other than the student's own fieldwork or laboratory experiments, provided the data are analyzed in an original way.

The use of data must result in an original contribution to the problem being investigated.

All requirements for the Master's degree must be completed within seven (7) years starting from the time the first course is used to meet the master's degree requirements.

Program Requirements [1]

Code	Title	Units
Required Core Courses (10 Units)		
BIO 220	Introduction to Scientific Inquiry	2
BIO 294A	Seminar in Molecular and Cellular Biology [2]	1
or BIO 294B	Seminar in Ecology, Evolution and Conservation	
BIO 299	Problems in Biological Sciences [3]	1 - 4
Culminating Requirement (4 Units)		
BIO 500	Master's Thesis	4
Additional Requirements for Concentrations (16 Units)		
Select a concentration from the following:		16
No Concentration		
Ecology, Evolution and Conservation		

Molecular and Cellular Biology	
Total Units	30

[1] The 30 units must include a minimum of 18 units of 200-level seminar courses.

[2] Students must take BIO 294 two times to fulfill degree requirements.

[3] Students must complete 6 units of BIO 299 to fulfill degree requirements.

No Concentration (16 units)

Code	Title	Units
BIO 221A	Cell and Molecular Methods and Techniques	2
or BIO 221B	Methods in Ecology, Evolution and Conservation	
BIO 282	Evolution	3
Select 11 units of approved electives [1]		11
Total Units		16

[1] Approved electives in Biological Sciences or supporting fields. Electives must be selected in consultation with the graduate advisor and approved at the Advancement to Candidacy meeting. Up to two additional units of BIO 294A/BIO 294B (up to 4 total) taken as a graduate student in the program may be applied to the MS degree.

MS in Biological Science (Molecular and Cellular Biology)

Total units required for MS: 30 includes units required in areas of concentration.

Program Description

The graduate programs in Biological Sciences lead to either a Master of Arts (MA) or a Master of Science (MS) degree and provides an opportunity for students to receive advanced training and to pursue independent investigations in particular fields of biology. It allows students to upgrade their qualifications for educational advancement to doctoral programs or for professional advancement in teaching, laboratory work, or fieldwork. The MA degree requires the completion of a project which is a Grant Proposal, unless the student is in the Stem Cell Concentration which requires an Internship Project Report. The MS degree requires completion of a thesis which has concentrations in Ecology, Evolution and Conservation and in Molecular and Cellular Biology so as to provide advanced training and research experience in these fields.

All students are required to complete a project or thesis involving field, laboratory, or literature research. The project or thesis research may be conducted on campus with a biology faculty member or at an off-campus location. In either case, the student's research must make a new contribution to the field of biology. If the research is conducted off campus, a biology faculty member must be identified as the student's graduate advisor. Following admission to the program, students are advised by a temporary graduate advisor or by the faculty member who has agreed to supervise the student in their project/thesis research. Students should plan their academic programs in consultation with a graduate advisor as early as possible, preferably prior to enrollment in the program.

For additional information regarding the Biological Sciences Graduate Program, students may contact the Biological Sciences Department Office, Biological Sciences website (http://www.csus.edu/bios/), or consult the Biological Sciences Graduate Program Handbook, available through the Department's Web site.

Admission Requirements

Admission as a classified graduate student to the MA or MS program in Biological Sciences requires:

- a baccalaureate degree;
- completion of a major in biological sciences or closely related field; or completion of 24 units of upper division biological sciences courses or courses in closely related fields, each of which must be passed with a 'C-' or better;
- a minimum GPA of 2.75 in all biology courses and a minimum GPA of 3.0 in upper division biology courses;
- a faculty member who has agreed to serve as their graduate advisor (Note: For your application to be considered for admission, you must correspond with a faculty member in the department with whom you would like to work prior to the application deadline. We suggest you do this well in advance of the application deadline. You will be asked to enter the name(s) of the faculty member(s) with whom you have been in correspondence on the Department Application. This requirement does not apply to applicants to the MA Stem Cell Concentration);
- two letters of recommendation from persons qualified to judge the applicant's potential for successful graduate study; and
- a statement of purpose.

It is important to note that meeting all admission requirements does not guarantee acceptance into the graduate program. Students who have deficiencies in admission requirements that can be removed by specified additional preparation, or who have not been accepted by a graduate advisor, may be admitted with conditionally classified graduate status. Admission as a conditionally classified graduate student does not guarantee fully classified status. Fully classified graduate status is conferred when all deficiencies identified at the time of admission are removed and a biology faculty member has agreed to serve as their thesis advisor. Any deficiencies in admissions requirements will be noted on a written response to the admission application.

Admission Procedures

Applicants must complete a university application by the posted application deadline date for the term applying. :

- an online application for admission; and
- two sets of **official** transcripts from **all** colleges and universities attended, *other than Sacramento State*.

For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/.

In addition, all prospective graduate students must submit the following application materials directly to the Department of Biological Sciences:

- an online departmental application for admission;
- one set of **unofficial** transcripts from **all** colleges and universities attended, *other than Sacramento State*;
- two letters of recommendation; and
- a statement of purpose.

Departmental applications for admission are due February 1. There is currently **no general call for admission for students to begin in the spring semester**. However a student may **petition** the department to begin the **spring**. Please contact your potential graduate advisor (i.e., a faculty member in your area of interest) to discuss this option. Approximately eight to ten weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

No units from the following are acceptable toward the master's degree:

Code	Title	Units
BIO 106	Genetics: From Mendel to Molecules	3
BIO 194	Biology-Related Work Experience	6 - 12
BIO 195	Biological Internship	1 - 2
BIO 197A	Laboratory Teaching Assistant	1 - 2
BIO 197B	Laboratory Techniques	1 - 2
BIO 197C	Co-curricular Activities in Biology	1 - 2
BIO 198A	Honors Proseminar and Research	2
BIO 198B	Honors Research and Seminar	2
BIO 199A	Introductory Undergraduate Research	1 - 2
BIO 199B	Directed Readings	1 - 2

Minimum Units and Grade Requirements for the Degree

Units required for the MS: 30 includes units required in areas of concentration
Minimum Cumulative GPA: 3.0

Advancement to Candidacy

The Advancement to Candidacy process serves to ensure that a student is qualified for and making good progress toward successfully completing the Master's degree. Each classified graduate student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least one course at the 200-level;
- begun a preliminary study for the thesis or project; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

An Application for Advancement to Candidacy forms are available on the Office of Graduate Studies website and the Department of Biological Sciences Web site. The student fills out the form after planning a degree program in consultation with his/her Biological Sciences graduate advisor. After approval by the Biological Sciences Graduate Committee and the student's thesis committee, the completed form is returned to the Office of Graduate Studies for approval.

Note:

Supporting Fields: A maximum of 10 units from an approved supporting field (e.g., Chemistry, Physics, Environmental Studies, Geology, Physics) may be counted toward the degree, with graduate advisor and graduate committee approval obtained **before** taking the course(s).

No more than 10 units of BIO 299 and BIO 500 may be applied toward the 30 unit requirement.

Each student who receives a Master's of Science degree from the Department of Biological Sciences must submit a thesis based on original research in biology. A thesis can be based on either of the following sources of data:

- data generated by the student's original research in which the student performs the fieldwork or laboratory experiments and/or
- data obtained from sources other than the student's own fieldwork or laboratory experiments, provided the data are analyzed in an original way.

The use of data must result in an original contribution to the problem being investigated.

All requirements for the Master's degree must be completed within seven (7) years starting from the time the first course is used to meet the master's degree requirements.

Program Requirements [1]

Code	Title	Units
Required Core Courses (10 Units)		
BIO 220	Introduction to Scientific Inquiry	2
BIO 294A	Seminar in Molecular and Cellular Biology [2]	1
or BIO 294B	Seminar in Ecology, Evolution and Conservation	
BIO 299	Problems in Biological Sciences [3]	1 - 4
Culminating Requirement (4 Units)		
BIO 500	Master's Thesis	4
Additional Requirements for Concentrations (16 Units)		
Select a concentration from the following:		16
No Concentration		
Ecology, Evolution and Conservation		
Molecular and Cellular Biology		
Total Units		30

[1] The 30 units must include a minimum of 18 units of 200-level seminar courses.

[2] Students must take BIO 294 two times to fulfill degree requirements.

[3] Students must complete 6 units of BIO 299 to fulfill degree requirements.

Concentration in Molecular and Cellular Biology (16 units)

Code	Title	Units
BIO 221A	Cell and Molecular Methods and Techniques	2
BIO 222	Molecular Biology	3
BIO 224	Genomics, Proteomics, and Bioinformatics	3
Select 8 units of approved electives [1]		8
Total Units		16

[1] Approved electives in Biological Sciences or supporting fields. Electives must be selected in consultation with the graduate advisor and approved at the Advancement to Candidacy meeting. Up to two additional units of BIO 294A (up to 4 total) coursework taken as a graduate student in the program may be applied to the MS degree.

MS in Marine Science

Total units required for MS: 31-34

Program Description

The Master of Science degree in Marine Science is offered as an interdepartmental degree through Biological Sciences in cooperation with Moss Landing Marine Laboratories.

Admission Requirements

The Master of Science degree in Marine Science program is administered through MLML and the Biological Sciences Department. The prospective student must meet the entrance requirements for the program and will be accepted into unclassified or conditionally classified graduate status by normal procedures. The student will become classified upon completion of MLML's requirements.

A conditionally classified student may become fully classified in the Marine Science program as follows:

- obtain an advisor at MLML and one from the department of the student's choice at the home campus. Each new student in the MS program at MLML will be assigned an advisor who may or may not be the final thesis advisor;
- make up any coursework deficiencies at either the home campus department (see their regulations) and/or MLML. MSCI 104, and three of the following five courses are prerequisites for classified graduate standing:

Code	Title	Units
MSCI 103	Marine Ecology	4
MSCI 141	Geological Oceanography	4
MSCI 142	Physical Oceanography	4
MSCI 143	Chemical Oceanography	4
MSCI 144	Biological Oceanography	4

  These courses may be waived by the graduate committee upon certification that equivalent courses have been satisfactorily completed. MSCI 104 is a prerequisite and cannot be counted toward the 30-unit degree requirement;
- students who do not receive a GPA of 3.0 or better in the courses listed above taken at MLML, or who wish to substitute equivalent courses taken elsewhere regardless of the grade(s) received, must pass a written qualifying examination given by the faculty at MLML. Contact MLML for further information.

Minimum Units and Grade Requirement for the Degree

Units required for the MS: 31-34

Minimum Cumulative GPA: 3.0

A student becomes eligible for the MS degree in Marine Science after satisfying the following requirements:

- the student has been advanced to candidacy;
- the student has satisfied MLML's requirements for the degree; and
- the student has completed the following curriculum requirements.

Advancement to Candidacy

To be advanced to candidacy, the student must have:

- attained classified standing;
- selected a thesis problem and a thesis advisory committee. The thesis committee will be composed of at least three members, including one faculty member from MLML (who is ordinarily the thesis advisor) and, at the discretion of the home campus, a representative from that campus. The other member or members of the thesis committee may also be from MLML, or from the home campus, or elsewhere, with the approval of the thesis advisor; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Notes:

- The student must have submitted a thesis approved by the thesis advisory committee. The thesis must conform to the rules set forth by the home campus.
- The student must successfully give an oral thesis defense in the form of a seminar open to the general public. The thesis advisory committee must be present, may require further oral questioning after the seminar, and will evaluate the success of the presentation.

Program Requirements

Code	Title	Units
Required Courses (7-10 Units)		
MSCI 285	Seminar in Marine Biology	2
MSCI 286	Seminar in Marine Geology	2
MSCI 287	Seminar In Oceanography	2
MSCI 299	Master's Thesis	1 - 4
Electives (24 Units) [1]		
Select 9 units of electives from MSCI 200-level courses		9
Select 15 units of electives from MSCI 100-level or above courses as approved by the thesis committee. The following courses may be used:		15
MSCI 112	Marine Birds and Mammals	
MSCI 113	Marine Ichthyology	
MSCI 124	Marine Invertebrate Zoology I	
MSCI 125	Marine Invertebrate Zoology II	
MSCI 131	Marine Botany	
MSCI 201	Library Research Methods	
MSCI 202	Oceanographic Instrumentation	
MSCI 211	Ecology of Marine Birds and Mammals	
MSCI 212	Advanced Topics in Marine Vertebrates	
MSCI 221	Advanced Topics in Marine Invertebrates	
MSCI 231	Biology Of Seaweeds	
MSCI 234	Advanced Biological Oceanography	
MSCI 242	Plate Tectonics	

MSCI 248	Marine Benthic Habitat Techniques	
MSCI 251	Marine Geochemistry	
MSCI 261	Ocean Circulation and Mixing	
MSCI 271	Population Biology	
MSCI 272	Subtidal Ecology	
MSCI 280	Scientific Writing	
MSCI 298	Research in the Marine Sciences	
Total Units		31-34

[1] Other electives, including courses from home campus departments, may be included after consultation with the thesis advisory committee. See course descriptions for prerequisites.

Subject Matter Program (Biology)

Units required for Subject Matter Program: 61-65

Program Description

The Science Subject Matter Program (in biology, chemistry, physics, or foundational level general science) is designed to meet the California Commission on Teacher Credentialing (CTC) subject matter requirement for students to enter a California Single Subject teaching credential program. Meeting the subject matter requirement is a credential program admission requirement, and can be met either through a subject matter program (such as those described below) or by taking a state approved content exam (currently the California Subject Exam for Teachers, the CSET). In order to meet the subject matter program requirement, all courses must be completed with a grade of 'C-' or better. In order to teach public school in California, you must also complete a teaching credential program.

Subject matter programs are not degrees or concentrations; instead they are a series of courses that allow a student to meet the requirements for admission to a teaching credential program. Students must also complete a BA or BS degree (with any major) to fulfill the credential requirements.

Science majors who intend to pursue a teaching credential should see a faculty advisor or the department chair in the department of their academic major. It is recommended that they do so early as it is critical that their science coursework be carefully planned and coordinated to include the required subject matter program courses. In addition, students are encouraged to become involved with education related activities like grading, assisting in labs, tutoring K-12 students, and visiting schools; please speak with the subject matter advisors in your area for more information.

Program Requirements

Code	Title	Units
ASTR 4A	Introduction to the Solar System	3
ASTR 4B	Introduction to Stars, Galaxies, and Cosmology	3
BIO 1 & BIO 2	Biodiversity, Evolution and Ecology Cells, Molecules and Genes [1]	10
CHEM 1A	General Chemistry I [1]	5
CHEM 1B	General Chemistry II	5
ENVS 10	Introduction to Environmental Science [1]	3
GEOL 10	Physical Geology [1]	3
Select one of the following:		8 - 12
PHYS 5A & PHYS 5B	General Physics: Mechanics, Heat, Sound General Physics: Light, Electricity and Magnetism, Modern Physics [1]	
PHYS 11A & PHYS 11B & PHYS 11C	General Physics: Mechanics General Physics: Heat, Light, Sound, Modern Physics General Physics: Electricity and Magnetism [1]	
Required Upper Division Core Courses (21 Units)		
BIO 121	Molecular Cell Biology	3
BIO 131	Systemic Physiology	4
BIO 139	General Microbiology	4
BIO 160	General Ecology	3
BIO 184	General Genetics	4
BIO 188	Evolution	3
Total Units		61-65

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Note:

- BIO 195T is highly recommended for students interested in pursuing a biology credential in the CSU system; 45 hours of documented work with the target school age is required prior to admission in a credential program.

Chemistry

College of Natural Sciences and Mathematics

Program Description

Chemistry is the area of science in which the composition, structure, properties, and reactions of substances are studied. The Chemistry Department at Sacramento State offers a BS in Chemistry, a BS in Biochemistry, a BA in Chemistry (including concentrations in Biochemistry or Forensic Chemistry), and the MS degree in Chemistry (including a concentration in Biochemistry).

The BS degrees are recommended for students intending to pursue graduate work in Chemistry or Biochemistry or those desiring a strong technical background for work in the chemical or biotechnology industry or other highly technical areas. The BS Chemistry degree is approved by the American Chemical Society.

The BA degree is more flexible in terms of upper division electives and is recommended for students interested in professional health degrees, forensic chemistry, or other programs with a major component of chemistry. Students planning to teach Chemistry at the secondary school level are advised to obtain a BA in Chemistry.

The graduate program in Chemistry leads to a Master of Science (MS) degree. It provides students an opportunity to receive advanced training in chemistry, biochemistry, and chemical education and to pursue independent research. The MS program enhances a student's overall knowledge in chemistry and experimental skills and prepares students for careers in industry and teaching and for entry into PhD and professional programs.

Degree Programs

BA in Chemistry (Biochemistry) (p. 816)

BA in Chemistry (Forensic Chemistry) (p. 818)

BA in Chemistry (General) (p. 820)

BS in Biochemistry (p. 821)

BS in Chemistry (p. 823)

Chemistry Honors Program (p. 824)

Minor in Chemistry (p. 825)

Subject Matter Program (Pre-Credential Preparation) (p. 829)

MS in Chemistry (p. 825)

MS in Chemistry (Biochemistry) (p. 827)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Arts and the Bachelor of Science in Chemistry are also individually accredited by the American Chemical Society.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

- The Department of Chemistry is accredited by the American Chemical Society, and students graduating with the BS Chemistry degree will receive a certificate from the Society.
- Extensive available instrumentation includes two Agilent 7890 GC-Mass spectrometers; an Agilent 1260/6460 LC-Mass spectrometer (triple quadrupole); a Bruker Avance-500 NMR; a Bruker Avance-300 NMR; a Bruker MSL 300MHz wide bore NMR; a Nicolet IS-50 FTIR; a Shimadzu UV-2401 PC spectrometer; two Shimadzu spectrofluorometers (RF 6000 and RF5301PC); numerous uv-vis diode array spectrophotometers; a Beckman L2-50 ultracentrifuge; numerous Agilent/HPLC systems; a Perkin-Elmer atomic absorption spectrometer; a thermoanalyzer; a QuantumCube computational system; Spartan and Gaussian computational chemistry software; numerous gas chromatographs.
- Several science computing labs are available to students.
- The Chemistry faculty strongly believe that students majoring in Chemistry should have an opportunity to participate in basic or applied research and to work closely with faculty in developing their chemical skills and knowledge. Bachelor of Science and Bachelor of Arts majors are strongly encouraged to complete an independent research project. All graduate students must enroll in a graduate research course.
- All faculty serve as advisors to students and have a strong commitment to helping students find jobs or gain admission to graduate programs or professional schools.
- Our department environment is very similar to a small college liberal arts experience.

Career Possibilities

Students in our program learn both fundamental theory and practical application in all areas of chemistry (inorganic, analytical, organic, physical, biochemical) and they gain substantial experience operating highly sophisticated instrumentation. This prepares students for a wide variety of careers. Examples include: environmental chemistry, toxicology, materials science, government and industry laboratories, biotechnology, agricultural technology, high school science teaching, medicine, dentistry, optometry and other related health sciences, pharmacy and pharmacology, patent law, computational chemistry, forensic analysis, sales representative for instrument, chemical and pharmaceutical companies, art restoration and more.

Contact Information

Roy Dixon, Department Chair
Michelle Williams, Administrative Support Coordinator
Sequoia Hall 506
(916) 278-6684
Department of Chemistry Website (http://www.csus.edu/chem/)

Faculty

BAUER, JOHANNES

CRAWFORD, SUSAN M.

DIXON, ROY W.

GHERMAN, BENJAMIN

HOUSTON, JACQUELINE

KELLEN-YUEN, CYNTHIA

LUCERO, CLAUDIA

MA, YINFA

MACK, JEFF

McCARTHY HINTZ, MARY

McREYNOLDS, KATHERINE

MILLER-SCHULZE, JUSTIN

MIRANDA, JAMES

PARADIS, JEFFREY

RITCHEY, JAMES M.

ROBERTS, LINDA M.

SAVAGE, TOM

SPENCE, JOHN

CHEM 1A. General Chemistry I. 5 Units
Prerequisite(s): High school chemistry and college algebra; sufficient performance on the college algebra diagnostic test, or equivalent; passing score on a standardized Chemistry diagnostic exam given prior to each semester, or a minimum grade of 'C' in CHEM 4.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B3)
Term Typically Offered: Fall, Spring

Fundamental principles and concepts of chemistry, including stoichiometry; thermochemistry; atomic and molecular structure; solution chemistry, including acid-base chemistry; quantum theory; bonding and intermolecular forces; and chemical kinetics. Lecture three hours, laboratory three hours, discussion one hour.
Note: Not open to enrollment by engineering majors, who should take CHEM 1E, General Chemistry for Engineering.

CHEM 1B. General Chemistry II. 5 Units
Prerequisite(s): CHEM 1A with a passing grade of C or better.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Continuation of the development of fundamental principles of chemistry and application of principles developed in CHEM 1A. The laboratory work emphasizes applications of equilibrium principles, including some qualitative analysis, coordination chemistry and bioinorganic chemistry. Lecture three hours, laboratory six hours. Knowledge of word processing and spreadsheet software is recommended.

CHEM 1E. General Chemistry for Engineering. 4 Units
Prerequisite(s): High school chemistry; Math 30 or eligibility to take MATH 30 as evidenced by the calculus readiness diagnostic exam; passing score on a standardized Chemistry diagnostic exam given prior to each semester, or minimum grade of 'C' in CHEM 4
Term Typically Offered: Fall, Spring, Summer

A one-semester chemistry course for engineering students covering the fundamental principles and concepts of chemistry important to engineering applications. Lecture topics include atomic and molecular structure, solution chemistry, equilibrium, oxidation-reduction, thermochemistry; intermolecular forces; electrochemistry; radiochemistry; polymers; metallic bonding and alloys; chemical diffusion and kinetics. Lecture three hours, Lab three hours.
Note: Enrollment in this course is restricted to engineering majors.

CHEM 4. Chemical Calculations. 3 Units
Prerequisite(s): High school algebra and college algebra; sufficient performance on the college algebra diagnostic test, or equivalent.
Term Typically Offered: Fall, Spring, Summer

Introductory chemistry for students who plan to major in a scientific field. Appropriate for students desiring to prepare themselves for Chemistry 1A. Emphasizes chemical nomenclature and techniques of chemical problem solving. Topics covered include: dimensional analysis; conversions between measuring units; weight, mole and chemical equations; density; elementary gas laws; heat and temperature; elementary acid and base chemistry; oxidation and reduction; solutions. Three hours lecture.

CHEM 6A. Introduction to General Chemistry. 5 Units
Prerequisite(s): One year high school algebra; high school chemistry recommended.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B3)
Term Typically Offered: Fall, Spring

Structure of atoms, molecules and ions; their interactions including stoichiometry, equilibria, and oxidation-reduction. Does not fulfill the requirements for more advanced study in chemistry and cannot be counted toward a major or minor in chemistry. Lecture three hours, discussion one hour, laboratory three hours.

CHEM 6B. Introduction to Organic and Biological Chemistry. 5 Units
Prerequisite(s): CHEM 1A or CHEM 6A, or a high school chemistry course and passing a qualifying exam given in the first laboratory period.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Introduction to structure and properties of the major classes of organic compounds; introduction to nomenclature and to the fundamental concepts of reaction mechanisms and stereochemistry; the chemistry and metabolism of carbohydrates, lipids, proteins (including enzymes); the chemistry of nucleic acids. Does not fulfill the requirement for more advanced study in chemistry and cannot be counted toward a major or minor in chemistry. Lecture three hours; discussion one hour; laboratory three hours.

CHEM 20. Organic Chemistry Lecture--Brief Course. 3 Units
Prerequisite(s): CHEM 1B.
Term Typically Offered: Fall, Spring, Summer

Basic principles of organic chemistry. Recommended for students majoring in life-sciences, but not recommended for preprofessional students.

CHEM 20L. Introductory Organic Chemistry Laboratory. 1 Unit
Prerequisite(s): CHEM 20; CHEM 20 may be taken concurrently.
Term Typically Offered: Fall, Spring

Basic organic experimental techniques. Experimental topics include: melting points, purification of solids, distillation, chromatography, extraction, and functional group qualitative analysis. Specifically designed for Biological Sciences majors and others who want to meet the Chemistry minor requirements for a lower division organic laboratory. Laboratory three hours.

CHEM 24. Organic Chemistry Lecture I. 3 Units
Prerequisite(s): CHEM 1B.
Term Typically Offered: Fall, Spring, Summer

Introduction to the basic principals of organic chemistry, including nomenclature, properties and reactions of various classes of organic compounds. Reaction mechanisms will be emphasized.
Note: Required for chemistry majors and recommended for preprofessional students.

CHEM 25. Organic Chemistry Laboratory. 3 Units
Prerequisite(s): CHEM 24, CHEM 124; CHEM 124 may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Basic organic experimental techniques including the preparation, separation, purification and identification of organic compounds. Discussion one hour, laboratory six hours.

CHEM 31. Quantitative Analysis. 4 Units
Prerequisite(s): CHEM 1B.
Term Typically Offered: Fall, Spring

Chemical measurements including associated statistics, chemical equilibrium in aqueous solutions, volumetric analysis, and an introduction to spectrophotometry and chromatography. Lecture two hours, laboratory six hours.

CHEM 89. Introduction to Undergraduate Research. 1 - 3 Units
Term Typically Offered: Fall, Spring

Introduction to undergraduate research which requires students to become familiar lab safety policies, SDSs, and SOPs in the research lab (if applicable), attend group meetings (if applicable) and learn methods of experimental, educational and/or computational design. Students must show proficiency in these requirements in order to receive a final grade. Credit/No Credit

CHEM 106. Chemical Concepts. 3 Units
Prerequisite(s): GEOL 8 or BIO 7 and ENGL 20 or an equivalent second semester composition course. Fee course.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Principles and concepts of chemistry with applications in the home and environment. Satisfies the upper division chemistry requirement for the multiple-subject teaching credential. Lecture one hour, discussion and activity four hours. Does not fulfill credit requirements for the major or minor in chemistry.
Fee course.

CHEM 110. Inorganic Chemistry Lecture. 3 Units
Prerequisite(s): CHEM 125, CHEM 140B or CHEM 142 instructor permission; CHEM 140B may be taken concurrently, however, students are encouraged to complete CHEM 140B and CHEM 141 first.
Corequisite(s): CHEM 110L.
Term Typically Offered: Fall only

Application of atomic structure, the periodic law, molecular structure and bonding principles, electrochemical principles and other selected models and concepts to theoretical and descriptive inorganic chemistry. Physical and chemical properties of selected elements and inorganic compounds are studied.

CHEM 110L. Advanced Inorganic Chemistry Laboratory. 2 Units
Prerequisite(s): CHEM 125, ENGL 20 or an equivalent second semester composition course.
Corequisite(s): CHEM 110.
Term Typically Offered: Fall only

Preparation, purification and instrumental studies of inorganic compounds. Instrumental and experimental techniques will include EPR, magnetic susceptibility, FTIR, UV-VIS spectroscopy and inert atmosphere techniques.

CHEM 124. Organic Chemistry Lecture II. 3 Units
Prerequisite(s): CHEM 24 or instructor permission; concurrent enrollment in CHEM 25 recommended.
Term Typically Offered: Fall, Spring, Summer

Continued discussion of the principals of organic chemistry, including nomenclature, properties, and reactions of various classes of organic compounds and spectroscopic analysis. Reaction mechanisms will be emphasized.

CHEM 125. Advanced Organic Chemistry Laboratory. 3 Units
Prerequisite(s): CHEM 25, CHEM 124, ENGL 20 or an equivalent second semester composition course.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Focuses on advanced organic laboratory techniques and instrumental methods of analysis. Not intended for pre-health professional majors. Discussion one hour, laboratory six hours.

CHEM 126. Physical Organic Chemistry. 3 Units
Prerequisite(s): CHEM 124, and CHEM 140B or CHEM 142, or instructor permission.
Corequisite(s): CHEM 140B or CHEM 142 may be taken concurrently.
Term Typically Offered: Fall, Spring

Study of mechanistic organic chemistry, the physical tools used to study reaction mechanisms, and the relationship between structure and reactivity. Topics include bonding theories, stereoelectronic effects, transition state theory, thermodynamics, kinetic analysis, isotope effects, linear free energy relationships, and application of frontier molecular orbital theory to examine reactions including pericyclic reactions.
Note: Students who have taken CHEM 126 at Sacramento State cannot take CHEM 226 for credit.

CHEM 128. Organic Synthesis. 3 Units
Prerequisite(s): CHEM 124.
Term Typically Offered: Spring only

Application of functional group reactions to multistep syntheses. Recently developed synthetic methods and literature searching will be emphasized.

CHEM 133. Chemical Instrumentation. 4 Units
Prerequisite(s): CHEM 31, concurrent enrollment in CHEM 140B or completion of CHEM 142: ENGL 20 or an equivalent second semester composition course. Graded: Graded Student. Units: 4.0
Term Typically Offered: Fall, Spring

Modern instrumentation and methods for chemical analysis. Function of electronics and computers in instruments. Theory and use of instruments in the areas of electrochemistry, spectroscopy, mass spectrometry and chromatography. Lecture two hours, laboratory six hours.

CHEM 140A. Physical Chemistry Lecture I. 3 Units
Prerequisite(s): CHEM 1B, CHEM 24, CHEM 31, MATH 32, PHYS 5A, PHYS 5B, or PHYS 11A, PHYS 11B, PHYS 11C; PHYS 11B may be taken concurrently.
Term Typically Offered: Fall only

Introduction to chemical thermodynamics and kinetics.

CHEM 140B. Physical Chemistry Lecture II. 3 Units
Prerequisite(s): CHEM 140A.
Term Typically Offered: Spring only

Introduction to molecular quantum chemistry, structure of matter, molecular spectroscopy, and statistical thermodynamics.

CHEM 141. Physical Chemistry Laboratory. 3 Units
Prerequisite(s): ENGL 20 or an equivalent second semester composition course; CHEM 140A, CHEM 140B or CHEM 142, instructor permission; CHEM 140B may be taken concurrently.
Term Typically Offered: Fall, Spring

Selected exercises in the practice of physio-chemical laboratory methods. Lecture one hour, laboratory six hours.

CHEM 142. Introduction to Physical Chemistry. 4 Units
Prerequisite(s): CHEM 1B, CHEM 24, PHYS 5A, PHYS 5B, MATH 31.
Term Typically Offered: Fall, Spring

Introductory presentation of the theoretical and practical aspects of thermodynamics, quantum chemistry, spectroscopy, and kinetics. As time permits, other topics will be: solution chemistry, hydrodynamics, electrochemistry, and crystallography.
Note: Not acceptable for the BS or the BA without concentration.

CHEM 145. Applications of Computational Chemistry. 3 Units
Prerequisite(s): CHEM 140A and CHEM 140B or CHEM 142, or instructor permission.
Term Typically Offered: Fall only – odd years

Brief introduction/background in computational theory, with emphasis on chemical/biochemical applications. Demonstration/instruction of widely used modeling/computational software. Covering techniques including molecular mechanics, semi-imperical methods and 'ab initio' methods. Application of computational methods to thermodynamics, kinetics, spectra, electrochemistry, molecular properties. Lecture three hours.
Note: 1) CHEM 245 students will complete an additional research project beyond that expected of students in CHEM 145; 2) Students who have taken CHEM 145 at Sacramento State cannot take CHEM 245 for credit.

CHEM 160A. Structure and Function of Biological Molecules. 3 Units
Prerequisite(s): CHEM 124; MATH 26A or MATH 30 is recommended. Fall only.
Term Typically Offered: Fall only

The chemistry and biochemistry of amino acids, proteins, nucleic acids, lipids and carbohydrates. Also includes enzyme kinetics, the structure and function of biological membranes and discussion of some common laboratory methods. Lecture three hours.

CHEM 160B. Metabolism and Regulation of Biological Systems. 3 Units
Prerequisite(s): CHEM 160A or equivalent course; one year of organic chemistry. Spring only.
Term Typically Offered: Spring only

The bioenergetics and regulation of anaerobic and aerobic metabolic pathways. Major topics include glycolysis, Kreb's cycle, fatty acid and amino acid oxidation, lipid biosynthesis and photosynthesis. Particular emphasis is given to pathway regulation and integration. Lecture three hours.

CHEM 161. General Biochemistry. 3 Units
Prerequisite(s): CHEM 20 or CHEM 124; one year of biological science is recommended.
Term Typically Offered: Fall, Spring, Summer

Introduction to the structure and function of biological molecules (carbohydrates, lipids, proteins, nucleic acids, enzymes and hormones), enzyme kinetics, the structure and function of membranes, and the bioenergetics and regulation of major anaerobic and aerobic metabolic pathways.

CHEM 162. General Biochemistry Laboratory. 3 Units
Prerequisite(s): CHEM 31; CHEM 160A or CHEM 161 (either CHEM 160A or CHEM 161 may be taken concurrently); ENGL 20 or an equivalent second semester composition course.
Term Typically Offered: Fall, Spring

Introduction to fundamental laboratory techniques for the purification and analysis of biological molecules, including chromatographic separation of amino acids and proteins, electrophoretic separation of proteins and nucleic acids, enzyme kinetics, and basic bioinformatics. Discussion one hour, laboratory six hours.

CHEM 164. Advanced Biochemistry Laboratory. 3 Units
Prerequisite(s): CHEM 162 or equivalent; ENGL 20 or an equivalent second semester composition course.
Term Typically Offered: Fall, Spring

Capstone course which emphasizes biochemical laboratory experimental design and trouble-shooting skills. Common biochemistry laboratory techniques are applied in semester-long individual student projects. Discussion one hour, laboratory six hours.

CHEM 189A. Undergraduate Research. 1 - 3 Units
Prerequisite(s): ENGL 20 or equivalent
Term Typically Offered: Fall, Spring

Directed undergraduate research involving a project that requires use of chemical literature and experimental design. A comprehensive written report and/or scientific poster must be submitted to receive a final grade.
Note: Only three units of CHEM 189A-C may be applied toward the major requirement in chemistry for the BA or BS degrees.

CHEM 189B. Intermediate Undergraduate Research. 1 - 3 Units
Prerequisite(s): ENGL 20 or equivalent and CHEM 189A
Term Typically Offered: Fall, Spring

Continuing directed undergraduate research involving a project with emphasis on experimentation and data analysis. A comprehensive written report and/or scientific poster must be submitted to receive a final grade.
Note: Only three units of CHEM 189A-C may be applied toward the major requirement in chemistry for the BA or BS degrees.

CHEM 189C. Advanced Undergraduate Research. 1 - 3 Units
Prerequisite(s): ENGL 20 and CHEM 189B
Term Typically Offered: Fall, Spring

Culminating directed undergraduate research with emphasis on comprehensive data analysis and formulation of conclusions. A comprehensive written report and/or scientific poster must be submitted to receive a final grade.
Note: Only three units of CHEM 189A-C may be applied toward the major requirement in chemistry for the BA or BS degrees.

CHEM 189D. Culminating Advanced Undergraduate Research. 1 - 3 Units
Prerequisite(s): ENGL 20 and CHEM 189C
Term Typically Offered: Fall, Spring

Extension of culminating undergraduate research with emphasis on finalizing data analysis and writing experimental methods for potential publication. A comprehensive written report (if a scientific poster was completed in 189C) and/or scientific poster (if a written report was completed in 189C) must be submitted to receive a final grade.
Credit/No Credit

CHEM 194. Chemistry-Related Work Experience. 6 - 12 Units
Prerequisite(s): Open only to upper division students and consent of Department Chair. Units may not be applied toward a major in Chemistry or Biochemistry.
Term Typically Offered: Fall, Spring

Supervised employment in a Chemistry related company or agency. Placement is arranged through the Department and the Cooperative Education Program office. Requires completion of a 3-6 month work assignment and a written report.
Credit/No Credit

CHEM 198. Senior Research. 3 Units
Prerequisite(s): One upper division chemistry laboratory class, ENGL 20 or an equivalent second semester composition course and instructor and department chair permission.
Term Typically Offered: Fall, Spring

The student will conduct an independent study of a chemical research topic that is based on experimental techniques or advanced computer modeling. Significant use of chemical literature and information retrieval is required. A well-written, comprehensive, and well-documented final report must be submitted to receive a final grade. A weekly seminar is required. Seminar one hour, laboratory activities are a minimum of six hours per week.

CHEM 198H. Chemistry Honors Thesis. 3 Units
Prerequisite(s): Open only to students who meet the Chemistry Honors Program criteria; CHEM 198 may be taken concurrently.
Term Typically Offered: Spring only

Completion of an undergraduate honors thesis and attendance at chemistry seminars. Students will develop a written thesis containing background, methodology, results, and discussion of an experimental or computational research project involving their own original data.

CHEM 200. Research Methods in Chemistry. 3 Units
Prerequisite(s): Must be a Chemistry graduate student or have instructor permission
Term Typically Offered: Fall, Spring

This course is designed to improve the ability of graduate students to research and interpret the chemical literature. Students work through a series of exercises in preparation for a major writing project such as a thesis proposal or a thesis chapter/section. Exercises include analysis of primary research articles, peer review of student writing samples, and presentation of scientific information. These activities will improve students' understanding of how scientific questions are developed and posed through proposals and dissemination of research results.

CHEM 220. Spectrometric Identification of Compounds. 3 Units
Term Typically Offered: Fall only

Theory, interpretation, and application of ultraviolet, infrared, nuclear magnetic resonance and mass spectra for the elucidation of organic compounds.

CHEM 226. Physical Organic Chemistry. 3 Units
Prerequisite(s): Enrollment in Chemistry master's degree program or instructor permission
Term Typically Offered: Fall, Spring

Study of mechanistic organic chemistry, the physical tools used to study reaction mechanisms, and the relationship between structure and reactivity. Topics include bonding theories, stereoelectronic effects, transition state theory, thermodynamics, kinetic analysis, isotope effects, linear free energy relationships, and application of frontier molecular orbital theory to examine reactions including pericyclic reactions.
Note: Students who have taken CHEM 126 at Sacramento State cannot take CHEM 226 for credit.

CHEM 230. Separation Methods in Chemistry. 3 Units
Term Typically Offered: Fall, Spring

Theoretical and practical aspects of separation sciences. Methods of separations that are included are liquid-liquid extraction and ion exchange, gas, and liquid chromatography. Lecture three hours.

CHEM 245. Applications of Computational Chemistry. 3 Units
Term Typically Offered: Fall only – odd years

Brief introduction/background in computational theory, with emphasis on chemical/biochemical applications. Demonstration/instruction of widely used modeling/instruction of software. Covering techniques including molecular mechanics, semi-imperical methods and 'ab initio' methods. Application of computational methods to thermodynamics, kinetics, spectra, electrochemistry, molecular properties. Lecture three hours.
Note: 1) CHEM 245 students will complete an additional research project beyond that expected of students in CHEM 145; 2) Students who have taken CHEM 145 at Sacramento State cannot take CHEM 245 for credit.

CHEM 250. Selected Topics in Chemistry. 3 Units
Prerequisite(s): Enrollment in MS Chemistry graduate program or instructor permission.
Term Typically Offered: Fall, Spring

Intensive coverage of one or more advanced topics in chemistry. A variety of learning/teaching methodologies may be employed including lecture, team projects, computer modeling, oral presentations and poster projects. May be team-taught.
Note: May be team-taught. May be repeated once for credit if topics are different.

CHEM 251. Topics in Interdisciplinary Chemistry. 3 Units
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.
Term Typically Offered: Fall, Spring

Lecture course focusing on interdisciplinary topics in chemistry and related fields. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 252. Topics in Synthetic Chemistry. 3 Units
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.
Term Typically Offered: Fall, Spring

Lecture course focusing on synthetic chemistry. Focus may be on biochemical, inorganic, or organic synthetic chemistry. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 253. Topics in Applied Chemistry. 3 Units
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.
Term Typically Offered: Fall, Spring

Lecture course focusing on applications of chemistry to a variety of fields. Areas of focus my include biological, environmental, materials, and pharmaceutical applications. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 254. Topics in Physical Chemistry. 3 Units
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.
Term Typically Offered: Fall, Spring

Lecture course focusing on topics in physical chemistry. Areas of focus may include content areas such as quantum mechanics, physical/organic or biophysical chemistry, an/or in-depth treatment of structure analysis and determination. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 255. Topics in Chemistry Education. 3 Units
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.
Term Typically Offered: Fall, Spring

Intensive coverage of one or more advanced topics in chemistry. A variety of learning/teaching methodologies may be employed, including lecture, team projects, computer modeling, oral presentations and poster projects. May be team-taught.

CHEM 260. Protein Biochemistry. 3 Units
Prerequisite(s): One semester of biochemistry.
Term Typically Offered: Fall, Spring

Provides a comprehensive review of proteins, with emphasis on protein structure and structure/function relationships. Topics include methods for structure determination, stability and folding, catalysis and denovo protein design. Topical examples from the literature, particularly those related to disease states, are used to illustrate fundamental principles of protein structure and function.

CHEM 261. Nucleic Acid Chemistry. 3 Units
Prerequisite(s): Undergraduate course in biochemistry.
Term Typically Offered: Fall, Spring

The recent biochemical literature will be used to study the structural, chemical, and physical properties of nucleic acids. Chemical mechanisms of mutation , protein-nucleic acid interactions, and DNA-drug interactions will be used to illustrate these properties.

CHEM 294. Seminar In Chemistry. 0.5 Units
Term Typically Offered: Fall, Spring

Student presentations of topics from the chemical literature; presentations of current chemistry topics from speakers in academia, industry, and government positions. May be repeated for a total of 2 units.
Note: Grade of C/NC will be based on attendance and successful presentation of a seminar.

Credit/No Credit

CHEM 296. Experimental Offerings in Chemistry. 1 Unit
Prerequisite(s): Instructor approval.
Term Typically Offered: Fall, Spring

Presentation and discussion of graduate student and faculty research and current literature with emphasis on critical evaluation of research design, data analysis and presentation techniques. One hour discussion.
Note: May be taken up to four times for credit, but only one unit may be applied to the University's requirement for 200-level courses.

Credit/No Credit

CHEM 299. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Graduate research. Approval must be obtained from a departmental committee and the faculty member under whom the work is to be conducted. Written report must be submitted before a final grade is given.
Credit/No Credit

CHEM 500. Culminating Experience. 2 - 4 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree. Should be taken in final semester prior to the completion of all requirements for the degree. Number of units of credit is determined by the candidate's master's degree advisory committee.

Contact Lenses

For department policies, including safety policies, please visit our webpage www.csus.edu/chem (http://www.csus.edu/chem/).

BA in Chemistry (Biochemistry)

Units required for Major: 64-77
Total units required for BA: 120

Program Description

Three BA programs are available: One without a concentration (general) and two with concentrations (Biochemistry or Forensic Chemistry). The common requirements of the three programs are shown below under 'Core Requirements.'

Safety

Due to the potential hazards some chemicals may present, safety is an essential element of all Chemistry laboratory classes, including independent research. All students must adhere to the Department of Chemistry Laboratory Safety Policies (http://www.csus.edu/chem/

safety.html). Failure to adhere to the Safety Policies may constitute grounds for withdrawal from a course and/or dismissal from the program.

Contact Lenses

Chemistry Department policy states that contact lenses are prohibited in all chemistry laboratories; prescription glasses should be worn instead. In addition, safety goggles are required in all laboratories. Laboratory aprons are recommended.

Advising

The Department believes advising of students is an important function. Members of the Chemistry Department who have a strong interest in advising have been selected to serve as advisors for students wishing to major in chemistry. Each represents a particular area of chemistry: analytical, inorganic, biochemistry, organic, and physical. Each Chemistry major will be assigned to one of these advisors when entering the Chemistry Department, coordinated to the area of each student's expressed interest.

Prerequisite Requirements

When enrolling in a course, it is required that the student will have met the specific prerequisites listed. A course listed as a prerequisite may have its own set of prerequisites. All must be met prior to enrolling in a chemistry course. Students not meeting the prerequisite requirements for a course will be administratively removed from the class.

Minimum Grade Requirements

In all courses required for the Chemistry major and minor, a minimum grade of 'C-' must be earned with the exception of CHEM 1A which requires a grade of C or better. A minimum grade of 'C-' is required in all prerequisite courses with the exception of CHEM 1A which requires a grade of C or better to meet the prerequisite requirement for CHEM 1B if a student has not achieved a 'C-' in all prerequisite courses for a particular chemistry course, the instructor of the course will administratively remove the student from class.

Transfer Majors and Minors

Transfer students majoring in Chemistry must complete at least three of the required courses in chemistry while fulfilling the residence requirements of California State University, Sacramento. Transfer students seeking a minor in Chemistry must complete at least one upper division chemistry course at the University.

Program Requirements

Code	Title	Units
Core Requirements (39-43 Units)		
CHEM 1A	General Chemistry I [1,2]	5
CHEM 1B	General Chemistry II	5
CHEM 24	Organic Chemistry Lecture I	3
CHEM 25	Organic Chemistry Laboratory	3
CHEM 31	Quantitative Analysis	4
CHEM 124	Organic Chemistry Lecture II	3
MATH 30	Calculus I [1]	4
MATH 31	Calculus II	4
Select one of the following sequences:		8 - 12
PHYS 5A & PHYS 5B	General Physics: Mechanics, Heat, Sound General Physics: Light, Electricity and Magnetism, Modern Physics	
PHYS 11A & PHYS 11B & PHYS 11C	General Physics: Mechanics General Physics: Heat, Light, Sound, Modern Physics General Physics: Electricity and Magnetism	
Total Units		39-43

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Passing a placement exam or obtaining a passing grade of 'C' or better in CHEM 4 is required to enroll in CHEM 1A.

Concentration in Biochemistry (32-34 units)

Code	Title	Units
BIO 1	Biodiversity, Evolution and Ecology [1]	5
BIO 2	Cells, Molecules and Genes	5
Select one of the following:		4 - 6
CHEM 140A & CHEM 140B	Physical Chemistry Lecture I Physical Chemistry Lecture II	
CHEM 142	Introduction to Physical Chemistry	
CHEM 160A	Structure and Function of Biological Molecules	3
CHEM 160B	Metabolism and Regulation of Biological Systems	3
CHEM 162	General Biochemistry Laboratory	3
CHEM 164	Advanced Biochemistry Laboratory	3
Select 6 units of Electives in Biological Sciences (must be from the following courses):		6
BIO 121	Molecular Cell Biology	
BIO 131	Systemic Physiology	
BIO 139	General Microbiology	
BIO 180	Advanced Molecular Biology	
BIO 184	General Genetics	
Total Units		32-34

1. Course also satisfies General Education (GE)/Graduation Requirement.

Note: Students may also complete a BA with a concentration in Biochemistry by taking the general BA curriculum and completing the following additional courses:

Code	Title	Units
BIO 1	Biodiversity, Evolution and Ecology	5
BIO 2	Cells, Molecules and Genes	5
CHEM 160A	Structure and Function of Biological Molecules	3
CHEM 160B	Metabolism and Regulation of Biological Systems	3
CHEM 162	General Biochemistry Laboratory	3
CHEM 164	Advanced Biochemistry Laboratory	3
Select 6 units of upper division Biology courses from the approved list		6
Total Units		28

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		39

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BA in Chemistry (Forensic Chemistry)

Units required for Major: 64-77
Total units required for BA: 120

Program Description

Three BA programs are available: One without a concentration (general) and two with concentrations (Biochemistry or Forensic Chemistry). The common requirements of the three programs are shown below under 'Core Requirements.'

Safety

Due to the potential hazards some chemicals may present, safety is an essential element of all Chemistry laboratory classes, including independent research. All students must adhere to the Department of Chemistry Laboratory Safety Policies (http://www.csus.edu/chem/safety.html). Failure to adhere to the Safety Policies may constitute grounds for withdrawal from a course and/or dismissal from the program.

Contact Lenses

Chemistry Department policy states that contact lenses are prohibited in all chemistry laboratories; prescription glasses should be worn instead. In addition, safety goggles are required in all laboratories. Laboratory aprons are recommended.

Advising

The Department believes advising of students is an important function. Members of the Chemistry Department who have a strong interest in advising have been selected to serve as advisors for students wishing to major in chemistry. Each represents a particular area of chemistry: analytical, inorganic, biochemistry, organic, and physical. Each Chemistry major will be assigned to one of these advisors when entering the Chemistry Department, coordinated to the area of each student's expressed interest.

Prerequisite Requirements

When enrolling in a course, it is required that the student will have met the specific prerequisites listed. A course listed as a prerequisite may have its own set of prerequisites. All must be met prior to enrolling in a chemistry course. Students not meeting the prerequisite requirements for a course will be administratively removed from the class.

Minimum Grade Requirements

In all courses required for the Chemistry major and minor, a minimum grade of 'C-' must be earned with the exception of CHEM 1A which requires a grade of C or better. A minimum grade of 'C-' is required in all prerequisite courses with the exception of CHEM 1A which requires a

grade of C or better to meet the prerequisite requirement for CHEM 1B if a student has not achieved a 'C-' in all prerequisite courses for a particular chemistry course, the instructor of the course will administratively remove the student from class.

Transfer Majors and Minors

Transfer students majoring in Chemistry must complete at least three of the required courses in chemistry while fulfilling the residence requirements of California State University, Sacramento. Transfer students seeking a minor in Chemistry must complete at least one upper division chemistry course at the University.

Program Requirements

Code	Title	Units
Core Requirements (39-43 Units)		
CHEM 1A	General Chemistry I [1,2]	5
CHEM 1B	General Chemistry II	5
CHEM 24	Organic Chemistry Lecture I	3
CHEM 25	Organic Chemistry Laboratory	3
CHEM 31	Quantitative Analysis	4
CHEM 124	Organic Chemistry Lecture II	3
MATH 30	Calculus I [1]	4
MATH 31	Calculus II	4
Select one of the following sequences:		8 - 12
PHYS 5A & PHYS 5B	General Physics: Mechanics, Heat, Sound General Physics: Light, Electricity and Magnetism, Modern Physics	
PHYS 11A & PHYS 11B & PHYS 11C	General Physics: Mechanics General Physics: Heat, Light, Sound, Modern Physics General Physics: Electricity and Magnetism	
Total Units		39-43

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Passing a placement exam or obtaining a passing grade of 'C' or better in CHEM 4 is required to enroll in CHEM 1A.

Concentration in Forensic Chemistry (25-28 units)

Code	Title	Units
CHEM 125	Advanced Organic Chemistry Laboratory	3
CHEM 142	Introduction to Physical Chemistry	4
CHEM 161	General Biochemistry	3
CHEM 162	General Biochemistry Laboratory	3
CRJ 1	Introduction to Criminal Justice and Society [1]	3
CRJ 154	Introduction to Physical Evidence	3
Select a minimum of 6 units from the following:		6 - 9
CHEM 110 & 110L	Inorganic Chemistry Lecture Advanced Inorganic Chemistry Laboratory	
CHEM 133	Chemical Instrumentation	
CHEM 141	Physical Chemistry Laboratory	
CHEM 164	Advanced Biochemistry Laboratory	
Total Units		25-28

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		39

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BA in Chemistry (General)

Units required for Major: 64-77
Total units required for BA: 120

Program Description

Three BA programs are available: One without a concentration (general) and two with concentrations (Biochemistry or Forensic Chemistry). The common requirements of the three programs are shown below under 'Core Requirements.'

Safety

Due to the potential hazards some chemicals may present, safety is an essential element of all Chemistry laboratory classes, including independent research. All students must adhere to the Department of Chemistry Laboratory Safety Policies (http://www.csus.edu/chem/safety.html). Failure to adhere to the Safety Policies may constitute grounds for withdrawal from a course and/or dismissal from the program.

Contact Lenses

Chemistry Department policy states that contact lenses are prohibited in all chemistry laboratories; prescription glasses should be worn instead. In addition, safety goggles are required in all laboratories. Laboratory aprons are recommended.

Advising

The Department believes advising of students is an important function. Members of the Chemistry Department who have a strong interest in advising have been selected to serve as advisors for students wishing to major in chemistry. Each represents a particular area of chemistry: analytical, inorganic, biochemistry, organic, and physical. Each Chemistry major will be assigned to one of these advisors when entering the Chemistry Department, coordinated to the area of each student's expressed interest.

Prerequisite Requirements

When enrolling in a course, it is required that the student will have met the specific prerequisites listed. A course listed as a prerequisite may have its own set of prerequisites. All must be met prior to enrolling in a chemistry course. Students not meeting the prerequisite requirements for a course will be administratively removed from the class.

Minimum Grade Requirements

In all courses required for the Chemistry major and minor, a minimum grade of 'C-' must be earned with the exception of CHEM 1A which requires a grade of C or better. A minimum grade of 'C-' is required in all prerequisite courses with the exception of CHEM 1A which requires a grade of C or better to meet the prerequisite requirement for CHEM 1B if a student has not achieved a 'C-' in all prerequisite courses for a particular chemistry course, the instructor of the course will administratively remove the student from class.

Transfer Majors and Minors

Transfer students majoring in Chemistry must complete at least three of the required courses in chemistry while fulfilling the residence requirements of California State University, Sacramento. Transfer students seeking a minor in Chemistry must complete at least one upper division chemistry course at the University.

Program Requirements

Code	Title	Units
Core Requirements (39-43 Units)		
CHEM 1A	General Chemistry I [1,2]	5
CHEM 1B	General Chemistry II	5
CHEM 24	Organic Chemistry Lecture I	3
CHEM 25	Organic Chemistry Laboratory	3
CHEM 31	Quantitative Analysis	4
CHEM 124	Organic Chemistry Lecture II	3
MATH 30	Calculus I [1]	4
MATH 31	Calculus II	4
Select one of the following sequences:		8 - 12
PHYS 5A & PHYS 5B	General Physics: Mechanics, Heat, Sound General Physics: Light, Electricity and Magnetism, Modern Physics	
PHYS 11A & PHYS 11B & PHYS 11C	General Physics: Mechanics General Physics: Heat, Light, Sound, Modern Physics General Physics: Electricity and Magnetism	
Total Units		39-43

[1] Course satisfies General Education (GE)/Graduation Requirement.

[2] Passing a placement exam or obtaining a passing grade of 'C' or better in CHEM 4 is required to enroll in CHEM 1A.

No Concentration (25 Units)

Code	Title	Units
CHEM 140A	Physical Chemistry Lecture I	3
CHEM 140B	Physical Chemistry Lecture II	3
MATH 32	Calculus III	4
Select additional courses to a minimum of 24 upper division units in Chemistry. Must include two laboratory courses. Graduate courses may be used as elective courses with instructor and department Chair permission. Elective courses should be selected in consultation with an advisor		15
Total Units		25

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3

Area B: Physical Universe and Its Life Forms (6 Units)	
B1 - Physical Science [2]	0
B2 - Life Forms	3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]	0
B4 - Math Concepts [2]	0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.	3
Area C: Arts and Humanities (12 Units)	
C1 - Arts	3
C2 - Humanities	3
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (12 Units)	
Area D Course	3
Area D Course	3
Area D Course	3
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	42

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BS in Biochemistry

Units required for Major: 81-85
Total units required for BS: 120

Program Description

The Bachelor of Science degrees are recommended for students intending to pursue graduate work in Chemistry or Biochemistry or those desiring a strong technical background for work in the chemical or biotechnology industry or other highly technical areas.

Safety

Due to the potential hazards some chemicals may present, safety is an essential element of all Chemistry laboratory classes, including independent research. All students must adhere to the Department of Chemistry Laboratory Safety Policies (http://www.csus.edu/chem/safety.html). Failure to adhere to the Safety Policies may constitute grounds for withdrawal from a course and/or dismissal from the program.

Contact Lenses

Chemistry Department policy states that contact lenses are prohibited in all chemistry laboratories; prescription glasses should be worn instead. In addition, safety goggles are required in all laboratories. Laboratory aprons are recommended.

Advising

The Department believes advising of students is an important function. Members of the Chemistry Department who have a strong interest in advising have been selected to serve as advisors for students wishing to major in chemistry. Each represents a particular area of chemistry: analytical, inorganic, biochemistry, organic, and physical. Each Chemistry major will be assigned to one of these advisors when entering the Chemistry Department, coordinated to the area of each student's expressed interest.

Prerequisite Requirements

When enrolling in a course, it is required that the student will have met the specific prerequisites listed. A course listed as a prerequisite may have its own set of prerequisites. All must be met prior to enrolling in a chemistry course. Students not meeting the prerequisite requirements for a course will be administratively removed from the class.

Minimum Grade Requirements

In all courses required for the Chemistry major and minor, a minimum grade of 'C-' must be earned with the exception of CHEM 1A which requires a grade of C or better. A minimum grade of 'C-' is required in all prerequisite courses with the exception of CHEM 1A which requires a grade of C or better to meet the prerequisite requirement for CHEM 1B if a student has not achieved a 'C-' in all prerequisite courses for a particular chemistry course, the instructor of the course will administratively remove the student from class.

Transfer Majors and Minors

Transfer students majoring in Chemistry must complete at least three of the required courses in chemistry while fulfilling the residence

requirements of California State University, Sacramento. Transfer students seeking a minor in Chemistry must complete at least one upper division chemistry course at the University.

Note: Students graduating with a Bachelor of Science Degree in Biochemistry will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Program Requirements

Code	Title	Units
Required Lower Division Courses (46-50 Units)		
BIO 1	Biodiversity, Evolution and Ecology [1]	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I [1,2]	5
CHEM 1B	General Chemistry II	5
CHEM 24	Organic Chemistry Lecture I	3
CHEM 25	Organic Chemistry Laboratory	3
CHEM 31	Quantitative Analysis	4
MATH 30	Calculus I [1]	4
MATH 31	Calculus II	4
Select one of the following sequences:		8 - 12
PHYS 5A & PHYS 5B	General Physics: Mechanics, Heat, Sound General Physics: Light, Electricity and Magnetism, Modern Physics	
PHYS 11A & PHYS 11B & PHYS 11C	General Physics: Mechanics General Physics: Heat, Light, Sound, Modern Physics General Physics: Electricity and Magnetism	
Required Upper Division Courses (29 Units)		
BIO 184	General Genetics	4
CHEM 124	Organic Chemistry Lecture II	3
CHEM 125	Advanced Organic Chemistry Laboratory	3
CHEM 141	Physical Chemistry Laboratory	3
CHEM 142	Introduction to Physical Chemistry	4
CHEM 160A	Structure and Function of Biological Molecules	3
CHEM 160B	Metabolism and Regulation of Biological Systems	3
CHEM 162	General Biochemistry Laboratory	3
CHEM 164	Advanced Biochemistry Laboratory	3
Upper Division Elective Courses (6 Units)		
Select 3 units of Chemistry from approved list:		3
CHEM 110	Inorganic Chemistry Lecture	
CHEM 128	Organic Synthesis	
CHEM 133	Chemical Instrumentation	
CHEM 198	Senior Research	
CHEM 250	Selected Topics in Chemistry	
CHEM 260	Protein Biochemistry	
CHEM 261	Nucleic Acid Chemistry	
Select 3 units of Biological Sciences from approved list:		3
BIO 121	Molecular Cell Biology	
BIO 139	General Microbiology	
BIO 144	Pathogenic Bacteriology	
BIO 149A	Immunology	
BIO 149B	Immunology and Serology Laboratory	
BIO 180	Advanced Molecular Biology	
BIO 220	Introduction to Scientific Inquiry	
BIO 222	Molecular Biology	
Total Units		81-85

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Passing a placement exam or obtaining a passing grade of 'C' or better in CHEM 4 is required to enroll in CHEM 1A.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		39

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3

American Institutions: U.S. Constitution & CA Government	3
Writing Intensive (WI)	3
Graduation Requirements (required by Sacramento State) (6 Units)	
English Composition II	3
Race and Ethnicity in American Society (RE)	3
Foreign Language Proficiency Requirement [2]	0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/
Note: Students with a declared major of BS in Biochemistry are exempt from the Foreign Language Graduation Requirement.

BS in Chemistry

Units required for Major: 77
Total units required for BS: 120

Program Description

The Bachelor of Science degrees are recommended for students intending to pursue graduate work in Chemistry or Biochemistry or those desiring a strong technical background for work in the chemical or biotechnology industry or other highly technical areas. The BS Chemistry degree is approved by the American Chemical Society.

Safety

Due to the potential hazards some chemicals may present, safety is an essential element of all Chemistry laboratory classes, including independent research. All students must adhere to the Department of Chemistry Laboratory Safety Policies (http://www.csus.edu/chem/safety.html). Failure to adhere to the Safety Policies may constitute grounds for withdrawal from a course and/or dismissal from the program.

Contact Lenses

Chemistry Department policy states that contact lenses are prohibited in all chemistry laboratories; prescription glasses should be worn instead. In addition, safety goggles are required in all laboratories. Laboratory aprons are recommended.

Advising

The Department believes advising of students is an important function. Members of the Chemistry Department who have a strong interest in advising have been selected to serve as advisors for students wishing to major in chemistry. Each represents a particular area of chemistry: analytical, inorganic, biochemistry, organic, and physical. Each Chemistry major will be assigned to one of these advisors when entering the Chemistry Department, coordinated to the area of each student's expressed interest.

Prerequisite Requirements

When enrolling in a course, it is required that the student will have met the specific prerequisites listed. A course listed as a prerequisite may have its own set of prerequisites. All must be met prior to enrolling in a chemistry course. Students not meeting the prerequisite requirements for a course will be administratively removed from the class.

Minimum Grade Requirements

In all courses required for the Chemistry major and minor, a minimum grade of 'C-' must be earned with the exception of CHEM 1A which requires a grade of C or better. A minimum grade of 'C-' is required in all prerequisite courses with the exception of CHEM 1A which requires a grade of C or better to meet the prerequisite requirement for CHEM 1B if a student has not achieved a 'C-' in all prerequisite courses for a particular chemistry course, the instructor of the course will administratively remove the student from class.

Transfer Majors and Minors

Transfer students majoring in Chemistry must complete at least three of the required courses in chemistry while fulfilling the residence requirements of California State University, Sacramento. Transfer students seeking a minor in Chemistry must complete at least one upper division chemistry course at the University.

Note: Students graduating with a Bachelor of Science Degree in Biochemistry will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Program Requirements

Code	Title	Units
Required Lower Division Courses (44 Units)		
CHEM 1A	General Chemistry I [1,2]	5
CHEM 1B	General Chemistry II	5
CHEM 24	Organic Chemistry Lecture I	3
CHEM 25	Organic Chemistry Laboratory	3
CHEM 31	Quantitative Analysis	4
MATH 30	Calculus I [2]	4
MATH 31	Calculus II	4
MATH 32	Calculus III	4
PHYS 11A	General Physics: Mechanics	4
PHYS 11B	General Physics: Heat, Light, Sound, Modern Physics	4
PHYS 11C	General Physics: Electricity and Magnetism	4
Required Upper Division Courses (33 Units)		
CHEM 110 & 110L	Inorganic Chemistry Lecture Advanced Inorganic Chemistry Laboratory	5
CHEM 124	Organic Chemistry Lecture II	3
CHEM 125	Advanced Organic Chemistry Laboratory	3
CHEM 133	Chemical Instrumentation	4
CHEM 140A	Physical Chemistry Lecture I	3
CHEM 140B	Physical Chemistry Lecture II	3
CHEM 141	Physical Chemistry Laboratory	3
CHEM 161	General Biochemistry	3
OR		

CHEM 160A	Structure and Function of Biological Molecules	
& CHEM 160B	Metabolism and Regulation of Biological Systems [3]	
Select additional courses from the following to a minimum of 33 upper division units in Chemistry. Elective courses should be selected in consultation with an advisor.		6
CHEM 128	Organic Synthesis	
CHEM 145/245	Applications of Computational Chemistry	
CHEM 160B	Metabolism and Regulation of Biological Systems	
CHEM 162	General Biochemistry Laboratory	
CHEM 164	Advanced Biochemistry Laboratory	
CHEM 198	Senior Research	
Total Units		77

[1] Passing a placement exam or obtaining a passing grade of 'C' or better in CHEM 4 is required to enroll in CHEM 1A.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

[3] Students taking CHEM 160A to fulfill the Biochemistry requirment MUST take BOTH CHEM 160A AND CHEM 160B.

Notes:

- An appropriate upper division mathematics or physics course may be used to fulfill Chemistry elective units (department permission required).
- Graduate courses (excepting CHEM 200, CHEM 299 and CHEM 500) may be used to fulfill Chemistry elective units (department permission required).

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		42

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/ **Note:** Students with a declared major of BS in Chemistry are exempt from the Foreign Language Graduation Requirement.

Chemistry Honors Program

Program Description

The purpose of the Chemistry Honors Program is to recognize and support the academic progress of our highest achieving students through undergraduate research culminating in a Chemistry Honors thesis. The Honors Concentration must be combined with one of the five undergraduate chemistry degrees: BA in Chemistry, BA in Chemistry (Biochemistry), BA in Chemistry (Forensic Chemistry), BS in Chemistry, or BS in Biochemistry. In order to fulfill the research requirement, students may engage in two semesters of research with a Chemistry faculty member at Sacramento State (e.g. enroll in CHEM 189A followed by CHEM 198) or they may use a summer research experience either on campus (e.g. NSM SURE, Russell-Forkey Research Award) or off campus (e.g. NSF-REU) in Chemistry or Biochemistry in place of CHEM 189A. All

Honors students must enroll in CHEM 198H and complete a Chemistry Honors Thesis.

Eligibility Requirements

'Native' Students:

- Declared as a Chemistry/Biochemistry major;
- Junior standing;
- Minimum 3.5 GPA overall and a minimum 3.33 GPA in Math/Science courses;
- Complete CHEM 1A and MATH 30 with a 'B' grade or higher; and
- Maximum of one repeated Math/Science course (in college career).

Transfer Students:

- Declared as a Chemistry/Biochemistry major;
- Junior standing;
- Entering minimum 3.5 GPA overall and a minimum 3.33 GPA in Math/Science courses (all institutions combined);
- Completed CHEM 1A and MATH 30 (or equivalents) with a 'B' grade or higher;
- Maximum of one repeated Math/Science course (in college career); and
- Completed at least 9 units at Sacramento State with a minimum 3.33 GPA, including any one chemistry class which counts towards your chosen degree.

Admission Requirements

Admission to the program for eligible students requires nomination by a faculty member and review and approval by a department committee.

Minimum GPA and Additional Requirements

For students to remain in the program, they must:

1. maintain a minimum 3.5 GPA overall and a minimum 3.33 GPA in Math/Science courses; and
2. have no repeats in Math/Science courses.

Program Requirements

The curriculum of the Honors Program is designed to be coupled with the BA or BS degree programs. The Honors Program requires the following courses:

Code	Title	Units
Required Upper Division Courses (6 Units)		
CHEM 198	Senior Research	3
CHEM 198H	Chemistry Honors Thesis	3

Minor in Chemistry

Units required for Minor: 24

Program Description

Chemistry is the area of science in which the composition, structure, properties, and reactions of substances are studied.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Chemistry minor.

Program Requirements

In consultation with an advisor, choose 24 units of chemistry coursework, 6 units must be upper division courses in chemistry.

Note: A course in quantitative analytical chemistry and a lower division organic laboratory course must be completed as part of the minor.

MS in Chemistry

Total units required for MS: 30

Program Description

The graduate programs in the Department of Chemistry provide students with advanced study in synthesis, separation, and analysis of molecules with an emphasis on developing research skills in experimental and computational chemistry and in chemistry education. The graduate curriculum prepares students for careers in industry and teaching and for entry into PhD and professional programs.

Admission Requirements

Admission as a classified graduate student in the Department of Chemistry requires:

- a BA degree in chemistry, biochemistry or its equivalent as determined by the graduate committee;
- a minimum 2.5 GPA overall, in the last 60 units, and in chemistry, biochemistry, math, and physics courses;
- two letters of recommendation from persons qualified to judge the applicant's potential for successful graduate study
- a personal statement describing the applicant's motivation for seeking a master's degree, why the Sacramento State Chemistry department was selected for pursuing this degree, and the area of advanced study within chemistry, biochemistry or education research the applicant plans to focus

Students desiring to apply to the chemistry graduate program should first examine the chemistry department's web page for basic requirements and deadlines and then contact the Chemistry department graduate coordinator or department Chair for further information if needed. International students should also contact the Office of Global Education for specific application requirements for international applicants.

Admission Procedures

Students desiring to apply to the chemistry graduate program should first contact the Chemistry Department Graduate Coordinator or Department Chair. Information about the graduate program will be discussed with you.

In addition to a Departmental application, applicants must also complete a separate university application by the posted application deadline for the term applying. For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/. The university application requires:

- an online application for admission; and
- two sets of **official** transcripts **from all colleges and universities attended**, other then Sacramento State.

Approximately six weeks after receipt of all items listed, an admission decision will be mailed to the applicant.

Placement Examinations

All new graduate students must take two placement exams, in organic and physical chemistry, administered at the beginning of each semester. These exams cover topics commonly found in undergraduate courses. Exam results are used to determine undergraduate deficiencies in these areas of chemistry. All deficiencies must be removed by either taking and passing with a grade of 'B' an appropriate undergraduate course or by taking again and passing the placement exam. A placement exam can be taken only twice; if the exam is not passed after the second attempt, the appropriate undergraduate course must be completed with a minimum grade of 'B' in the first attempt.

Course Requirements

The program centers on a core of four courses designed to increase a student's knowledge and skills in applications of analytical techniques, general instrumentation techniques, chemical separation techniques, and analysis of spectra with applications in the field of biochemistry and organic chemistry primarily. Electives are offered to permit students to expand further their knowledge and skills in chemistry. A minimum overall and semester GPA of 3.00 must be maintained to sustain good standing in the graduate program. A grade of 'C' or better in individual courses is required for graded work to be credited toward fulfillment of the master's degree. Students not meeting these requirements are subject to probationary status and potential disqualification from the program. In addition, students must regularly attend seminars offered approximately once a week each semester. Each student will give one seminar during his/her tenure as a graduate student that is on a literature topic not related to his/her thesis topic and another on his/her thesis results. Participation in seminar expands a student's knowledge of current research in chemistry and also assists in developing his/her oral presentation skills.

Thesis/Research

All students are required to complete a thesis involving original research. The research may be conducted on campus with a chemistry faculty member or at an employer's work site providing the work involves producing a new contribution to the field of chemistry. Research conducted at a work site requires a supervising chemistry faculty member. The work site mentor and project must be approved by the Graduate Committee.

Advising

Following admission to the chemistry graduate program, students are advised by the graduate coordinator and by the faculty thesis supervisor. Students must consult with three faculty members before deciding on a thesis advisor. Students who are fully qualified upon admission and make the expected progress can normally finish the degree in two years

Financial Aid

Financial aid is available. Please contact the Financial Aid Office for more information (1006 Lassen Hall, www.csus.edu/faid (http://www.csus.edu/faid/)).

Employment

Qualified graduate students may be hired for a limited number of positions as teaching associates (TA). TAs teach undergraduate chemistry laboratories and discussions. Eligibility requirements include: classified status, minimum cumulative GPA 3.0, good English communication skills, passing score on a general chemistry examination. Continuing students desiring support as a TA will be evaluated on the basis of past performance as a TA and academic record as a graduate student in the program. Contact the Department Chair for current employment information.

Safety

Due to the potential hazards some chemicals may present, safety is an essential element of all Chemistry laboratory classes, including independent research. All students must adhere to the Department of Chemistry Laboratory Safety Policies (http://www.csus.edu/chem/safety.html). Failure to adhere to the Safety Policies may constitute grounds for withdrawal from a course and/or dismissal from the graduate program.

Contact Lenses

Chemistry Department policy states that contact lenses are prohibited in all chemistry laboratories; prescription glasses should be worn instead. In addition, safety goggles are required in all laboratories. Laboratory aprons are recommended.

Laboratory Fees

Students enrolling in chemistry laboratory courses or supervisory courses involving laboratory research are required to pay a laboratory fee for each course. In addition, if a student breaks an item in a laboratory, s/he is required to replace it or pay a breakage cost. An administrative hold is placed on a student's academic record if either is not paid. Details are given at the first class meeting.

Repeating a Chemistry Course

Students repeating a chemistry course must repeat an equivalent course in both units and content.

Minimum Units and Grade Requirement for the Degree

Units required for the MS: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

After completing at least 40 percent of the graduate degree coursework with an overall GPA of 3.0 or higher, a student may submit an application for Advancement to Candidacy, which indicates the proposed program of graduate study is acceptable to the student, faculty advisor, thesis committee, and the Chemistry graduate coordinator. This procedure may begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements
- met English proficiency requirements
- completed at least 12 units of 200-level courses (including CHEM 200) with a minimum 3.0 GPA;
- obtained approval of the thesis project by the thesis advisor and thesis committee. Students obtain thesis project approval through submission of a formal thesis project proposal and an oral presentation of the project to the thesis committee.
- successfully completed a literature seminar presentation

Program Requirements

Code	Title	Units
Required Core Courses (11 Units)		
CHEM 200	Research Methods in Chemistry	3
CHEM 220	Spectrometric Identification of Compounds	3
CHEM 230	Separation Methods in Chemistry	3
Seminar in Chemistry - Semester 1		
CHEM 294	Seminar In Chemistry	0.5
Seminar in Chemistry - Semester 2		
CHEM 294	Seminar In Chemistry	0.5
Seminar in Chemistry - Semester 3		
CHEM 294	Seminar In Chemistry	0.5
Seminar in Chemistry - Semester 4		
CHEM 294	Seminar In Chemistry	0.5
Electives (9 Units) [1]		
Select 9 units from the following:		9
CHEM 226	Physical Organic Chemistry	
CHEM 245	Applications of Computational Chemistry	
CHEM 250	Selected Topics in Chemistry	
CHEM 251	Topics in Interdisciplinary Chemistry	
CHEM 252	Topics in Synthetic Chemistry	
CHEM 253	Topics in Applied Chemistry	
CHEM 254	Topics in Physical Chemistry	
CHEM 255	Topics in Chemistry Education	
CHEM 260	Protein Biochemistry	
Completion Requirements (10 Units)		
CHEM 299	Special Problems	6
CHEM 500	Culminating Experience	4
Total Units		30

[1] Graduate or upper division courses in appropriate areas (BIO, GEOL, PHYS, ENVS) may be used upon approval by graduate advisor and department chair. A maximum of 2 units of upper division undergraduate coursework may be used toward fulfilling electives.

MS in Chemistry (Biochemistry)

Total units required for MS: 30

Program Description

The graduate programs in the Department of Chemistry provide students with advanced study in synthesis, separation, and analysis of molecules with an emphasis on developing research skills in experimental and computational chemistry and in chemistry education. The graduate curriculum prepares students for careers in industry and teaching and for entry into PhD and professional programs.

Admission Requirements

Admission as a classified graduate student in the Department of Chemistry requires:

- a BA degree in chemistry, biochemistry or its equivalent as determined by the graduate committee;
- a minimum 2.5 GPA overall, in the last 60 units, and in chemistry, biochemistry, math, and physics courses;
- two letters of recommendation from persons qualified to judge the applicant's potential for successful graduate study
- a personal statement describing the applicant's motivation for seeking a master's degree, why the Sacramento State Chemistry department was selected for pursuing this degree, and the area of advanced study within chemistry, biochemistry or education research the applicant plans to focus

Students desiring to apply to the chemistry graduate program should first examine the chemistry department's web page for basic requirements and deadlines and then contact the Chemistry department graduate coordinator or department Chair for further information if needed. International students should also contact the Office of Global Education for specific application requirements for international applicants.

Admission Procedures

Students desiring to apply to the chemistry graduate program should first contact the Chemistry Department Graduate Coordinator or Department Chair. Information about the graduate program will be discussed with you.

In addition to a Departmental application, applicants must also complete a separate university application by the posted application deadline for the term applying. For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/. The university application requires:

- an online application for admission; and
- two sets of **official** transcripts **from all colleges and universities attended**, other then Sacramento State.

Approximately six weeks after receipt of all items listed, an admission decision will be mailed to the applicant.

Placement Examinations

All new graduate students must take two placement exams, in organic and physical chemistry, administered at the beginning of each semester. These exams cover topics commonly found in undergraduate courses. Exam results are used to determine undergraduate deficiencies in these areas of chemistry. All deficiencies must be removed by either taking and passing with a grade of 'B' an appropriate undergraduate course or by taking again and passing the placement exam. A placement exam can be taken only twice; if the exam is not passed after the second attempt, the appropriate undergraduate course must be completed with a minimum grade of 'B' in the first attempt.

Course Requirements

The program centers on a core of four courses designed to increase a student's knowledge and skills in applications of analytical techniques, general instrumentation techniques, chemical separation techniques, and analysis of spectra with applications in the field of biochemistry and organic chemistry primarily. Electives are offered to permit students to expand further their knowledge and skills in chemistry. A minimum overall and semester GPA of 3.00 must be maintained to sustain good standing in the graduate program. A grade of 'C' or better in individual courses is required for graded work to be credited toward fulfillment of the master's degree. Students not meeting these requirements are subject to probationary status and potential disqualification from the program. In addition, students must regularly attend seminars offered approximately once a week each semester. Each student will give one seminar during his/her tenure as a graduate student that is on a literature topic not related to his/her thesis topic and another on his/her thesis

results. Participation in seminar expands a student's knowledge of current research in chemistry and also assists in developing his/her oral presentation skills.

Thesis/Research

All students are required to complete a thesis involving original research. The research may be conducted on campus with a chemistry faculty member or at an employer's work site providing the work involves producing a new contribution to the field of chemistry. Research conducted at a work site requires a supervising chemistry faculty member. The work site mentor and project must be approved by the Graduate Committee.

Advising

Following admission to the chemistry graduate program, students are advised by the graduate coordinator and by the faculty thesis supervisor. Students must consult with three faculty members before deciding on a thesis advisor. Students who are fully qualified upon admission and make the expected progress can normally finish the degree in two years

Financial Aid

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Employment

Qualified graduate students may be hired for a limited number of positions as teaching associates (TA). TAs teach undergraduate chemistry laboratories and discussions. Eligibility requirements include: classified status, minimum cumulative GPA 3.0, good English communication skills, passing score on a general chemistry examination. Continuing students desiring support as a TA will be evaluated on the basis of past performance as a TA and academic record as a graduate student in the program. Contact the Department Chair for current employment information.

Safety

Due to the potential hazards some chemicals may present, safety is an essential element of all Chemistry laboratory classes, including independent research. All students must adhere to the Department of Chemistry Laboratory Safety Policies (http://www.csus.edu/chem/safety.html). Failure to adhere to the Safety Policies may constitute grounds for withdrawal from a course and/or dismissal from the graduate program.

Contact Lenses

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Laboratory Fees

Students enrolling in chemistry laboratory courses or supervisory courses involving laboratory research are required to pay a laboratory fee for each course. In addition, if a student breaks an item in a laboratory, s/he is required to replace it or pay a breakage cost. An administrative hold is placed on a student's academic record if either is not paid. Details are given at the first class meeting.

Repeating a Chemistry Course

Students repeating a chemistry course must repeat an equivalent course in both units and content.

Minimum Units and Grade Requirement for the Degree

Units required for the MS: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

After completing at least 40 percent of the graduate degree coursework with an overall GPA of 3.0 or higher, a student may submit an application for Advancement to Candidacy, which indicates the proposed program of graduate study is acceptable to the student, faculty advisor, thesis committee, and the Chemistry graduate coordinator. This procedure may begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements
- met English proficiency requirements
- completed at least 12 units of 200-level courses (including CHEM 200) with a minimum 3.0 GPA;
- obtained approval of the thesis project by the thesis advisor and thesis committee. Students obtain thesis project approval through submission of a formal thesis project proposal and an oral presentation of the project to the thesis committee.
- successfully completed a literature seminar presentation

Program Requirements

Code	Title	Units
Required Courses (11 Units)		
CHEM 200	Research Methods in Chemistry	3
CHEM 260	Protein Biochemistry	3
CHEM 261	Nucleic Acid Chemistry	3
Seminar in Chemistry - Semester 1		
CHEM 294	Seminar In Chemistry	0.5
Seminar in Chemistry - Semester 2		
CHEM 294	Seminar In Chemistry	0.5
Seminar in Chemistry - Semester 3		
CHEM 294	Seminar In Chemistry	0.5
Seminar in Chemistry - Semester 4		
CHEM 294	Seminar In Chemistry	0.5
Electives (9 Units)		
Select 9 units from the following: [1]		9
CHEM 220	Spectrometric Identification of Compounds	
CHEM 226	Physical Organic Chemistry	
CHEM 230	Separation Methods in Chemistry	
CHEM 245	Applications of Computational Chemistry	
CHEM 250	Selected Topics in Chemistry	
CHEM 251	Topics in Interdisciplinary Chemistry	
CHEM 252	Topics in Synthetic Chemistry	
CHEM 253	Topics in Applied Chemistry	
CHEM 254	Topics in Physical Chemistry	
CHEM 255	Topics in Chemistry Education	
Completion Requirements (10 Units)		
CHEM 299	Special Problems	6

CHEM 500	Culminating Experience	4
Total Units		30

[1] Graduate or upper division courses in appropriate areas (BIO, GEOL, PHYS, ENVS) may be used upon graduate advisor and department chair. A maximum of 2 units of upper division undergraduate coursework may be used toward fulfilling electives.

Subject Matter Program (Chemistry)

Units required for the Subject Matter Program: 47-57

Program Description

The Science Subject Matter Program (in biology, chemistry, physics, or foundational level general science) is designed to meet the California Commission on Teacher Credentialing (CTC) subject matter requirement for students to enter a California Single Subject teaching credential program. Meeting the subject matter requirement is a credential program admission requirement, and can be met either through a subject matter program (such as those described below) or by taking a state approved content exam (currently the California Subject Exam for Teachers, the CSET). In order to meet the subject matter obtain a California K-12 Teaching Credential, a program requirement, all courses must be completed with a grade of 'C-' or better. In order to teach public school in California, you must also complete a teaching credential program.

Subject matter programs are not degrees or concentrations; instead they are a series of courses that allow a student to meet the requirements for admission to a teaching credential program. Students must also complete a BA or BS degree (with any major) to fulfill the credential requirements.

Science majors who intend to pursue a teaching credential should see a faculty advisor or the department chair in the department of their academic major. It is recommended that they do so early as it is critical that their science coursework be carefully planned and coordinated to include the required subject matter program courses. In addition, students are encouraged to become involved with education related activities like grading, assisting in labs, tutoring K-12 students, and visiting schools; please speak with the subject matter advisors in your area for more information.

Program Requirements

Code	Title	Units
Required Courses (47-57 Units)		
ASTR 4A	Introduction to the Solar System	3
ASTR 4B	Introduction to Stars, Galaxies, and Cosmology	3
Choose one of the following:		4 - 10
BIO 1 & BIO 2	Biodiversity, Evolution and Ecology Cells, Molecules and Genes [1]	
BIO 10 & BIO 15L	Basic Biological Concepts Laboratory Investigations in Biology	
CHEM 1A	General Chemistry I [1]	5
CHEM 1B	General Chemistry II	5
CHEM 24	Organic Chemistry Lecture I	3
CHEM 31	Quantitative Analysis	4
ENVS 10	Introduction to Environmental Science [1]	3
GEOL 10	Physical Geology [1]	3
Choose one of the following		8 - 12
PHYS 5A & PHYS 5B	General Physics: Mechanics, Heat, Sound General Physics: Light, Electricity and Magnetism, Modern Physics [1]	
PHYS 11A & PHYS 11B & PHYS 11C	General Physics: Mechanics General Physics: Heat, Light, Sound, Modern Physics General Physics: Electricity and Magnetism	
CHEM 140A	Physical Chemistry Lecture I	3
CHEM 160A	Structure and Function of Biological Molecules	3
or CHEM 161	General Biochemistry	
Total Units		47-57

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Geography

College of Natural Sciences and Mathematics

Program Description

Geography students at Sacramento State explore Earth's natural and cultural environments using methods from the natural sciences and the social sciences. They study climate, weather, landforms, water resources, and plants and animals, as well as peoples, societies, economies, and cities. These phenomena overlap in intricate ways, giving rise to distinctive places and regions. Geography's approach emphasizes Earth's spatial relationships and patterns, and the processes that govern them, whether found in nature or in human behavior.

Students work with quantitative and qualitative data from a variety of sources, including published censuses and maps, aerial imagery, field and lab work, surveys, and interviews. They use a variety of tools, including Global Positioning Systems (GPS), Geographic Information Systems (GIS), and other computer applications to collect, display, and analyze spatial data. Geography students study and address complex issues, especially those with a human-environment interface, such as climate change, resource management, urban growth and design, globalization, immigration, ethnic identity, and territorial conflict. Geographical understanding is applied at different scales, from the local to the global, and regional expertise is cultivated.

Lower division offerings in physical geography, cultural geography, and geographical techniques introduce students to the discipline. At the upper division level, students can choose among regional classes, topical classes on subjects from meteorology to transportation, and technique classes that include GIS, map making, quantitative methods, remote sensing, and field work. Majors select a concentration in a geographic subfield. Although not required, the department encourages students to take elective courses and/or pursue a minor complementary to their geographical interests. It also encourages and facilitates students going on Education Abroad.

Degree Programs

BA in Geography (Geographic Information Systems and Analysis) (p. 835)

BA in Geography (Human Geography) (p. 836)

BA in Geography (Metropolitan Area Planning) (p. 838)

BA in Geography (Physical Geography) (p. 840)

Minor in Geography (p. 843)

Minor in Geographic Information Systems (p. 842)

Certificate in Pre-Planning (Metropolitan Planning or Resource Planning) (p. 842)

Special Features

- Numerous internships and jobs in the Sacramento area, including many with state and local government
- Many opportunities for field work in a variety of settings
- A senior project class in which each student conducts his/her own research
- A small major allowing for lots of interaction with faculty and fellow students, including attendance at state and regional professional meetings
- Various pathways to complete the major, providing flexibility and the opportunity to make efficient progress toward graduation

Career Possibilities

Geographer · Cartographer · Climatologist · Resource Scientist · Meteorologist · Geospatial Intelligence Professional · Environmental Scientist · Geographic Information System Specialist · Geographic Consultant · Surveyor · Sustainability Coordinator · Water Resources Analyst · Redevelopment Specialist · Environmental Planner · Energy Analyst · Foreign Area Specialist · Land Economist · Recreation Planner · Locational Analyst · Environmental Education Specialist · Conservationist · Urban Planner · Transportation Planner · Aerial Photo Interpreter · Remote Sensing Specialist · Community Development Specialist · Land Use Planner · Demographer · Cultural Resources Manager · Air Resources Specialist · Real Estate Research Analyst · Pedestrian and Bicycle Advocate · Teacher· Recycling Coordinator · Route Planner · Habitat Manager

Contact Information

Thomas Krabacher, Department Chair
Lori Phillips, Administrative Support Coordinator
Amador Hall 550
(916) 278-6109
Department of Geography Website (http://www.csus.edu/geog/)

Faculty

DATEL, ROBIN E.

DILLON, MARSHA J.

GERVAIS, BRUCE R.

KRABACHER, THOMAS S.

PATTERSON, ANNA

ROBERTS, MILES

SCHMANDT, MICHAEL J.

SCHMIDTLEIN, MATHEW C.

WANKET, JAMES A.

GEOG 1. Physical Geography: The Distribution of Natural Phenomena. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

Introductory study of the distribution over the face of the earth of selected aspects of climate, plant cover, soils, and landforms and of processes and conditions giving rise to these distributions. The use of maps as communicative devices in comparative analysis and study of distribution and processes.

GEOG 2. Cultural Geography. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Consideration of the diversity of patterns of land use, settlement and movement established and evolved by humans as a result of the interaction of cultural and physical factors; emphasis on student use of maps and other tools of geographic presentation for analyzing the nature, variation and distribution of cultural features of the earth's surface.

GEOG 2H. Cultural Geography - Honors. 3 Units
Prerequisite(s): Open to Honors students only.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Consideration of the diversity of patterns of land use, settlement and movement established and evolved by humans as a result of the interaction of cultural and physical factors; emphasis on student use of maps and other tools of geographic presentation for analyzing nature, variation and distribution of cultural features of the earth's surface. **Note:** This is a special offering designed as part of the G.E. Honors program.

GEOG 3. Introduction to Maps and Geographic Technologies. 3 Units
Term Typically Offered: Spring only

Introduction to maps, map concepts, and geographic technologies. Maps are the most effective way to communicate spatial data, and introduces students to the quickly changing world of maps (both hard-copy and digital) and geographic technologies including map and aerial photograph interpretation, spreadsheet operations, introductory statistics, global positioning systems (GPS), Internet mapping, satellite and aerial images, and geographic information systems (GIS) that aid in data collection, analysis, and presentation. Lecture two hours; laboratory two hours.

GEOG 5. Violent Weather/Changing Atmosphere. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Introduction to meteorological and climatological principles and concepts. These principles will be used to examine severe atmospheric phenomena, including hurricanes, tornadoes, thunderstorms, lightning, destructive winds, severe storms, heat waves, droughts and floods, particularly in relation to human-caused climate change and the effects of these phenomena on humanity.

GEOG 11. Laboratory in Physical Geography. 1 Unit
Prerequisite(s): GEOG 1; may be taken concurrently.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B3)
Term Typically Offered: Fall, Spring, Summer

Makes the ideas and relationships of introductory physical geography more clear by observation and experiment. Use is made of maps, globes, models, meteorological instruments and records, satellite photos and observations of the local scene. Laboratory, three hours.

GEOG 100. Themes In World Geography. 3 Units
Prerequisite(s): Junior or Senior class standing or instructor permission.
Term Typically Offered: Fall, Spring

Study of the content of geography with a consideration of basic concepts and methods. Emphasis is on patterns and relationships of the elements and manifestations of physical and cultural geography, including both topical and regional discussions.

GEOG 102. Ideas and Skills in Geography. 3 Units
Prerequisite(s): GEOG 1 or GEOG 2 or GEOG 3 or GEOG 11.
Term Typically Offered: Fall only

Study and discussion of geographic ideas, including the history of the discipline. Introduction to library resources appropriate to geographic inquiry. Practice in geographic descriptive and analytical writing and research. Extensive use of maps. Required of Geography majors in the junior year. Lecture three hours.

GEOG 105. Computer Cartography. 3 Units
Prerequisite(s): GEOG 109 or instructor permission.
Term Typically Offered: Fall only

Preparation of maps and diagrams, emphasizing thematic map design using various mapping and design programs. Detailed study of important map projections. Passing score on ELM exam recommended. Lecture one hour, laboratory six hours.

GEOG 107. Remote Sensing. 3 Units
Term Typically Offered: Spring only

Aerial photographs and scanned satellite images, emphasis on the former. Topics include the electromagnetic spectrum, cameras, films, image geometry as related to planimetric and topographic mapping, multispectral techniques, and interpretation of imagery, emphasizing land use and landforms. Lecture two hours; laboratory three hours.

GEOG 109. Geographic Information Systems. 3 Units
Term Typically Offered: Fall, Spring, Summer

Introduction to GIS, including history and overview of current applications; the nature of spatial data; geographic data structures, acquisition, analysis, and display of geographic data. Lab exercises use various computers and include both raster- and vector-based GIS systems. Lecture two hours; laboratory three hours.

GEOG 110. Advanced Geographic Information Systems. 3 Units
Prerequisite(s): GEOG 109 or instructor permission.
Term Typically Offered: Fall only

Builds on the introduction to the hardware, software and operations of GIS offered with the previous courses, providing the essentials required by a beginning GIS analyst or applications support specialist. Emphasis will be placed on problem solving strategies in the context of GIS projects.

GEOG 111. Elements Of Meteorology. 3 Units
Prerequisite(s): GEOG 1 or instructor permission.
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Basic concepts of weather and weather elements: structure and general circulation of the atmosphere, earth's heat and water balance, precipitation, air masses and fronts, air pollution meteorology. Some micrometeorological concepts with application to air pollution, agriculture, and similar problems.

GEOG 113. Climate. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall only

Study of the distribution of heat and moisture over the earth's surface. Basic processes by which heat and moisture acquire unequal distributions in space and time. Classification of climate. Climatic change. Climate models.

GEOG 115. Biogeography. 3 Units
Prerequisite(s): GEOG 1 or instructor permission
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall only

Introduction to the geographic distribution of life. Communities and biomes, changing continents and climates, dispersal, colonization, extinction, life on islands, and past and present human impacts are examined.
Note: Field trip required.

Field trip(s) may be required.

GEOG 116. Global Climate Change. 3 Units
Prerequisite(s): GEOG 1 or instructor permission.
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Spring only

Study of past climate change and the techniques with which they are reconstructed. Focus on the various temporal scales at which climate change operates. Spatial variability of past, present and future climate changes. Anthropogenic climate change in the context of natural climate variability.

GEOG 117. Landforms. 3 Units
Prerequisite(s): GEOG 1 or instructior permission.
Term Typically Offered: Fall only

Study of the surface forms of the land with particular attention to their distribution and to the accompanying distribution of natural forces and processes which have brought the landforms into being. Study of landforms in the context of Quaternary environmental change. Identification and analysis of landforms using maps and other spatial data. Lecture three hours.

GEOG 118. Earth Transformed. 3 Units
Term Typically Offered: Fall, Spring

Explores the evolving human role in transforming Earth's physical environments. Topics range from prehistoric extinction's to modern environmental problems in select regions. Emphasis is placed on wide-ranging effects of resource use and disposal, with particular reference to atmosphere and biological problems and sustainable solutions.

GEOG 119. Visualizing Global Environments. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Using current geospatial technologies, such as remote sensing and GIS, the course provides an introduction to the distributions of climate, plant cover, soils, and landforms over the face of the earth. While examining processes and conditions that cause these distributions, students will also explore the methods and techniques that let us visualize these distributions, and use maps as communicative devices in our explorations of these topics.

GEOG 121. United States and Canada. 3 Units
Term Typically Offered: Fall, Spring

Present distribution and historical development of population, land use and industry in the U.S. and Canada in relation to regional variations in the physical environment and cultural heritage.

GEOG 125. Geography Of East Asia. 3 Units
Term Typically Offered: Fall, Spring

Geographic setting and nature of Far Eastern civilization; origins, development and present outlines of settlement; cultures, resource use, economic structures, population, levels of technological achievement, and land use in China, Japan and Korea.

GEOG 127. Geography Of Africa. 3 Units
Term Typically Offered: Spring only – odd years

Emphasis is on sub-Saharan Africa with consideration given to selected topics such as population problems, industrialization, regional groupings, transportation, and internal and external relationships.

GEOG 128. Geography Of Europe. 3 Units
Term Typically Offered: Spring only – even years

Survey of Europe with emphasis on its physical environment, contemporary demographic, economic, and ethnic patterns, and the changing political landscape. Consideration will also be given to Europe's historic and present-day links with other world regions, and to the geographic basis for many of the social, political, economic, and environmental challenges facing contemporary Europe.

GEOG 129A. Special Topics in Regional Geography A. 3 Units
Term Typically Offered: Fall only

Geographic survey of a selected region with emphasis on its physical environment and selected economic, demographic, political, and cultural patterns. Consideration may include its connection to other world regions and its role in current events. The specific region is identified by the Geography Department at scheduling. This course and GEOG 129B and GEOG 129C may be taken for up to 9 units.

GEOG 129B. Special Topics in Regional Geography B. 3 Units
Geographic survey of a selected region with emphasis on its physical and human geography. Topics may include climate, landforms, vegetation, economics, demographics, culture, and the region's connection to other world regions and its role in current events. The specific region is identified by the Geography Department at scheduling. This course and GEOG 129A and GEOG 129C may be taken for up to 9 units.

GEOG 129C. Special Topics in Regional Geography C. 3 Units
A selected world region is the focus of this course that geographically surveys the region's physical and human environment. Potential topics include climate, landforms, vegetation, economics, demographics, culture, and more. The specific region is identified by the Geography Department at scheduling. This course and GEOG 129A and GEOG 129B may be taken for up to 9 units.

GEOG 131. California. 3 Units
Term Typically Offered: Fall only

Study of landforms, climate, vegetation, population distribution and change, industry, transportation, water, energy, and agriculture in California.

GEOG 141. Geography of Economic Activity. 3 Units
Term Typically Offered: Fall only – even years

Spatial organization of man's activities related to production, exchange and consumption. Attention is given to resource development and the areal variations of factors affecting it, to concepts of spatial interaction and to spatial aspects of agricultural, industrial and urban land use. An examination of problems related to regional economic development. Changing perceptions of spatial organization of economic activities is also considered. Emphasis is on both theoretical framework and case study applications.

GEOG 143. Environmental Hazards and Society. 3 Units
Term Typically Offered: Spring only – odd years

Focuses on how a place's social systems and physical systems intersect to create hazards. Considers the development of various theoretical approaches to hazards; risk perception and societal responses to hazard events; the history of U.S. disaster response; and approaches to risk/vulnerability assessment.

GEOG 145. Population Geography. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Spatial patterns of population numbers and characteristics; migration and spread of ideas; potential for economic and cultural developments.

GEOG 147. Urban Geography. 3 Units
Term Typically Offered: Fall only – odd years

Consideration of cities as centers of human activity from the rise of urban life in the Old and New Worlds to the present day patterns of metropolis and megalopolis. The functions and interactions of cities in Earth's limited space and on Earth's limited resources are studied historically and crossculturally. Also examined are changing perceptions of the urban phenomenon and attempts to enhance the quality of urban life.

GEOG 148. Urban and Regional Planning. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the theory and practice of urban and regional planning. Topics include the history of planning, the development of comprehensive and land use plans, growth management, and transportation and environmental planning. Includes guest speakers from the planning community as well as the opportunity to work on a project with a community organization or government agency to put into practice what is discussed in class.

GEOG 149. Transportation Geography. 3 Units
Prerequisite(s): GEOG 141, GEOG 147, or GEOG 148 or instructor permission.
Term Typically Offered: Spring only – odd years

Explores the geography of transportation using both theory and applications, quantitative and qualitative methods. Topics include the history and economic importance of transportation systems for all major modes; their political, social, and environmental aspects; and basic analytical methods, including accessibility dynamics, network analysis, and spatial interaction models. Focus will be on the U.S., with frequent reference to local issues, though material will be drawn on from around the world.

GEOG 150. Programming for GIS. 3 Units
Prerequisite(s): GEOG 109
Term Typically Offered: Fall, Spring

This course is an introduction to programming and scripting for intermediate GIS users, using an object-oriented programming approach. You will develop and write clearly documented and structured geoprocessing programs using the Python programming language and ArcPy, a site package (library) for ArcGIS geoprocessing tools.

GEOG 151. Programming for GIS II. 3 Units
Prerequisite(s): GEOG 150 or instructor approval.
Term Typically Offered: Fall, Spring

This is an advanced course in programming and scripting for intermediate to advanced GIS users, using an object-oriented programming approach. You will develop well-documented and structured geoprocessing programs for data management, processing, and automation in the Python programming language, leveraging libraries such as ArcPy and GDAL.

GEOG 161. California's Water Resources. 3 Units
Term Typically Offered: Spring only

Study of the location and nature of the state's surface and underground water, including development by government agencies, water needs of cities, farms, recreation and wildlife, implications of water rights, water marketing and conservation, and management of floods, droughts and pollution.

GEOG 163. Applied GIS. 3 Units
Prerequisite(s): GEOG 109.
Term Typically Offered: Fall only

Introduction to developing a GIS project, including planning, database research, proposal writing, analysis and evaluation. Lecture 2 hours; Laboratory 3 hours.

GEOG 181. Quantitative Methods in Geography. 3 Units
Term Typically Offered: Spring only

Introduction to techniques useful in the analysis of spatial distributions and other geographic phenomena: basic aspatial descriptive and inferential techniques, correlation, regression, and spatial inferential techniques.

GEOG 182. Qualitative Methods in Geography. 3 Units
Prerequisite(s): GEOG 102
Students learn and conduct an array of observational and qualitative research techniques used in human geography, including landscape observation, participant observation, interviews, surveys and questionnaires, group discussions (focus groups, charrettes, etc.), visual methods, archival research, and analyzing some of the writing styles commonly used in qualitative research. One learns the relative strengths and weaknesses of these techniques, their appropriate applications, ways to combine them in mixed-methods research, and how to analyze and represent the data.

GEOG 190. Senior Research Seminar in Geography. 3 Units
Prerequisite(s): GEOG 1, GEOG 2, GEOG 3, GEOG 102; senior standing, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X; instructor permission.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Spring only

Writing-intensive capstone course requiring students to complete independent research projects displaying their mastery of geography's content and methods. Projects undertaken in a given semester share a common thematic and/or regional focus. Students use bibliographic, field, spatial analytic, graphic, and verbal skills. Context for projects is provided by a review of the recent history of the discipline. Lecture/discussion three hours.

GEOG 192A. Geography Field Experience A. 1 - 2 Units
Prerequisite(s): one geography course or instructor permission.
Term Typically Offered: Fall, Spring

A particular geographical area is explored and studied via beginning-level field observation. Emphasis may be placed on physical features, cultural features, or both.
Credit/No Credit

GEOG 192B. Geography Field Experience B. 1 - 2 Units
Prerequisite(s): one geography course or instructor permission.
Term Typically Offered: Fall, Spring

A particular geographical area is explored and studied via intermediate-level field observation. Emphasis may be placed on physical features, cultural features, or both.
Credit/No Credit

GEOG 192C. Geography Field Experience C. 1 - 2 Units
Prerequisite(s): one geography course or instructor permission.
Term Typically Offered: Fall, Spring

A particular geographical area is explored and studied via advanced-level field observation. Emphasis may be placed on physical features, cultural features, or both.
Credit/No Credit

GEOG 193A. Field Geography: Urban-Metropolitan. 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Spring only – odd years

Examines the internal structure and external relations of Sacramento as a metropolitan center and of nearby urban communities through field observation and exercises. Emphasis is placed on mapping and interviewing as ways of gaining useful information on urban patterns.

GEOG 193B. Field Geography: Suburban-Rural. 3 Units
Prerequisite(s): Instructor permission.
Examines competition for land use in suburban Sacramento as urban sprawl overruns less intensive uses. Small towns in the lower Sacramento Valley also examined. Group field trips, interviews, field mapping and discussions.
Field trip(s) may be required.

GEOG 193C. Field Geography: Physical. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall only

Survey of selected areas with systematic examination of elements of the natural landscape. Group field trips and individual preparation of reports and consultation with instructor.
Field trip(s) may be required.

GEOG 194. Geography - Related Work Experience. 6 - 12 Units
Prerequisite(s): Consent of supervising faculty and Department Chair.
Term Typically Offered: Fall, Spring

Supervised employment in a company or agency doing geography-related work, arranged through the Department of Geography and the Cooperative Education Program office. Requires preparation of application packet, completion of a 3-6 month full- or part-time work assignment, and a written report. Units not applicable to the Geography major.
Credit/No Credit

GEOG 195A. Geography Internship A. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience at the beginning level in an approved professional environment, working with professionals in public or private organizations. Supervision supplied by a geography faculty member and on-site supervisor. Placements require 4-12 hours per week, depending on units.
Note: Open to all Geography majors and minors with permission of supervising faculty member and Department Chair. GEOG 195A, GEOG 195B, and GEOG 195C may be taken for up to 6 total units.

Credit/No Credit

GEOG 195B. Geography Internship B. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience at an intermediate level in an approved professional environment, working with professionals in public or private organizations. Supervision supplied by a geography faculty member and on-site supervisor. Placements require 4-12 hours per week, depending on units.
Note: Open to all Geography majors and minors with permission of supervising faculty member and Department Chair. GEOG 195A, GEOG 195B, and GEOG 195C may be taken for up to 6 total units.

Credit/No Credit

GEOG 195C. Geography Internship C. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience at an advanced level in an approved professional environment, working with professionals in public or private organizations. Supervision supplied by a geography faculty member and on-site supervisor. Placements require 4-12 hours per week, depending on units.
Note: Open to all Geography majors and minors with permission of supervising faculty member and Department Chair. GEOG 195A, GEOG 195B, and GEOG 195C may be taken for up to 6 total units.

Credit/No Credit

GEOG 196G. Programming for GIS II. 3 Units
Prerequisite(s): GEOG 150 or instructor approval.
Term Typically Offered: Spring only

This is an advanced course in programming and scripting for intermediate to advanced GIS users, using an object-oriented programming approach. You will develop well documented and structured geoprocessing programs for data management, processing, and automation in the Python programming language, leveraging libraries such as ArcPy and GDAL.

GEOG 196U. Geography of Housing in the United States. 3 Units
Term Typically Offered: Fall only

Geographic perspectives on housing in the US. History, policy, alternative housing movements, and spatial theories of urban change as they relate to housing are addressed. Emphasis on examining the role of place and space in the development of housing strategies through reading, discussion, and activities.

GEOG 198. Co-Curricular Activities. 1 - 6 Units
Prerequisite(s): Consent of faculty Sponsor and department chair.
Term Typically Offered: Fall, Spring

Co-curricular activities related to subject matter and concerns of the Geography Department, e.g. students may qualify for credit by providing special tutorial assistance to EOP students or others in introductory courses.
Note: May be repeated for up to 6 units of credit.

Credit/No Credit

GEOG 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and Department chair.
Term Typically Offered: Fall, Spring, Summer

Individual projects or directed reading.
Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 199A. Geography Special Problems A. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading at a beginning level. Graded (CR/NC Available) Units: 1.0 - 3.0
Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 199B. Geography Special Problems B. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading at an intermediate level, ordinarily taken following completion of GEOG 199A. Graded (CR/NC Available) Units: 1.0 - 3.0
Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 199C. Geography Special Problems C. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading at an advanced level. Ordinarily taken following completion of GEOG 199A and GEOG 199B. Graded (CR/NC Available) Units: 1.0 - 3.0
Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students competent to carry on individual work.

Credit/No Credit

BA in Geography (Geographic Information Systems and Analysis)

Units required for Major: 46
Total units required for BA: 120

Program Description

The Bachelor of Arts in Geography with a concentration in Geographic Information Systems and Analysis emphasizes student development of geospatial skills. Geographic Information Science, cartography, remote sensing, and quantitative methods prepare students to tackle any problem with a spatial dimension—from advising an individual firm on good locations for a new branch or supplier to modeling the spread of wildfires across a region to analyzing the global spread of diseases or new technologies.

Note:

- Every candidate must complete **all** of the Geography Core and **one** Concentration.
- Courses *cannot* double count for the core and the concentration.
- Students must take at least **FOUR** courses, with at least one each from Data Analysis and Data Output categories.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (10 Units)		
GEOG 1	Physical Geography: The Distribution of Natural Phenomena [1]	3
GEOG 2	Cultural Geography [1]	3
GEOG 3	Introduction to Maps and Geographic Technologies	3
GEOG 11	Laboratory in Physical Geography	1
Required Upper Division Core Courses (9 Units)		
GEOG 102	Ideas and Skills in Geography	3
GEOG 118	Earth Transformed	3
GEOG 190	Senior Research Seminar in Geography [1]	3
Geography Core (12 Units)		
Select one course from each of the following four areas:		12
Geographic Techniques		
GEOG 105	Computer Cartography	
GEOG 107	Remote Sensing	
GEOG 109	Geographic Information Systems	
GEOG 110	Advanced Geographic Information Systems	
GEOG 150	Programming for GIS	
GEOG 151	Programming for GIS II (Geog 151 course proposal is submitted concurrently with these program changes.)	
GEOG 163	Applied GIS	
GEOG 181	Quantitative Methods in Geography	
GEOG 193A	Field Geography: Urban-Metropolitan	
GEOG 193B	Field Geography: Suburban-Rural	
GEOG 193C	Field Geography: Physical	
Human Geography		
GEOG 141	Geography of Economic Activity	
GEOG 143	Environmental Hazards and Society	
GEOG 145	Population Geography	
GEOG 147	Urban Geography	
GEOG 148	Urban and Regional Planning	
GEOG 149	Transportation Geography	
GEOG 163	Applied GIS	
Physical Geography		
GEOG 111	Elements Of Meteorology	
GEOG 113	Climate	
GEOG 115	Biogeography	
GEOG 116	Global Climate Change	
GEOG 117	Landforms	
GEOG 161	California's Water Resources	
Regional Geography		
GEOG 121	United States and Canada	
GEOG 125	Geography Of East Asia	
GEOG 127	Geography Of Africa	
GEOG 128	Geography Of Europe	
GEOG 129A	Special Topics in Regional Geography A	
GEOG 129B	Special Topics in Regional Geography B	
GEOG 129C	Special Topics in Regional Geography C	
GEOG 131	California	
Concentrations (15 Units)		
Select a concentration from the following:		15
Geographic Information Systems and Analysis Concentration		
Human Geography Concentration		
Metropolitan Area Planning Concentration		

Physical Geography Concentration	
Total Units	46

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Concentration in Geographic Information Systems and Analysis (15 units)

Code	Title	Units
GEOG 109	Geographic Information Systems	3
Select four of the following:		12
GEOG 105	Computer Cartography	
GEOG 107	Remote Sensing	
GEOG 110	Advanced Geographic Information Systems	
GEOG 150	Programming for GIS	
GEOG 151	Programming for GIS II	
GEOG 163	Applied GIS	
GEOG 181	Quantitative Methods in Geography	
GEOG 199	Special Problems	
Total Units		15

It is recommended that students take the following to satisfy their Geographic Techniques core area requirement:

Code	Title	Units
GEOG 193A	Field Geography: Urban-Metropolitan	3
GEOG 193B	Field Geography: Suburban-Rural	3
GEOG 193C	Field Geography: Physical	3

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (9 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		42

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Geography (Human Geography)

Units required for Major: 46
Total units required for BA: 120

Program Description

The Bachelor of Arts in Geography with a concentration in Human Geography examines how diverse human cultures and economies interact with natural environments to create distinctive places with unique achievements, challenges, and conflicts. Students acquire cross-cultural perspectives and knowledge relevant to globalization, international development, energy and other natural resource issues, hazards and disasters, migration and demography, and geopolitical situations.

Note:

- Every candidate must complete **all** of the Geography Core and **one** Concentration.
- Courses *cannot* double count for the core and the concentration.
- Students must take at least **FOUR** courses, with at least one each from Data Analysis and Data Output categories.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (10 Units)		
GEOG 1	Physical Geography: The Distribution of Natural Phenomena [1]	3
GEOG 2	Cultural Geography [1]	3
GEOG 3	Introduction to Maps and Geographic Technologies	3
GEOG 11	Laboratory in Physical Geography	1
Required Upper Division Core Courses (9 Units)		
GEOG 102	Ideas and Skills in Geography	3
GEOG 118	Earth Transformed	3
GEOG 190	Senior Research Seminar in Geography [1]	3
Geography Core (12 Units)		
Select one course from each of the following four areas:		12
Geographic Techniques		
GEOG 105	Computer Cartography	
GEOG 107	Remote Sensing	
GEOG 109	Geographic Information Systems	
GEOG 110	Advanced Geographic Information Systems	
GEOG 150	Programming for GIS	
GEOG 151	Programming for GIS II (GEOG 151 is being proposed concurrently with this program change proposal)	
GEOG 163	Applied GIS	
GEOG 181	Quantitative Methods in Geography	
GEOG 182	Qualitative Methods in Geography	
GEOG 193A	Field Geography: Urban-Metropolitan	
GEOG 193B	Field Geography: Suburban-Rural	
GEOG 193C	Field Geography: Physical	
Human Geography		
GEOG 141	Geography of Economic Activity	
GEOG 143	Environmental Hazards and Society	
GEOG 145	Population Geography	
GEOG 147	Urban Geography	
GEOG 148	Urban and Regional Planning	
GEOG 149	Transportation Geography	
GEOG 163	Applied GIS	
Physical Geography		
GEOG 111	Elements Of Meteorology	
GEOG 113	Climate	
GEOG 115	Biogeography	
GEOG 116	Global Climate Change	
GEOG 117	Landforms	
GEOG 161	California's Water Resources	
Regional Geography		
GEOG 121	United States and Canada	
GEOG 125	Geography Of East Asia	
GEOG 127	Geography Of Africa	
GEOG 128	Geography Of Europe	
GEOG 129A	Special Topics in Regional Geography A	
GEOG 192B	Geography Field Experience B	
GEOG 129C	Special Topics in Regional Geography C	
GEOG 131	California	
Concentrations (15 Units)		
Select a concentration from the following:		15
Geographic Information Systems and Analysis Concentration		
Human Geography Concentration		
Metropolitan Area Planning Concentration		
Physical Geography Concentration		
Total Units		46

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Concentration in Human Geography (15 units)

Code	Title	Units
Select two additional human geography courses from the following:		6
GEOG 141	Geography of Economic Activity	
GEOG 143	Environmental Hazards and Society	
GEOG 145	Population Geography [1]	
GEOG 147	Urban Geography	
GEOG 148	Urban and Regional Planning	
GEOG 149	Transportation Geography	
GEOG 161	California's Water Resources	
GEOG 163	Applied GIS	
Select two additional regional geography courses from the following:		6
GEOG 121	United States and Canada	
GEOG 125	Geography Of East Asia	
GEOG 127	Geography Of Africa	
GEOG 128	Geography Of Europe	
GEOG 129A	Special Topics in Regional Geography A	
GEOG 129B	Special Topics in Regional Geography B	
GEOG 129C	Special Topics in Regional Geography C	
GEOG 131	California	
Select one additional technique course from the following:		3
GEOG 105	Computer Cartography	
GEOG 107	Remote Sensing	
GEOG 109	Geographic Information Systems	
GEOG 110	Advanced Geographic Information Systems	
GEOG 150	Programming for GIS	
GEOG 151	Programming for GIS II	
GEOG 163	Applied GIS	
GEOG 181	Quantitative Methods in Geography	
GEOG 182	Qualitative Methods in Geography	
GEOG 193A	Field Geography: Urban-Metropolitan [2]	

GEOG 193B	Field Geography: Suburban-Rural [2]	
Total Units		15

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] The technique cannot be a field course if a field course was taken for the core.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (9 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6-9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		39-42

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Students can meet upper division Area D by taking GEOG 145 in the Concentration Requirements.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Geography (Metropolitan Area Planning)

Units required for Major: 46
Total units required for BA: 120

Program Description

The Bachelor of Arts in Geography with a concentration in Metropolitan Area Planning helps students understand how cities have evolved, with an emphasis on spatial patterns and the role of transportation in structuring settlements. The concentration provides students with skills for designing cities that address important issues such as sustainability, affordable housing and transportation, a strong civic life, and public health and safety.

Note:

- Every candidate must complete **all** of the Geography Core and **one** Concentration.
- Courses *cannot* double count for the core and the concentration.
- Students must take at least **FOUR** courses, with at least one each from Data Analysis and Data Output categories.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (10 Units)		
GEOG 1	Physical Geography: The Distribution of Natural Phenomena [1]	3
GEOG 2	Cultural Geography [1]	3
GEOG 3	Introduction to Maps and Geographic Technologies	3
GEOG 11	Laboratory in Physical Geography	1
Required Upper Division Core Courses (9 Units)		
GEOG 102	Ideas and Skills in Geography	3

GEOG 118	Earth Transformed	3
GEOG 190	Senior Research Seminar in Geography [1]	3
Geography Core (12 Units)		
Select one course from each of the following four areas:		12
Geographic Techniques		
GEOG 105	Computer Cartography	
GEOG 107	Remote Sensing	
GEOG 109	Geographic Information Systems	
GEOG 110	Advanced Geographic Information Systems	
GEOG 150	Programming for GIS	
GEOG 151	Programming for GIS II (Course proposal is being submitted concurrently with program change proposal.)	
GEOG 163	Applied GIS	
GEOG 181	Quantitative Methods in Geography	
GEOG 182	Qualitative Methods in Geography	
GEOG 193A	Field Geography: Urban-Metropolitan	
GEOG 193B	Field Geography: Suburban-Rural	
GEOG 193C	Field Geography: Physical	
Human Geography		
GEOG 141	Geography of Economic Activity	
GEOG 143	Environmental Hazards and Society	
GEOG 145	Population Geography	
GEOG 147	Urban Geography	
GEOG 148	Urban and Regional Planning	
GEOG 149	Transportation Geography	
GEOG 163	Applied GIS	
Physical Geography		
GEOG 111	Elements Of Meteorology	
GEOG 113	Climate	
GEOG 115	Biogeography	
GEOG 116	Global Climate Change	
GEOG 117	Landforms	
GEOG 161	California's Water Resources	
Regional Geography		
GEOG 121	United States and Canada	
GEOG 125	Geography Of East Asia	
GEOG 127	Geography Of Africa	
GEOG 128	Geography Of Europe	
GEOG 129A	Special Topics in Regional Geography A	
GEOG 129B	Special Topics in Regional Geography B	
GEOG 129C	Special Topics in Regional Geography C	
GEOG 131	California	
Concentrations (18 Units)		
Select a concentration from the following:		15
Geographic Information Systems and Analysis Concentration		
Human Geography Concentration		
Metropolitan Area Planning Concentration		
Physical Geography Concentration		
GEOG 182	Qualitative Methods in Geography	3
Total Units		49

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Concentration in Metropolitan Area Planning (15 units)

Code	Title	Units
GEOG 109	Geographic Information Systems	3
GEOG 148	Urban and Regional Planning	3
GEOG 141	Geography of Economic Activity	3
or GEOG 145	Population Geography	
GEOG 147	Urban Geography	3
or GEOG 149	Transportation Geography	
Select one of the following technique elective courses:		3
GEOG 105	Computer Cartography	
GEOG 107	Remote Sensing	
GEOG 110	Advanced Geographic Information Systems	
GEOG 150	Programming for GIS	
GEOG 151	Programming for GIS II (Course prtoposal submitted concurrent with program change proposal)	
GEOG 163	Applied GIS	
GEOG 181	Quantitative Methods in Geography	
GEOG 182	Qualitative Methods in Geography	
GEOG 193A	Field Geography: Urban-Metropolitan [1]	
GEOG 193B	Field Geography: Suburban-Rural [1]	
Total Units		15

[1] The technique cannot be a field course if a field course was taken for the core.

Additional Recommended Courses

The courses below provide valuable additional knowledge and perspectives for students choosing the MAP concentration:

Code	Title	Units
ECON 132	State and Local Government Finance	3
ECON 180	Urban Economics	3
ENVS 122	Environmental Impact Analysis: CEQA and NEPA	3
GEOG 131	California	3
GEOG 161	California's Water Resources	3
HIST 163	The City in US History [1]	3
HIST 184/ ART 118B	California Architecture and Urban History	3
RPTA 154	Management of Recreation Facilities	3

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (9 Units)		
B1 - Physical Science [2]		0

B2 - Life Forms	3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]	0
B4 - Math Concepts	3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.	3
Area C: Arts and Humanities (12 Units)	
C1 - Arts	3
C2 - Humanities	3
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (6-9 Units)	
Area D Course	3
Area D Course	3
Area D Course [2]	0
Area D Course - Take upper-division course to complete Area & upper division requirements. [3]	0 - 3
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	39-42

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Students can meet upper division Area D by taking HIST 163 in Additional Recommended Courses.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Geography (Physical Geography)

Units required for Major: 46
Total units required for BA: 120

Program Description

The Bachelor of Arts in Geography with a concentration in Physical Geography focuses on earth systems and human impacts on them, including global climate change. Students interested in natural science and environmental management study weather and climate, plant and animal communities, landforms, and water resources, emphasizing the growing human role in influencing and managing these complex interrelated systems.

Note:

- Every candidate must complete **all** of the Geography Core and **one** Concentration.
- Courses *cannot* double count for the core and the concentration.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (10 Units)		
GEOG 1	Physical Geography: The Distribution of Natural Phenomena [1]	3
GEOG 2	Cultural Geography [1]	3
GEOG 3	Introduction to Maps and Geographic Technologies	3
GEOG 11	Laboratory in Physical Geography	1
Required Upper Division Core Courses (9 Units)		
GEOG 102	Ideas and Skills in Geography	3
GEOG 118	Earth Transformed	3
GEOG 190	Senior Research Seminar in Geography [1]	3
Geography Core (12 Units)		
Select one course from each of the following four areas:		12
Geographic Techniques		
GEOG 105	Computer Cartography	
GEOG 107	Remote Sensing	
GEOG 109	Geographic Information Systems	
GEOG 110	Advanced Geographic Information Systems	
GEOG 163	Applied GIS	
GEOG 150	Programming for GIS	
GEOG 151	Programming for GIS II	
GEOG 182	Qualitative Methods in Geography	
GEOG 181	Quantitative Methods in Geography	
GEOG 193A	Field Geography: Urban-Metropolitan	
GEOG 193B	Field Geography: Suburban-Rural	

GEOG 193C	Field Geography: Physical
Human Geography	
GEOG 141	Geography of Economic Activity
GEOG 143	Environmental Hazards and Society
GEOG 145	Population Geography
GEOG 147	Urban Geography
GEOG 148	Urban and Regional Planning
GEOG 149	Transportation Geography
GEOG 163	Applied GIS
Physical Geography	
GEOG 111	Elements Of Meteorology
GEOG 113	Climate
GEOG 115	Biogeography
GEOG 116	Global Climate Change
GEOG 117	Landforms
GEOG 161	California's Water Resources
Regional Geography	
GEOG 121	United States and Canada
GEOG 125	Geography Of East Asia
GEOG 127	Geography Of Africa
GEOG 128	Geography Of Europe
GEOG 129A	Special Topics in Regional Geography A
GEOG 129B	Special Topics in Regional Geography B
GEOG 129C	Special Topics in Regional Geography C
GEOG 131	California
Concentrations (15 Units)	
Select a concentration from the following:	15
Geographic Information Systems and Analysis Concentration	
Human Geography Concentration	
Metropolitan Area Planning Concentration	
Physical Geography Concentration	
Total Units	46

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Concentration in Physical Geography (15 units)

Code	Title	Units
Select four additional physical geography courses from the following:		12
GEOG 111	Elements Of Meteorology [1]	
GEOG 115	Biogeography [1]	
GEOG 116	Global Climate Change [1]	
GEOG 117	Landforms	
GEOG 161	California's Water Resources	
GEOG 193C	Field Geography: Physical [2]	
Select one additional technique course from the following:		3
GEOG 105	Computer Cartography	
GEOG 107	Remote Sensing	
GEOG 109	Geographic Information Systems	
GEOG 110	Advanced Geographic Information Systems	
GEOG 163	Applied GIS	
GEOG 181	Quantitative Methods in Geography	
Total Units		15

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] The technique cannot be a field course if a field course was taken for the core.

Note: GEOG 113 can be used to meet the physical geography breadth requirement in the core, but cannot be used in the concentration.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (6-9 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		39-42

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Students can complete Area B5 by taking GEOG 111, GEOG 115, or GEOG 116 in their Concentration Requirements.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Certificate in Pre-Planning

Units required for Certificate: 15-16

Program Description

The Pre-Planning program consists of 15-16 units in addition to the major and culminates in a certificate. Select *either* the Metropolitan or Resource Planning Concentration below. No more than two courses may be taken in any one department.

Students must have an advisor and will not be allowed to proceed in the program without an advisor's signature. In some cases courses may be accepted that have already been completed. There can be no double counting from among courses used in the major.

Program Requirements

Metropolitan Planning

Code	Title	Units
Select five of the following:		15
ECON 104	Introduction to the United States Economy	
ECON 120	Economics and Environmental Degradation	
GEOG 109	Geographic Information Systems	
GEOG 145	Population Geography	
GEOG 147	Urban Geography	
GEOG 148	Urban and Regional Planning	
GEOG 149	Transportation Geography	
GEOG 161	California's Water Resources	
GOVT 170		
GOVT 180		
HIST 163	The City in US History	
Total Units		15

Resource Planning

Code	Title	Units
Select five of the following:		15 - 16
ECON 120	Economics and Environmental Degradation	
GEOG 109	Geographic Information Systems	
GEOG 117	Landforms	
GEOG 161	California's Water Resources	
GEOL 10	Physical Geology	
GOVT 170		
GOVT 180		
HROB 101	The Management of Contemporary Organizations	
Total Units		15-16

Minor in Geographic Information Systems

Units required for Minor: 18

Program Description

Geography students at Sacramento State explore Earth's natural and cultural environments using methods from the natural sciences and the social sciences. They study climate, weather, landforms, water resources, and plants and animals, as well as peoples, societies, economies, and cities. These phenomena overlap in intricate ways, giving rise to distinctive places and regions. Geography's approach emphasizes Earth's spatial relationships and patterns, and the processes that govern them, whether found in nature or in human behavior.

Program Requirements

Code	Title	Units
Required Courses (18 Units) [1]		
GEOG 3	Introduction to Maps and Geographic Technologies	3
GEOG 109	Geographic Information Systems	3
GEOG 110	Advanced Geographic Information Systems	3
Select three of the following:		9
GEOG 105	Computer Cartography	
GEOG 107	Remote Sensing	
GEOG 163	Applied GIS	
GEOG 181	Quantitative Methods in Geography	
Three units of upper division GIS coursework from another department with permission of the GIS Minor advisor.		
Total Units		18

1. Courses must be selected in consultation and approved by a faculty advisor in Geography. A minimum of 6 upper division units must be earned in residence.

Minor in Geography

Units required for Minor: 18

Program Description

Geography students at Sacramento State explore Earth's natural and cultural environments using methods from the natural sciences and the social sciences. They study climate, weather, landforms, water resources, and plants and animals, as well as peoples, societies, economies, and cities. These phenomena overlap in intricate ways, giving rise to distinctive places and regions. Geography's approach emphasizes Earth's spatial relationships and patterns, and the processes that govern them, whether found in nature or in human behavior.

Program Requirements

Code	Title	Units
Select two of the following lower division courses: [1]		6
GEOG 1	Physical Geography: The Distribution of Natural Phenomena	
GEOG 2	Cultural Geography	
GEOG 3	Introduction to Maps and Geographic Technologies	
Select a minimum of 9 upper division Geography units, **excluding** the following: [1]		9
GEOG 193C	Field Geography: Physical	
GEOG 194	Geography - Related Work Experience	
GEOG 198	Co-Curricular Activities	
GEOG 199	Special Problems	
Select three additional units in Geography, either lower division or upper division [1]		3
Total Units		18

[1] Courses must be selected in consultation with and approved by a faculty advisor in Geography. A minimum of 6 upper division units must be earned in residence.

Geology

College of Natural Sciences and Mathematics

Program Description

Geology is the study of the earth, its environments, and its history. It is an interdisciplinary science that combines geological observations and concepts with those of biology, chemistry, physics, and mathematics. Its goals are to study rocks, minerals, fossils, and energy and water resources, and to understand geologic principles and processes that shape the earth and its environments.

The Sacramento State Geology program has three objectives:

1. to encourage students to think scientifically,
2. to provide students with the knowledge base to make progress in geology after leaving Sacramento State, and
3. to teach students basic skills such as using a petrographic microscope and field equipment, how to construct a geologic map, and how to write a technical geologic report.

The BA degree program is designed as a shorter, more flexible preparation for some geology jobs, earth science teaching in high school (see Teaching Credential), and jobs such as park naturalist, environmentalist, geologic planning specialist, or in geology-related businesses. The BA degree can be used in dual-track majors combining geology with biological sciences, chemistry, physics, or engineering.

The BS degree program is designed to be the best possible preparation for advanced work in geology in graduate school or for professional employment as a geologist. The Geology program offers a strong background in the major areas of geology including: mineralogy, petrology, paleontology, stratigraphy, structural geology, field mapping, hydrogeology, and report writing.

Degree Programs

BA in Earth Science (p. 850)

BA in Geology (p. 851)

BS in Geology (p. 853)

BS in Geology (Hydrogeology) (p. 854)

Minor in Geology (p. 855)

MS in Geology (p. 855)

Special Features

- Among the greatest attractions for studying geology at Sacramento State is the University's location in a dynamic geologic environment; just 70 miles to the west is the San Francisco Bay Area and the San Andreas fault. About equidistant to the east is the magnificent Sierra Nevada mountain range. The active geology faculty conducts field trips in almost every course in the Geology major, providing excellent opportunities for students to learn field skills and to apply classroom knowledge to field situations.
- A small student/teacher ratio, plus a rigorous course of study, contributes to the excellent reputation of the Sacramento State Geology Department with employers and graduate schools. Contact the Department office for assistance in obtaining a faculty advisor.
- The Geology Department operates the largest on-campus well field in the nation, with twenty engineered wells for teaching and student research. The well field is complemented by a comprehensive collection of state-of-the-art geophysical and hydrological field equipment.
- The Geology Department shares Placer Hall with the United States Geological Survey (USGS). Students benefit from this unique collaborative enterprise between a university and a federal agency because of the educational, research, and employment opportunities provided by the combined scientific and educational resources of the Geology Department and the USGS.
- Students interested in marine geology may take courses at Moss Landing Marine Laboratories at Moss Landing, CA, 180 miles from the Sacramento State campus. The labs and available courses are described under the Marine Sciences section of this catalog. A program including Moss Landing courses may be formulated with a Geology advisor. Such a program usually requires living in or near Moss Landing for one or more semesters.

Career Possibilities

Geologist · Geophysicist · Groundwater Geologist · Oil and Gas Geologist · Mineralogist · Paleontologist · Marine Geologist · Environmental

Geologist · Photogeologist · Seismologist · Consulting Geologist · Soils Engineer · Land Use Planner · Volcanologist · Astrogeologist · Geochemist · Economic Geologist · Mining Geologist · Hydrologist · Government Geologist · Coal Geologist · Glacial Geologist · Vertebrate Paleontologist · Geology Professor · Earth Science Teacher

Contact Information

Tim Horner, Department Chair
Stacy Sinz, Administrative Support Coordinator
Placer Hall 2003
(916) 278-6337
Department of Geology Website (http://www.csus.edu/geology/)

Faculty

CORNWELL, KEVIN J.

HAMMERSLEY, LISA

HAUSBACK, BRIAN P.

HORNER, TIMOTHY

SHIMABUKURO, DAVID

SKINNER, STEVEN

VANKEUREN, AMELIA

WAGNER, AMY

GEOL 5. Geology Of Mexico. 4 Units
General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring

Introduction to Geology through examination of aspects of the geology of Mexico. Emphasizes problem-based approach to learning Geology and the process of scientific investigation. Topics include a wide range of geological concepts including plate tectonic setting of Mexico, living with volcanoes: the Mexican volcanic belt, the Mexico City earthquake, issues of water supply, flooding and atmospheric pollution in Mexico City, the Chicxulub crater and geologic time, ore deposits of Mexico. Lecture three hours; laboratory three hours.

GEOL 5A. Geology of Mexico Field Trip. 2 Units
Prerequisite(s): GEOL 5
Term Typically Offered: Fall, Spring

Focuses on fundamental geologic concepts as seen from real world examples in Mexico that will be visited during several strategic field stops. Field stops will emphasize a problem-based approach to learning geology and the process of scientific investigation. Topics include a wide range of geological concepts including plate tectonic setting of Mexico, living with volcanoes, the Mexico City earthquake, issues of water supply, flooding, climate change and atmospheric pollution in Mexico City, the Chicxulub meteor impact crater, geologic time, ore deposits of Mexico, and natural hazards. Field trip ten days.
Field trip(s) may be required.

GEOL 7. Natural Disasters. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Examination of earth materials and earth processes through the study of natural disasters. Topics include earthquakes, volcanoes, landslides, floods, tsunamis, hurricanes, tornadoes and meteorite impacts. Examination of causes, effects and mitigation of natural disasters.

GEOL 8. Earth Science. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

Earth and its neighbors in space. Scientific method and discovery in the study of stars, planets, weather, rivers, glaciers, oceans, rocks, volcanoes, earthquakes, landslides, mountains, drifting continents, the earth in time. **Note:** Students contemplating a geology major or minor in geology should enroll in GEOL 10, not in GEOL 8. No credit for those who have taken GEOL 10 or equivalent.

GEOL 8L. Earth Science Lab. 1 Unit
Prerequisite(s): GEOL 8; may be taken concurrently.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B3)
Term Typically Offered: Fall, Spring

Emphasizes scientific methods and systematic laboratory procedures. Includes weather analysis, rock and mineral identification, study of geologic concepts by means of topographic maps, and exercises in astronomy and oceanography. Laboratory three hours.

GEOL 8T. Earth Science Lab for Teachers. 1 Unit
Prerequisite(s): GEOL 8; may be taken concurrently.
Term Typically Offered: Fall, Spring

Exploration of the solid Earth, its atmosphere and oceans, and the Earth's place in the solar system. Emphasizes learning Earth science through investigation, and uses Earth science to understand the processes of science. Laboratory three hours.

GEOL 10. Physical Geology. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Rocks and their mineral constituents, geological processes such as weathering, erosion, glaciation, mountain building, etc., volcanoes, earthquakes, folds, faults, the earth's interior, plate tectonics and earth resources. Field trip. Fee course.
Fee course.
Field trip(s) may be required.

GEOL 10L. Physical Geology Lab. 1 Unit
Prerequisite(s): GEOL 10; may be taken concurrently.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B3)
Term Typically Offered: Fall, Spring

Laboratory supplement to GEOL 10. Emphasizes scientific method and systematic laboratory procedures. Identification of common minerals and rocks. Introduction to and analysis of topographic and geologic maps. Field trip. Laboratory three hours. Fee course.
Fee course.
Field trip(s) may be required.

GEOL 11. Digital Methods in Geoscience. 1 Unit
Prerequisite(s): GEOL 5 or GEOL 10/10L. GEOL 10L can be taken concurrently.
Term Typically Offered: Fall, Spring

Introductory course to the basic computing needs to be successful in the geosciences. Topics include Microsoft Office, Adobe Suite and reference software.

GEOL 12. Historical Geology. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Origin and geological history of the earth and the evolution of its animal and plant inhabitants. Fee course.
Note: Lecture 3 hours.

Fee course.

GEOL 12L. Historical Geology Lab. 1 Unit
Prerequisite(s): GEOL 12; and GEOL 5 or GEOL 10 and GEOL 10L. GEOL 12 may be taken concurrently.
Term Typically Offered: Fall, Spring

Supplements GEOL 12. Use of sedimentary rocks, fossils, geologic maps, and structural sections in interpreting ancient environments, tectonic settings, and geologic history. Age relations and correlation of rock and time-rock units. Introduction to fossil identification and biostratigraphy. Laboratory three hours.

GEOL 100. Earth Materials - Rocks and Minerals. 4 Units
Prerequisite(s): CHEM 1A, GEOL 5 or GEOL 10/10L, and GEOL 12 (GEOL 12 can be taken concurrently) Field Trip.
Term Typically Offered: Fall, Spring

Properties and identification of minerals and rocks; rock formation and the rock cycle. Lecture three hours; laboratory three hours; field trip. Field trip(s) may be required.

GEOL 101. Optical Mineralogy. 2 Units
Prerequisite(s): CHEM 1A, GEOL 5 or GEOL 10 + GEO 10L, GEOL 100 (GEOL 100 can be taken concurrently)
Term Typically Offered: Fall, Spring

Introduction to advanced mineral identification by physical and optical properties. Techniques and theory of optical mineral analysis and crystallography. Lecture 1 hour; laboratory 3 hours.

GEOL 102. Igneous and Metamorphic Petrology. 4 Units
Prerequisite(s): GEOL 100 and GEOL 103
Term Typically Offered: Fall, Spring

Study of the origin, evolution, occurrence, geochemistry, dynamics and physical characteristics of igneous and metamorphic systems. The laboratory will focus on both hand-specimen and petrographic-microscope studies. Lecture three hours, laboratory three hours. Fee course.
Fee course.

GEOL 103. Sedimentology/Stratigraphy. 4 Units
Prerequisite(s): GEOL 12, GEOL 12L, and GEOL 100
Term Typically Offered: Spring only

Compositions, textures, classification, origins and structures of sediments and sedimentary rocks. Hand specimen observation and interpretation. Facies models, classification and correlation of stratigraphic units, subsurface techniques. Lab emphasizes hand specimen and microscope identification and subsurface techniques. Field trip. Lecture three hours; laboratory three hours. Fee course.
Fee course.
Field trip(s) may be required.

GEOL 105. Paleontology. 4 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, GEOL 12 and GEOL 12L.
Term Typically Offered: Spring only

Biology, evolution, classification and paleoecology of important groups of fossil organisms. Uses of fossils in solving geologic problems.
Note: Lecture = 3 units; Lab = 1 unit. Fee Course. Field Trip.

Fee course.
Field trip(s) may be required.

GEOL 110A. Structural Geology and Tectonics. 4 Units
Prerequisite(s): GEOL 111A and GEOL 111B, PHYS 5A or PHYS 11A, MATH 26A or MATH 30.
Term Typically Offered: Fall, Spring

Description, analysis and interpretation of geologic structures and tectonic settings. Theory of stress and strain as it pertains to the origin of folds, faults, joints, cleavage, and other structural elements. Laboratory includes techniques of structural analysis such as orthographic projections, stereonets, structure contours, Mohr diagrams, interpretation of maps and cross sections. Lecture three hours, laboratory three hours. Fee Course.
Fee course.

GEOL 110B. Structural Geology Field. 1 Unit
Prerequisite(s): GEOL 103, GEOL 111A, GEOL 111B, and GEOL 110A. It is recommended that GEOL 110A be taken concurrently.
Term Typically Offered: Fall, Spring

Field description, mapping and interpretation of geologic structures. Includes techniques of taking detailed field notes, field photography measurement of structures using a pocket transit, geologic map and cross section construction, stereonet analysis, and report writing. Consists of off-campus fieldwork. Fee course.
Fee course.

GEOL 111A. Field Geology. 2 Units
Prerequisite(s): GEOL 12L and GEOL 100
Corequisite(s): GEOL 111B
Term Typically Offered: Spring only

Science and art of recognizing, describing and interpreting geologic features in the field. Lecture and laboratory course on the preparation and use of topographic and geologic maps, stratigraphic and cross sections, compass and GPS instrument. Lecture one hour; laboratory three hours. Fee course.
Fee course.

GEOL 111B. Field Techniques. 2 Units
Prerequisite(s): GEOL 100 and GEOL 103. GEOL 103 may be taken concurrently.
Corequisite(s): GEOL 111A
Term Typically Offered: Spring only

Introduction to geologic field methods including descriptions of rocks, geologic mapping, observation, interpretation and geologic report writing. Detailed mapping techniques will also be covered; these may include the use of plane table, total station theodolite and global position systems. Consists of off-campus fieldwork. Fee course.
Fee course.

GEOL 112. Geophysics For Geologists. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, PHYS 5A, PHYS 5B which may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to the principal geophysical concepts and techniques useful to geologists in the study of tectonics, the Earth's interior and rresource exploration. Includes the study of seismology, heat flow, gravity, borehole geophysics, electromagnetism and geodynamics. Fee Course/Field Trip.
Fee course.
Field trip(s) may be required.

GEOL 114. Volcanology. 3 Units
Prerequisite(s): GEOL 100; May be taken concurrently.
Term Typically Offered: Fall, Spring

An advanced exploration of physical volcanic processes, chemistry of magmas, interpretation of volcanic deposits, historic eruptions and volcanic hazard assessment.
Note: Field trip. Weekend field trip to volcanic areas (typically in California. Fee course. Field trip student fee.

Fee course.
Field trip(s) may be required.

GEOL 115. Volcanoes: An Introduction. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

An introductory to volcanoes including volcanic landforms, eruption styles, properties of magma, and volcanic hazards/ mitigation.

GEOL 120. Surficial Processes. 4 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L; GEOL 12, GEOL 12L.
Term Typically Offered: Fall, Spring

Focused study on the basic forces that drive surficial processes such as wind water and gravity and the role of weathering, sediment transport and deposition on landform and landscape development. A laboratory component will enhance student understanding by solving applied problems as well as develop proficiencies with various geologic tools.
Note: 150 minutes Lecture = 3 units, 150 minutes Lab = 1 unit. Fee Course.

Fee course.

GEOL 121. Geology of California. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10.
Term Typically Offered: Fall, Spring

Regional study of California and certain surrounding areas with regard to geologic development, plate tectonics, economic resources and geologic hazards. Lecture and field trip(s). Fee course.
Fee course.
Field trip(s) may be required.

GEOL 123. Geochemistry. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, CHEM 1A.
Term Typically Offered: Fall, Spring

Fundamentals of the geochemistry of Earth materials. Thermodynamics and kinetics of geological environments, silicates and carbonates, major element geochemistry, trace and rare earth element geochemistry, stable and radiogenic isotopes. Applications to studies of aqueous, pedogenic, igneous, sedimentary, and metamorphic environments. Analysis of geochemical aspects of contemporary resource, environmental, and paleoenvironmental problems.

GEOL 125. Metallic Ore Deposits. 3 Units
Prerequisite(s): GEOL 100, CHEM 1A.
Term Typically Offered: Fall, Spring

Origin, geology, and distribution of metallic ore deposits. Introduction to ore minerals. Exploration methods. Field trip. Fee course.
Fee course.
Field trip(s) may be required.

GEOL 126. Environmental Field Methods. 3 Units
Prerequisite(s): GEOL 10 or GEOL 10L or instructor permission.
Field analysis of the local environment, including soil and water systems. Students will learn monitoring design, sample collections, sample analysis, data interpretation, and presentation methodologies for environmental geology applications.

GEOL 127. Hydrogeology. 4 Units
Prerequisite(s): CHEM 1A, GEOL 10, GEOL 10L, PHYS 5A, and MATH 26A or MATH 30, or instructor permission.
Term Typically Offered: Spring only

Presents fundamentals of groundwater flow, as influenced by topography and geology; geological aspects of groundwater supply, contamination, remediation, and protection of hydrogeological regions of the U.S. and their critical groundwater issues. Lecture three hours; laboratory three hours. Lecture three hours.

GEOL 130. Oceanography. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring, Summer

Survey of geological, physical, chemical and biological oceanography including the sea floor; waves, tides, currents; the physical and chemical properties of seawater and their distribution in the sea; planktonic life and its relation to nutrients.

GEOL 132. Marine Geology. 3 Units
Prerequisite(s): GEOL 10 and GEOL 10L or GEOL 12 and GEOL 12L
Term Typically Offered: Spring only

Origin, structure and evolution of the ocean basins and their margins. Topics covered will include marine sediments, seafloor bathymetry, seismic stratigraphy, sea level history, and marine micropaleontology. Fee course. Field trip: Weekend trip to Moss Landing, California to collect marine samples.
Fee course.
Field trip(s) may be required.

GEOL 140. Geology and the Environment. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Applies geologic data and principles to situations affecting our environment. The geologic study of earthquakes, volcanoes, floods, landslides, groundwater and similar topics supplies the background data for lectures on land use and other social choices. Topics such as geopolitics and mineral supply provide a basis for understanding international politics, social costs, and world economics. Fee course.
Fee course.

GEOL 150. Computer Mapping in Geology. 3 Units
Prerequisite(s): GEOG 109 or instructor permission
Term Typically Offered: Fall, Spring

This course is designed to enhance the mapping skills of geology majors by providing them an opportunity to learn modern computer aided mapping techniques - methods and tools widely used across industry, government, and academe. The course is designed to teach students how to effectively use various tools and mapping software by applying their developing skills in solving a variety of geological problems. This course strategy will help develop both student technical map making and innovative problem solving skills.

GEOL 170. Age of Dinosaurs. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Applies to the fundamental principles of geology, biology, and ecology to understanding the evolution of the Mesozoic world. Emphasis is placed on the nature and evolution of dinosaurs in the context of global regional changes in the Mesozoic ecosystem. Included are considerations of the data, methods, and uncertainties in paleontology and other historical sciences.

GEOL 171. Petroleum Geology. 3 Units
Prerequisite(s): PHYS 5A & GEOL 103. GEOL 103 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to the origin, migration, and accumulation of hydrocarbons in the context of stratigraphic and structural systems. Exploration and production of both conventional and unconventional resources. Lecture three hours. Field trip. Fee Course.
Fee course.
Field trip(s) may be required.

GEOL 177. Hawaii Volcanic Field Trip. 2 Units
Prerequisite(s): Geology 10 or another physical geology course approved by instructor; Field Trip, 2 units. Fee course.
Term Typically Offered: Fall, Spring

An investigation and visit to the many interesting volcanic features and eruption activities of Hawaiian volcanism. Topics include tectonics, physical volcanology, and volcanic monitoring techniques.
Credit/No Credit
Fee course.

GEOL 180. Water Planet. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Investigating the physical processes that control water movement and supply across the planet. Subjects include the hydrological cycle, oceans, waves and tides, fisheries, water in the atmosphere, water and wildfire, landslides, river systems, groundwater and water quality, water management, and the future of water resources on a changing planet.

GEOL 184. Geological Field Trip. 2 Units
Term Typically Offered: Fall only

10-day field trip to a region of outstanding geology. Attendance at preliminary meetings is required. Analyzes and interpretation of geologic features is emphasized. Fee course.
Note: Student should consult the Geology Department during the semester before planning to take the course. May be taken more than once for credit.

Credit/No Credit
Fee course.
Field trip(s) may be required.

GEOL 188. Advanced Geologic Mapping. 6 Units
Prerequisite(s): GEOL 102, GEOL 103, GEOL 110A, GEOL 110B, GEOL 111A, GEOL 111B and instructor permission.
Term Typically Offered: Fall, Spring

Advanced principles/methods of geologic mapping, interpretation and geologic report writing for selected field areas in the western United States. Mapping techniques include the use of aerial photographs and global position systems. Consists of on-campus field preparation and off-campus fieldwork. Fee course.
Fee course.

GEOL 189. Geology Colloquium. 1 Unit
Term Typically Offered: Fall, Spring

Students will attend and participate in the joint Geology, Environmental Studies, Ecology weekly colloquium series and will be exposed to a variety of geologic and environmental topics. Speakers include those from CSUS, the USGS, government and professional organizations, and other academic institutions. Topics and speakers vary each semester.
Note: This course must be taken twice.

Credit/No Credit

GEOL 190A. Geology and Tectonic Development of California Seminar. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10, GEOL 12; GEOL 110A recommended.
Term Typically Offered: Fall, Spring

Seminar in the geologic and tectonic development of California.

GEOL 193C. Engineering Geology. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, GEOL 12, PHYS 5A or PHYS 11A, MATH 29 or high school trigonometry.
Term Typically Offered: Fall, Spring

Investigates the engineering properties of earth materials, the engineering considerations required to build safe and durable structures on and within the Earth, and problems associated with structures designed and built neglecting physical environmental conditions. Designed to introduce engineering concepts to students who have a competent grasp of general geologic principles and processes. Lecture 3 hours.

GEOL 195. Geology Internship. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised unpaid work experience in government or industry. Supervision is provided by the faculty instructor and responsible officials in the work situations.
Note: Open to all upper division Geology majors with instructor permission. Number of units earned depends on number of hours worked.

Credit/No Credit

GEOL 197. Advanced Laboratory Techniques for Geology. 1 - 3 Units
Prerequisite(s): Appropriate upper division courses and instructor permission.
Term Typically Offered: Fall, Spring

Supervised individual instruction on techniques applied in geology laboratories for advanced research in mineralogy, petrology, geochemistry, geophysics, and paleontology.
Credit/No Credit

GEOL 198A. Senior Research Preparation. 1 Unit
Prerequisite(s): Senior status and appropriate courses as determined by a Departmental faculty committee. The proposed project must be approved by a Department committee; instructor permission.
Term Typically Offered: Fall, Spring

Selection and design of an independent research project. A final written report is required and includes: research proposal, bibliography, and results of preliminary review of the literature. Student must choose a supervising instructor.

GEOL 198B. Senior Research Project. 2 Units
Prerequisite(s): Senior status and appropriate courses as determined by a Departmental faculty committee. The proposed project must be approved by the Department committee; instructor permission.
Term Typically Offered: Fall, Spring

Completion of an independent research project. A final written report is required. Progress reports may be required by the supervision instructor. Presentation of an oral report on the research project during the same semester is required.

GEOL 199A. Beginning Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or special studies at a beginning level, including fieldwork, lab work, library study, or other learning activities.
Note: Open only to students judged competent to carry on individual work. Credit/noncredit grading also available.

GEOL 199B. Intermediate Special Problems. 1 - 3 Units
Individual projects or special studies at an intermediate level, including fieldwork, lab work, library study, or other learning activities.
Note: Open only to students judged competent to carry on individual work. Credit/noncredit grading also available.

GEOL 199C. Advanced Special Problems. 1 - 3 Units
Individual projects or special studies at an advanced level, including fieldwork, lab work, library study, or other learning activities.
Note: Open only to students judged competent to carry on individual work. Credit/noncredit grading also available.

GEOL 200. Graduate Research Methods Seminar. 3 Units
Term Typically Offered: Fall, Spring

Developing a research proposal, library and internet searches, seeking external funding, presentation graphics, and publication formats. Students will develop a research project in preparation for thesis requirement. Seminar three hours.
Note: Graduate Writing Intensive (GWI).

GEOL 202. Aqueous Geochemistry. 3 Units
Prerequisite(s): CHEM 1B; instructor permission.
Term Typically Offered: Fall, Spring

Low temperature geochemical reactions in aqueous environments. Chemical kinetics, thermodynamics, mixing and dilution, mineral stability, chemical composition of surface water, stable isotopes. Three hours lecture.

GEOL 204. Contaminant Hydrogeology. 3 Units
Prerequisite(s): CHEM 1B and CHEM 6B or CHEM 20, GEOL 202.
Term Typically Offered: Fall, Spring

Contaminants and contaminant transport in near-surface environments. Fluid-sediment interaction, fluid partitioning, common geochemical reactions, stability and mobility of groundwater contaminants, multi-phase systems, sampling considerations and overview of analytical techniques.

GEOL 208. Groundwater Modeling. 3 Units
Prerequisite(s): GEOL 127, MATH 45.
Term Typically Offered: Fall, Spring

Computer modeling of groundwater systems using 2 and 3 dimensional numerical solutions and common software packages. Topics will include data acquisition, constructing a numerical model, model calibration, flow paths, particle tracking and model output.

GEOL 212. Geologic Remote Imaging. 3 Units
Prerequisite(s): PHYS 5B or PHYS 11B; GEOL 102, GEOL 110A; and proficiency using a personal computer.
Term Typically Offered: Fall, Spring

Use of remote imaging in geologic applications. Types of imagery, acquisition, production, processing, and interpretation are covered.

GEOL 213. Advanced Structural Geology and Tectonics. 3 Units
Prerequisite(s): GEOL 110A and MATH 30
Term Typically Offered: Fall, Spring

An advanced treatment of deformation of the lithosphere of the earth over short and long timescales. Construction of 2D and 3D models of the crust. Use of software packages to solve problems in tectonics and related disciplines.

GEOL 214. Advanced Volcanology. 3 Units
Term Typically Offered: Fall, Spring

Analyzes volcanic eruption processes. Interpretation of volcanic deposits in the evaluation of volcanic hazards, risk, eruption processes, and geologic history. Field trip.
Field trip(s) may be required.

GEOL 218. Applied Geophysics. 3 Units
Prerequisite(s): PHYS 5B or PHYS 11C and GEOL 112.
Term Typically Offered: Fall, Spring

Advanced field techniques used for geophysical exploration. Data collection and problem solving using resistvity, conductivity, seismic reflection, seismic refraction, gravity, magnetics and borehole geophysical techniques. Lecture two hours, laboratory three hours.

GEOL 220. Surficial Processes. 3 Units
Prerequisite(s): GEOL 120 or equivalent.
Term Typically Offered: Fall, Spring

Dynamics of geological processes and the landscapes they carve. System thresholds, linked processes, data generation and evaluation that characterize landscape development.

GEOL 223. Geochemistry. 4 Units
Prerequisite(s): CHEM 1A, MATH 30, GEOL 100, or instructor permission.
Term Typically Offered: Fall, Spring

Fundamentals of the geochemistry of Earth materials. Thermodynamics and kinetics of geological environments, silicates and carbonates, major element geochemistry, trace and rare earth element geochemistry, stable and radiogenic isotopes. Applications to studies of aqueous, pedogenic, igneous, sedimentary, and metamorphic environments. Analysis of geochemical aspects of contemporary resource, environmental, and paleoenvironmental problems.
Note: Lecture 3 hours = 3 units; laboratory 170 minutes = 1 unit.

GEOL 227. Advanced Hydrogeology. 3 Units
Prerequisite(s): GEOL 127, graduate level status in Geology.
Term Typically Offered: Fall, Spring

Water budgets, theories of groundwater flow to wells, hydrogeologic regimes, fracture flow, dewatering, salt water intrusion, dating and chemical identification of water. Lecture 3 hours.

GEOL 230. Seminar In Geology. 3 Units
Term Typically Offered: Fall, Spring

Reading, analysis and discussion of the geologic literature on selected topics in geology. Student presentations and reports are required.
Note: May be taken twice for credit.

GEOL 240. Special Topics. 1 - 3 Units
Prerequisite(s): Will vary with each special topic course.
Term Typically Offered: Fall, Spring

Advanced special topics in Geology that may include structural geology, volcanology, hydrogeology, engineering geology or other specialized topics selected to meet student demand or respond to industry trends in geology.

GEOL 275. Quantitative and Numerical Research Methods. 3 Units
Prerequisite(s): MATH 31
Term Typically Offered: Fall, Spring

Introduction to quantitative and numerical methods of solving geologic problems using high level programming.

GEOL 290. Regional Geology of the Western US. 3 Units
Prerequisite(s): GEOL 100, GEOL 102, GEOL 103 and GEOL 110A.
Term Typically Offered: Fall, Spring

Application of advanced geological concepts in tectonics, stratigraphy, sedimentology, petrology, and volconism to the geologic evolution of the Western United States from Precambrian to present. Field trip. Course Fee.
Field trip(s) may be required.

GEOL 293. Engineering Geology. 3 Units
Prerequisite(s): GEOL 193C.
Term Typically Offered: Fall, Spring

Takes a geological approach to evaluating engineering issues associated with building with or on natural earthen materials. Rock and soil mechanics, slope stability, geophysical investigation of rock and soil properties.
Note: 150 minutes Lecture = 3 units.

GEOL 299. Special Problems in Geology. 1 - 4 Units
Prerequisite(s): Graduate-level status in geology, approval of project by a faculty sponsor and Department Chair; instructor permission.
Term Typically Offered: Fall, Spring

Graduate research. Independent research in geology that may include library research, short-term original research, technique development, fieldwork, or laboratory research. May include research toward thesis proposal. Culminating experience will be in the form of a written report, oral presentation, or scientific paper.

GEOL 500. Master's Thesis. 6 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree. Should be taken in the final semester prior to the completion of all requirements for the degree.

GEOL 596. Comprehensive Examination. 0 Units
Term Typically Offered: Fall, Spring

A written comprehensive examination administed by a committee of three faculty members. Assesses the student's ability to integrate knowledge from core and elective courses, show critical and independent thinking, and demonstrate mastery of the subject matter. Required for the non-thesis option. Graded: CR/NC. May be retaken one time after 4 calendar months. Units: 0.
Credit/No Credit

BA in Earth Science

Units required for Major: 62-64

Program Description

The BA degree program is designed as a shorter, more flexible preparation for some geology jobs, earth science teaching in high school (see Subject Matter Program (http://catalog.csus.edu/colleges/natural-

sciences-mathematics/geology/subject-matter-program/)), and jobs such as park naturalist, environmentalist, geologic planning specialist, or in geology-related businesses. The BA degree can be used in dual-track majors combining geology with biological sciences, chemistry, physics, or engineering.

Program Requirements

Code	Title	Units
Required Lower Division Courses (37-38 Units)		
Select one of the following introductory Geology lecture-lab combinations:		4
GEOL 5	Geology Of Mexico	
GEOL 7 & GEOL 8L	Natural Disasters Earth Science Lab	
GEOL 8 & 8L	Earth Science Earth Science Lab	
GEOL 10 & 10L	Physical Geology Physical Geology Lab	
Each of the remaining courses as follows:		
ASTR 4B	Introduction to Stars, Galaxies, and Cosmology	3
ASTR 6	Astronomical Observation Laboratory	1
BIO 1 & BIO 2	Biodiversity, Evolution and Ecology Cells, Molecules and Genes	9 - 10
or BIO 7	Introduction to the Science of Biology	
CHEM 1A	General Chemistry I	5
or CHEM 6A	Introduction to General Chemistry	
GEOL 12	Historical Geology	3
GEOL 12L	Historical Geology Lab	1
MATH 26A	Calculus I for the Social and Life Sciences	3
PHYS 5A & PHYS 5B	General Physics: Mechanics, Heat, Sound General Physics: Light, Electricity and Magnetism, Modern Physics	8
Required Upper Division Courses (26 Units)		
GEOG 111	Elements Of Meteorology	3
GEOL 103	Sedimentology/Stratigraphy	4
GEOL 111A	Field Geology	2
GEOL 111B	Field Techniques	2
GEOL 130	Oceanography	3
Select 6 units from the following:		6
GEOL 105	Paleontology	
GEOL 110A	Structural Geology and Tectonics	
GEOL 114	Volcanology	
GEOL 120	Surficial Processes	
GEOL 121	Geology of California	
GEOL 140	Geology and the Environment	
GEOL 184	Geological Field Trip	
Select 6 units not taken previously from the following:		6
ANTH 124	Environmental Archaeology	
ANTH 151	Human Paleontology	
ENGL 120P	Professional Writing	
GEOG 113	Climate [1]	
GEOG 116	Global Climate Change	
GEOG 117	Landforms	
GEOG 161	California's Water Resources	
JOUR 131	Data Journalism	
PHIL 125	Philosophy Of Science	
RPTA 153	Environmental Interpretation	
Select 3-5 other upper-division geology courses with permission of instructor		
Total Units		63-64

[1] Indicates courses recommended for students wishing to prepare for CSET Exam for teaching high school science.

BA in Earth Science

Units required for Major: 62-64
Total units required for BA: 120

Program Description

The BA degree program is designed as a shorter, more flexible preparation for some geology jobs, earth science teaching in high school (see Subject Matter Program (p. 889)), and jobs such as park naturalist, environmentalist, geologic planning specialist, or in geology-related businesses. The BA degree can be used in dual-track majors combining geology with biological sciences, chemistry, physics, or engineering.

Program Requirements

Code	Title	Units
Required Lower Division Courses (37-38 Units)		
Select one of the following introductory Geology lecture-lab combinations:		4
GEOL 5	Geology Of Mexico [1]	
GEOL 7 & GEOL 8L	Natural Disasters Earth Science Lab [1]	
GEOL 8 & 8L	Earth Science Earth Science Lab [1]	
GEOL 10 & 10L	Physical Geology Physical Geology Lab [1]	
Each of the remaining courses as follows:		
ASTR 4B	Introduction to Stars, Galaxies, and Cosmology	3
ASTR 6	Astronomical Observation Laboratory	1
BIO 1 & BIO 2	Biodiversity, Evolution and Ecology Cells, Molecules and Genes [1]	9 - 10
or BIO 7	Introduction to the Science of Biology	
CHEM 1A	General Chemistry I	5
or CHEM 6A	Introduction to General Chemistry	
GEOL 12	Historical Geology	3
GEOL 12L	Historical Geology Lab	1
MATH 26A	Calculus I for the Social and Life Sciences [1]	3
PHYS 5A & PHYS 5B	General Physics: Mechanics, Heat, Sound General Physics: Light, Electricity and Magnetism, Modern Physics	8
Required Upper Division Courses (26 Units)		
GEOG 111	Elements Of Meteorology	3
GEOL 103	Sedimentology/Stratigraphy	4
GEOL 111A	Field Geology	2
GEOL 111B	Field Techniques	2
GEOL 130	Oceanography [1]	3

Select 6 units from the following:		6
GEOL 105	Paleontology	
GEOL 110A	Structural Geology and Tectonics	
GEOL 114	Volcanology	
GEOL 120	Surficial Processes	
GEOL 121	Geology of California	
GEOL 140	Geology and the Environment	
GEOL 184	Geological Field Trip	
Select 6 units not taken previously from the following:		6
ANTH 124	Environmental Archaeology	
ANTH 151	Human Paleontology	
ENGL 120P	Professional Writing	
GEOG 113	Climate [2]	
GEOG 116	Global Climate Change	
GEOG 117	Landforms	
GEOG 161	California's Water Resources	
JOUR 131	Data Journalism	
PHIL 125	Philosophy Of Science	
RPTA 153	Environmental Interpretation	
Select 3-5 other upper-division geology courses with permission of instructor		
Total Units		63-64

1 Course also satisfies General Education (GE)/Graduation Requirement.

2 Indicates courses recommended for students wishing to prepare for CSET Exam for teaching high school science.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]		0
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		36

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BA in Geology

Units required for Major: 65-70
Total units required for BA: 120

Program Description

The BA degree program is designed as a shorter, more flexible preparation for some geology jobs, earth science teaching in high school, and jobs such as park naturalist, environmentalist, geologic planning specialist, or in geology-related businesses. The BA degree can be used in dual-track majors combining geology with biological sciences, chemistry, physics, or engineering.

Program Requirements

Code	Title	Units
Required Lower Division Courses (21-26 Units)		
CHEM 1A	General Chemistry I	5

GEOL 5	Geology Of Mexico [1]	4
or GEOL 10	Physical Geology	
& 10L	Physical Geology Lab	
GEOL 11 Digital Methods in Geoscience		1
GEOL 12	Historical Geology	3
GEOL 12L	Historical Geology Lab	1
MATH 26A	Calculus I for the Social and Life Sciences [1]	3 - 8
or MATH 29	Pre-Calculus Mathematics	
& MATH 30	Calculus I	
PHYS 5A	General Physics: Mechanics, Heat, Sound	4
or PHYS 11A	General Physics: Mechanics	
Required Upper Division Courses (44 Units)		
GEOL 100	Earth Materials - Rocks and Minerals	4
GEOL 103	Sedimentology/Stratigraphy	4
GEOL 110A	Structural Geology and Tectonics	4
GEOL 110B	Structural Geology Field	1
GEOL 111A	Field Geology	2
GEOL 111B	Field Techniques	2
GEOL 121	Geology of California	3
GEOL 130	Oceanography	3
or GEOL 180		
GEOL 140	Geology and the Environment	3
GEOL 189 Geology Colloquium		2
Select at least 16 units of the following:		16
GEOL 101	Optical Mineralogy	
GEOL 102	Igneous and Metamorphic Petrology	
GEOL 105	Paleontology	
GEOL 112	Geophysics For Geologists	
GEOL 114	Volcanology	
GEOL 120	Surficial Processes	
GEOL 123	Geochemistry	
GEOL 125	Metallic Ore Deposits	
GEOL 126	Environmental Field Methods	
GEOL 127	Hydrogeology	
GEOL 132	Marine Geology	
GEOL 150	Computer Mapping in Geology	
GEOL 171	Petroleum Geology	
GEOL 190A	Geology and Tectonic Development of California Seminar	
GEOL 193C	Engineering Geology	
GEOL 198A	Senior Research Preparation	
GEOL 198B	Senior Research Project	
GEOL 188	Advanced Geologic Mapping	
Total Units		65-70

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		42

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BS in Geology

Units required for Major: 72
Total units required for BS: 120

Program Description

The BS in Geology (General Geology) degree program is designed to prepare students for professional employment or advanced study in geology. The Geology program emphasizes a strong background in the major areas of geology including: mineralogy, petrology, stratigraphy, structural geology, field mapping, and report writing.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (26 Units)		
CHEM 1A	General Chemistry I	5
GEOL 10 & 10L	Physical Geology Physical Geology Lab	4
or GEOL 5	Geology Of Mexico	
GEOL 11	Digital Methods in Geoscience	1
GEOL 12	Historical Geology	3
GEOL 12L	Historical Geology Lab	1
MATH 30	Calculus I [1]	4
PHYS 5A	General Physics: Mechanics, Heat, Sound	4
or PHYS 11A	General Physics: Mechanics	
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics	4
or PHYS 11B	General Physics: Heat, Light, Sound, Modern Physics	
Required Upper Division Core Courses (46 Units)		
GEOL 100	Earth Materials - Rocks and Minerals	4
GEOL 103	Sedimentology/Stratigraphy	4
GEOL 110A	Structural Geology and Tectonics	4
GEOL 110B	Structural Geology Field	1
GEOL 111A	Field Geology	2
GEOL 111B	Field Techniques	2
GEOL 121	Geology of California	3
GEOL 189	Geology Colloquium	2
Select from the following concentrations:		24
General Geology		
Hydrogeology		
Total Units		72

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Concentration in General Geology

Code	Title	Units
Required Courses (12 Units)		
GEOL 101	Optical Mineralogy	2
GEOL 102	Igneous and Metamorphic Petrology	4
GEOL 188	Advanced Geologic Mapping	6
Elective Courses (12 Units)		
Select at least 12 units from the following:		12
GEOL 105	Paleontology	
GEOL 112	Geophysics For Geologists	
GEOL 114	Volcanology	
GEOL 120	Surficial Processes	
GEOL 123	Geochemistry	
GEOL 125	Metallic Ore Deposits	
GEOL 126	Environmental Field Methods	
GEOL 127	Hydrogeology	
GEOL 132	Marine Geology	
GEOL 150	Computer Mapping in Geology	
GEOL 171	Petroleum Geology	
GEOL 190A	Geology and Tectonic Development of California Seminar	
GEOL 193C	Engineering Geology	
GEOL 198A	Senior Research Preparation	
GEOL 198B	Senior Research Project	
Total Units		24

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		

Area E Course	3
Total Units	42

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BS in Geology (Hydrogeology)

Units required for Major: 72
Total units required for BS: 120

Program Description

The BS in Geology with a concentration in Hydrogeology is designed to prepare students for professional employment or further studies in hydrogeology and water resources. The program emphasizes the fundamentals of geology, including mineralogy/petrology, stratigraphy, structural geology, and field geology, then builds on this foundation with coursework focusing on the water cycle and related Earth processes.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (26 Units)		
CHEM 1A	General Chemistry I	5
GEOL 10	Physical Geology	4
& 10L	Physical Geology Lab	
or GEOL 5	Geology Of Mexico	
GEOL 11 Digital Methods in Geoscience		1
GEOL 12	Historical Geology	3
GEOL 12L	Historical Geology Lab	1
MATH 30	Calculus I [1]	4
PHYS 5A	General Physics: Mechanics, Heat, Sound	4
or PHYS 11A	General Physics: Mechanics	
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics	4
or PHYS 11B	General Physics: Heat, Light, Sound, Modern Physics	
Required Upper Division Core Courses (22 Units)		
GEOL 100	Earth Materials - Rocks and Minerals	4
GEOL 103	Sedimentology/Stratigraphy	4
GEOL 110A	Structural Geology and Tectonics	4
GEOL 110B	Structural Geology Field	1
GEOL 111A	Field Geology	2
GEOL 111B	Field Techniques	2
GEOL 121	Geology of California	3
GEOL 189 Geology Colloquium		2
Concentration (24 Units)		
Select from the following concentrations:		24
General Geology		
Hydrogeology		
Total Units		72

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Concentration in Hydrogeology (24 units)

Code	Title	Units
Required Courses (9 Units)		
CHEM 1B	General Chemistry II	5
GEOL 127	Hydrogeology	4
Elective Courses (15 Units)		
Select at least 6 units from the following three classes:		15
GEOL 120	Surficial Processes	
GEOL 123	Geochemistry	
GEOL 126	Environmental Field Methods	
Remaining elective units may come from the following classes:		
GEOL 101 Optical Mineralogy		
GEOL 102	Igneous and Metamorphic Petrology	
GEOL 105	Paleontology	
GEOL 112	Geophysics For Geologists	
GEOL 114	Volcanology	
GEOL 125	Metallic Ore Deposits	
GEOL 132	Marine Geology	
GEOL 150	Computer Mapping in Geology	
GEOL 171	Petroleum Geology	
GEOL 188	Advanced Geologic Mapping	
GEOL 193C	Engineering Geology	
GEOL 198A	Senior Research Preparation	

GEOL 198B	Senior Research Project	
Total Units		24

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		42

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Minor in Geology

Units required for Minor: 18

Program Description

Geology is the study of the earth, its environments, and its history. It is an interdisciplinary science that combines geological observations and concepts with those of biology, chemistry, physics, and mathematics. Its goals are to study rocks, minerals, fossils, and energy and water resources, and to understand geologic principles and processes that shape the earth and its environments.

Program Requirements

Code	Title	Units
GEOL 10	Physical Geology	3
GEOL 10L	Physical Geology Lab	1
GEOL 12	Historical Geology	3
GEOL 12L	Historical Geology Lab	1
Select 10 units of upper division courses in Geology electives [1]		10
Total Units		18

1. Students wishing to minor in Geology must contact a Geology advisor before beginning upper division work in Geology.

MS in Geology

Total units required for MS: 30

Program Description

The graduate program in Geology offers coursework, fieldwork experience, and research that will lead to a Master of Science degree in Geology. It allows students who successfully complete the program to upgrade their educational qualifications and advance to doctoral programs or professional positions that require an in-depth knowledge of hydrogeology, environmental geology, and geologic hazards. The University's location in the state capital provides direct access to many local, federal, and state agencies through internship and fieldwork opportunities.

Each student should plan a program according to his/her background, interests and objectives, in consultation with a faculty advisor. Students are required to consult with an advisor prior to admission to the program or initiation of graduate study. For information on how to select an advisor, students should contact the Geology Department Office.

Graduate students who want to engage in teaching as professionals can apply for an appointment as a Graduate Teaching Associate. Graduate Teaching Associates have the opportunity to teach one to three lower division laboratory courses per semester and are paid at a rate commensurate with their teaching load.

All work toward the degree must be completed within a seven-year period. The general University requirements for graduate degrees are explained in the 'Graduate Studies' section of this Catalog or visit the Geology Department's website (http://www.csus.edu/geology/).

Admission Requirements

Admission as a classified graduate student in Geology requires:

- a degree in Geology, or 24 units of equivalent upper-division coursework in Geology which must have been passed with a grade of 'C-' or better and includes:

Code	Title	Units
GEOL 10	Physical Geology	3
GEOL 10L	Physical Geology Lab	1
GEOL 100	Earth Materials - Rocks and Minerals	4
GEOL 102	Igneous and Metamorphic Petrology	4
GEOL 103	Sedimentology/Stratigraphy	4
GEOL 110A	Structural Geology and Tectonics	4
GEOL 111A	Field Geology	2
GEOL 111B	Field Techniques	2
Total Units		24

  These core undergraduate courses cannot be used as graduate electives by students who do not hold a degree in Geology or equivalent;
- a minimum 2.75 GPA in all Geology, Chemistry, Math and Physics courses, and a minimum 3.0 GPA in upper division Geology courses;
- three letters of recommendation from persons familiar with your academic record and professional capabilities, sent directly to the Department;
- a brief statement of interest, faculty sponsorship, area of specialty and long-term goals;
- two semesters of inorganic Chemistry with a lab (CHEM 1A and CHEM 1B);
- two semesters of Physics with a lab (PHYS 11A and PHYS 11B or PHYS 5A and PHYS 5B); and
- two semesters of Math (MATH 30 and MATH 31).

Students who have deficiencies in Admission Requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any deficiencies will be noted on a written response to the admission application. You must be admitted to the degree program before graduate level courses will count toward the degree.

Admission Procedures

All prospective classified graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies:

- an online application for admission;
- an application for admission to the Geology Graduate Program; and
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State*.

For more admissions information and application deadlines please visit the Office of Graduate Studies website *(*http://www.csus.edu/gradstudies/*).*

Applications are accepted as long as space for new students exists. A decision regarding admission will be mailed to the applicant upon receipt of all items listed above.

Minimum Units and Grade Requirement for the Degree

Units for the MS: 30

Minimum Cumulative GPA: 3.0

- Students must maintain an overall GPA of 3.0 or better in the Program. This means that students who earn a 'C' grade in a course can count it towards advancement to candidacy (and count it towards graduation) as long as the overall cumulative GPA remains a 3.0 or better. No more than 6 units of 'C' grade will be accepted for graduate credit.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA, including at least two courses at the 200-level; Students must maintain an overall GPA of 3.0 or better in the Program. This means that students who earn a 'C' grade in a course can count it towards advancement to candidacy (and count it towards graduation) as long as the overall cumulative GPA remains a 3.0 or better. No more than 6 units of 'C' grade will be accepted for graduate credit.
- obtained the graduate committee's acceptance of the thesis proposal; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student must fill out the form after planning a degree program in consultation with his/her faculty advisor. After approval by the Geology Department Graduate Committee, the completed form is returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Core Courses (9 Units)		**9**
GEOL 200	Graduate Research Methods Seminar	3
GEOL 275	Quantitative and Numerical Research Methods	3
GEOL 290	Regional Geology of the Western US	3
Graduate electives (15-21 Units)		
Select 15-21 units of the following: [1]		15 - 21
GEOL 202	Aqueous Geochemistry	
GEOL 204	Contaminant Hydrogeology	

GEOL 208	Groundwater Modeling	
GEOL 212	Geologic Remote Imaging	
GEOL 213	Advanced Structural Geology and Tectonics	
GEOL 218	Applied Geophysics	
GEOL 220	Surficial Processes	
GEOL 227	Advanced Hydrogeology	
GEOL 230	Seminar In Geology	
GEOL 240	Special Topics	
GEOL 293	Engineering Geology	
GEOL 299	Special Problems in Geology	
Culminating Requirements (0-6 Units)		
Select one of the following plans:		0 - 6
Plan A		
GEOL 500	Master's Thesis	
Plan B		
GEOL 596	Comprehensive Examination	
Total Units		30-36

[1] Courses taken to meet the graduate core requirement will not count as elective courses. Elective courses (including GEOL 299) will be selected with prior approval of the student's faculty advisor in the area of interest. In addition to 200-level courses, these may also include up to 6 units of approved technical electives (but not the required courses) from the undergraduate curriculum. Not more than 3 units of GEOL 299 may be taken without prior approval of the Graduate Coordinator.

Mathematics and Statistics

College of Natural Sciences and Mathematics

Program Description

In today's highly technological society, the study of Mathematics takes on an increasingly important role. The Sacramento State Mathematics Department designs its courses with the goal of providing students with the mathematical concepts appropriate to the student's field.

The program consists of sequences of courses that lead to a Bachelor of Arts with a major in Mathematics, with emphasis in Pure Mathematics, Applied Mathematics, Statistics, or a Teacher Preparation Program. A minor in Mathematics or Statistics and a Master of Arts in Mathematics is also offered.

Degree Programs

Minor in Mathematics (p. 869)

Minor is Statistics (p. 870)

BA in Mathematics (p. 864)

Integrated Mathematics Major/Single Subject Credential Program (p. 866)

MA in Mathematics (p. 868)

Special Features

- The study of mathematics at Sacramento State has several strong advantages. The flexibility of the major gives students enough freedom to mold their degree along their particular interest.
- An excellent computer facility gives mathematics students easy access to the campus computer resources.
- Currently there is a demand for majors in mathematics with training in applied mathematics and statistics. Program graduates have had success in finding employment in public and private sectors.
- Since there is presently a need for high school mathematics teachers, some majors pursue a secondary teaching career. Graduate students in mathematics are finding opportunities for public and private employment in jobs requiring more advanced training in mathematics and statistics. Sacramento State Master's Degree graduates now teach at community colleges throughout the state. Upper division majors may check with the mathematics administrative support coordinator on the possibility of applying for paid positions as student assistants.
- Student assistants work from 10-20 hours per week in math-related duties on campus.

Note: Students interested in a major or minor in mathematics should contact the Department secretary for an advising appointment with a mathematics advisor.

Career Possibilities

Mathematics Teacher · Mathematician · Encryption Analyst · Quantitative Analyst · Engineering Analyst · Systems Analyst · Operations Analyst · Actuary · Risk Analyst · Image Scientist · Technical Writer · Statisticians involved in: Surveying/Polling, Biology/Agriculture, Business/Economics, Physical Sciences/Engineering

Contact Information

David Zeigler, Department Chair
Dawn Giovannoni, Administrative Support Coordinator
Brighton Hall 141
(916) 278-6534
Department of Mathematics & Statistics (http://www.csus.edu/math/)

Faculty

CETIN, COSKUN

CUMMINGS, JAY

DIAZ-ESCAMILLA, RAFAEL E.

DOMOKOS, ANDRAS

ELCE, KIMBERLY

GHOSH HAJRA, SAYONITA

HAMILTON, TRACY

HIGGINS, ABIGAIL

KASIMATIS, ELAINE A.

KRAUEL, MATTHEW

LU, BIN

MORRIS, BARBARA

NORRIS, ANN MICHELLE

PIGNO, VINCENT

PRAJS, JANUSZ

SCHULTE, THOMAS R.

SHANBROM, COREY

TAYLOR, LISA

TIMMONS, CRAIG

VANVALKENBURGH, MICHAEL

WISCONS, JOSHUA

WISCONS, TOPAZ

ZEIGLER, DAVID

ZHONG, JIANYUAN KATHY

MATH 1. Mathematical Reasoning. 3 Units
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Recommended for students whose majors do not include a specific mathematics requirement. Objectives are to show some of the essence and quality of mathematics, and to enhance precision in the evaluation and expression of ideas, thereby developing a student's quantitative reasoning skills. Designed to give students an understanding of some of the vocabulary, methods, and reasoning of mathematics with a focus on ideas.

MATH 10. Essentials of Algebra. 3 Units
Term Typically Offered: Fall, Spring, Summer

Prepares students for courses requiring fundamental algebra skills. Topics include: review of basic algebra; scientific notation, rounding, and percents; factoring; exponents; linear equations and inequalities with applications; quadratic equations with applications; graphing with applications; absolute value equations and inequalities; systems of linear equations and inequalities; and an introduction to exponential and logarithmic expressions.

MATH 12. Algebra for College Students. 4 Units
Term Typically Offered: Fall, Spring, Summer

Prepares students for Pre-calculus and other higher math courses requiring intermediate algebra. Topics include: linear equations and inequalities, absolute value equations and inequalities, systems of linear equations, quadratic equations, polynomial expressions and equations, rational expressions and equations, roots and radicals, and exponential & logarithmic properties and equations.

MATH 15H. Honors Mathematical Reasoning. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Introduction to the composition and interpretation of mathematical ideas and to the mathematical reasoning necessary to derive results in a variety of mathematical topics. Emphasis on developing concepts and analyzing results.

MATH 17. An Introduction to Exploration, Conjecture, and Proof in Mathematics. 3 Units
Prerequisite(s): Score of 46 or higher on ALEKS PPL exam or MATH 10
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Prepares students for MATH 107A and MATH 107B. Students will explore mathematical patterns and relations, formulate conjectures, and prove their conjectures. Topics from number theory, probability and statistics, and geometry.

MATH 24. Modern Business Mathematics. 3 Units
Prerequisite(s): Score of 51 or higher on ALEKS PPL exam or MATH 10
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Mathematics for business world, including functions, math of finance, linear programming and rates of change. Applications to economics and business will be emphasized throughout.

MATH 26A. Calculus I for the Social and Life Sciences. 3 Units
Prerequisite(s): Score of 61 or higher on ALEKS PPL exam or MATH 12
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Limits, differentiation with applications, integration and applications in the Social Sciences and Life Sciences.

MATH 26B. Calculus II for the Social and Life Sciences. 3 Units
Prerequisite(s): MATH 26A or appropriate high school based AP credit.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Continuation of MATH 26A, integration and applications to the Social Sciences and Life Sciences. Multi-variate analysis including partial differentiation and maximization subject to constraints; elementary differential equations; sequences and series. Calculus of the trigonometric functions as time allows.
Note: Not open to students already having credit for MATH 31 or equivalent.

MATH 29. Pre-Calculus Mathematics. 4 Units
Prerequisite(s): Score of 61 or higher on ALEKS PPL exam or MATH 12
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Designed to prepare students for calculus. Topics: trigonometry, points and lines in the Cartesian plane; lines and planes in space; transformation of coordinates; the conics; graphs of algebraic relations; the elementary transcendental functions.

MATH 29A. Pre-Calculus Mathematics A. 2 Units
Prerequisite(s): MATH 12
Term Typically Offered: Fall, Spring, Summer

First semester of a two semester course that is designed to prepare students for calculus. Topics: functions and graphs, polynomial functions, rational functions and applications. Lecture two hours.

MATH 29B. Pre-Calculus Mathematics B. 2 Units
Prerequisite(s): MATH 29A.
Corequisite(s): MATH 29M.
Term Typically Offered: Fall, Spring, Summer

Second semester of a two semester course that is designed to prepare students for calculus. Topics: exponential and logarithmic functions, trigonometric functions, analytic geometry, and applications. Lecture two hours.

MATH 29L. Lab for Pre-Calculus Math A. 1 Unit
Corequisite(s): MATH 29B.
Term Typically Offered: Fall, Spring

Workshop designed to deepen the understanding of pre-calculus developed in MATH 29A.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree.
Laboratory

MATH 29M. Lab for Pre-Calculus Math B. 1 Unit
Corequisite(s): MATH 29B.
Term Typically Offered: Fall, Spring

Workshop designed to deepen the understanding of pre-calculus developed in MATH 29B.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree.
Laboratory

MATH 30. Calculus I. 4 Units
Prerequisite(s): Score of 76 or higher on ALEKS PPL exam or MATH 29 or MATH 29B
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Functions and their graphs; limits; the derivative and some of its applications; trigonometric and hyperbolic functions and their inverses; the integral; the fundamental theorem; some applications of the integral.

MATH 30L. Laboratory for First Semester Calculus. 1 Unit
Corequisite(s): Enrollment in a designated section of MATH 30.
Term Typically Offered: Fall, Spring

Workshop designed to deepen the understanding of calculus developed in MATH 30.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree.
Laboratory

Credit/No Credit

MATH 31. Calculus II. 4 Units
Prerequisite(s): MATH 30 or appropriate high school based AP credit.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

MATH 30 continuation. Methods of integration; improper integrals; analytic geometry; infinite sequences and series.

MATH 31L. Laboratory for Second Semester Calculus. 1 Unit
Corequisite(s): Enrollment in a designated section of MATH 31.
Term Typically Offered: Fall, Spring, Summer

Workshop designed to deepen the understanding of calculus developed in MATH 31.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree.
Laboratory

Credit/No Credit

MATH 32. Calculus III. 4 Units
Prerequisite(s): MATH 31.
Term Typically Offered: Fall, Spring, Summer

Continuation of Calculus II. Algebra and calculus of vectors; functions of several variables; partial differentiation; multiple integration; vector analysis.

MATH 35. Introduction to Linear Algebra. 3 Units
Prerequisite(s): MATH 30 or appropriate high school based AP credit.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Careful development of matrices, systems of equations, determinants, vector spaces, linear transformations, orthogonality, real and complex eigenvalues; R3 viewed as a vector space with generalization to Rn.

MATH 45. Differential Equations for Science and Engineering. 3 Units
Prerequisite(s): MATH 31.
Term Typically Offered: Fall, Spring, Summer

First order differential equations, second order differential equations with constant coefficients. Laplace transforms, small systems of linear differential equations, numerical methods, introduction to second order differential equations with variable coefficients.

MATH 96E. Elem Math Content Adv Viewpoin. 1 Unit
Term Typically Offered: Fall, Spring, Summer

MATH96E is a 1-unit, 1-week early start course for baccalaureate credit designed to prepare students for fall GE area B4. Working independently and collaboratively, students will use an inquiry-based approach to learning through research, reflection, and engagement with real world scenarios. Students will develop various academic literacies in order to understand the conventions of quantitative reasoning required for success in a college setting.
Cross listed: ALS 96

Credit/No Credit

MATH 99. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Permits a student to pursue study and research in an area not otherwise available through the regular curriculum.
Note: Open only to students who appear competent to carry on individual work; admission requires the approval of the faculty member under whom individual work is to be conducted, and approval of the advisor and the Department Chair.

Credit/No Credit

MATH 100. Applied Linear Algebra. 3 Units
Prerequisite(s): MATH 26B or MATH 31.
Term Typically Offered: Fall, Spring

Linear algebra and its elementary applications. Topics: Matrix algebra; simultaneous linear equations; linear dependence and vector spaces; rank and inverses; determinants; numerical solution of simultaneous linear equations; linear transformations; eigenvalues and eigenvectors; unitary and similarity transformations; quadratic forms.
Note: May not be taken for credit toward a mathematics major.

MATH 101. Combinatorics. 3 Units
Prerequisite(s): MATH 31
Term Typically Offered: Spring only

Introduction to the art of counting. The focus will be on actually listing the objects being counted in small cases and using the knowledge gained in working with small cases to build toward general principles. Sum and product principles, models of counting, permutations and combinations, equivalence relations and partitions, inclusion-exclusion principle, recurrence relations, and generating functions.

MATH 102. Number Theory. 3 Units
Prerequisite(s): MATH 31.
Term Typically Offered: Fall, Spring

Theory of divisibility; some number theoretical functions; congruencies (linear and quadratic); some Diophantine equations. Simple continued fractions.

MATH 104. Vector Analysis. 3 Units
Prerequisite(s): MATH 32.
Term Typically Offered: Spring only

Vector and scalar fields, integral theorems, orthogonal curvilinear coordinates, vector spaces and linear transformations, applications to physical fields and operators.

MATH 105A. Advanced Mathematics for Science and Engineering I. 4 Units
Prerequisite(s): MATH 32, MATH 45.
Term Typically Offered: Fall only

Survey of second order linear differential equations, power series and Fourier series solutions, solution of partial differential equations by separation of variables.

MATH 105B. Advanced Mathematics for Science and Engineering II. 4 Units
Prerequisite(s): MATH 105A.
Term Typically Offered: Spring only

Partial differential equations continued, complex function theory and its applications.

MATH 107A. Fundamental Mathematical Concepts. 3 Units
Prerequisite(s): MATH 17 and either a score of 46 or higher on ALEKS PPL exam or MATH 10
Term Typically Offered: Fall, Spring

First half of a one-year course in the structure of the real number system and its sub-systems and in the basic properties and concepts of geometry. Topics will include: definitions and properties of set theory and their use in the development of the natural and whole number systems, definitions and properties of the arithmetic relations and operations for the natural numbers, whole numbers, integers.
Note: May not be taken for credit toward a mathematics major or minor.

MATH 107B. Fundamental Mathematical Concepts. 3 Units
Prerequisite(s): MATH 107A.
Term Typically Offered: Fall, Spring

Continuation of MATH 107A. Topics will include: rational numbers, real numbers, measurement, Euclidean Geometry.
Note: May not be taken for credit toward a mathematics major or minor.

MATH 107C. Elementary Mathematics and the Learning Process. 3 Units
Prerequisite(s): MATH 17, MATH 107A or MATH 107B, and CHDV 30 or CHDV 35.
Term Typically Offered: Fall, Spring

Students will build on their understanding of material of Math 17, Math 107A/B by deepening their understanding of the concepts taught in these courses. This will be done by examining these concepts in relationship to theories of learning and development. Students will examine mathematical concepts related to K-8 with respect to the treatment of reasoning, communication, and the perspective of cognitive and social constructivism; and throughout the course will consider the question of 'What is mathematics?' and 'How is mathematics learned?

MATH 108. Introduction to Formal Mathematics. 3 Units
Prerequisite(s): MATH 31, MATH 35.
Term Typically Offered: Fall, Spring

Logic of mathematical proof, set theory, relations, functions. Examples and applications from set cardinality, algebra, and analysis.

MATH 110A. Modern Algebra. 3 Units
Prerequisite(s): MATH 108.
Term Typically Offered: Fall, Spring

First half of a one-year introductory course in algebraic concepts. Topics include: groups, subgroups, properties of groups, permutation groups, factor groups, homomorphism theorems.

MATH 110B. Modern Algebra. 3 Units
Prerequisite(s): MATH 110A.
Term Typically Offered: Fall, Spring

Continuation of MATH 110A.
Note: Topics include

MATH 117. Linear Algebra. 3 Units
Prerequisite(s): MATH 110A.
Term Typically Offered: Fall, Spring

Abstract linear spaces and linear transformations; invariant subspaces; canonical forms.

MATH 121. College Geometry. 3 Units
Prerequisite(s): MATH 31; MATH 32 or MATH 35.
Term Typically Offered: Fall, Spring

Study of the axioms and theorems of Euclidean geometry. A comparison of several geometry axiom systems and their theorems, including those of some non-Euclidean and finite geometries.

MATH 130A. Functions of a Real Variable. 3 Units
Prerequisite(s): MATH 32 and MATH 108.
Term Typically Offered: Fall, Spring

First half of a one-year upper division course in functions of a real variable. The first semester will consist of a rigorous development of the theory of real-valued sequences and continuity and differentiation for functions of one real variable.

MATH 130B. Functions of a Real Variable. 3 Units
Prerequisite(s): MATH 130A.
Term Typically Offered: Fall, Spring

Continuation of MATH 130A. This semester will be devoted to a rigorous development of the theory of Riemann integration, infinite series, and sequences and series of functions.

MATH 134. Functions of a Complex Variable and Applications. 3 Units
Prerequisite(s): MATH 32.
Term Typically Offered: Spring only

Complex plane; analytic functions; integration and Cauchy's Theorem; sequences and series; residue calculus; applications to potential theory; Fourier and Laplace transforms.

MATH 150. Introduction to Numerical Analysis. 3 Units
Prerequisite(s): MATH 31
Term Typically Offered: Spring only

Numerical solutions of algebraic and transcendental equations; interpolation, inverse interpolation, finite differences, cubic splines, and applications; numerical differentiation and integration; direct and iterative numerical solutions of linear systems; discrete and continuous least squares approximation.

MATH 161. Mathematical Logic. 3 Units
Prerequisite(s): MATH 108.
Term Typically Offered: Fall, Spring

Advanced study of logic with special application to mathematics.

MATH 162. Set Theory. 3 Units
Prerequisite(s): MATH 108.
Term Typically Offered: Fall only

Axiomatic study of set theory. Topics usually considered include: relations and functions; set theoretical equivalence; finite and infinite sets; cardinal arithmetic; ordinal numbers and transfinite induction; variants of the Axiom of Choice.

MATH 170. Linear Programming. 3 Units
Prerequisite(s): MATH 31; MATH 35 or MATH 100.
Term Typically Offered: Fall only

Theory of linear programming, duality, simplex method, integer programming, applications.

MATH 190. History Of Mathematics. 3 Units
Prerequisite(s): MATH 31 and upper division status in mathematics.
Term Typically Offered: Fall, Spring

Study of the development of mathematical ideas and techniques and their impact on the general course of the history of western civilization.

MATH 193. Capstone Course for the Teaching Credential Candidate. 3 Units
Prerequisite(s): Successful completion of at least five of the following: MATH 102, MATH 110A, MATH 110B, MATH 121, MATH 130A, MATH 130B or MATH 190; MATH 110A or MATH 130A may be taken concurrently.
Term Typically Offered: Fall, Spring

Reviews the major themes presented in the upper division program in Mathematics, and relates the themes to junior high school and high school curriculum. Required for all subject matter students.
Note: Not accepted for credit for non-Teaching Credential students.

MATH 196K. Introduction to Differential Geometry. 3 Units
Prerequisite(s): MATH 32, and MATH 35 or instructor's permission
Term Typically Offered: Spring only

Calculus methods are applied to the study of curves and surfaces in three dimensional space. After an introduction to the geometry of curves (curvature, torsion, and Frenet's formulas), the course explores the geometry of surfaces. Some of the geometrical properties of a surface that will be investigated are its first and second fundamental forms, its various curvatures (normal, principal, mean, and Gaussian curvatures), and its geodesic curves.

MATH 198. Seminar for Mathematics Tutors. 2 Units
Prerequisite(s): Students must be working as tutors in a campus-based program.
Term Typically Offered: Fall, Spring

Supports Sacramento State students who are working in tutorial and related roles in mathematics programs on campus. Focus on questioning as a fundamental strategy for teaching mathematics, on classroom observation, and on communication among mathematics instructors in support of effective teaching and learning.
Note: May be repeated up to two times for credit.

Credit/No Credit

MATH 199. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to those students who appear competent to carry on individual work. Admission to this course requires the approval of the faculty member under whom the individual work is to be conducted, in addition to the approval of the advisor and the Department Chair.
Credit/No Credit

MATH 210A. Algebraic Structures. 3 Units
Prerequisite(s): MATH 110B.
Term Typically Offered: Fall, Spring

General algebraic systems and concepts; groups.

MATH 210B. Algebraic Structures. 3 Units
Prerequisite(s): MATH 210A.
Term Typically Offered: Fall, Spring

Fields; vector spaces; Galois theory.

MATH 220A. Topology. **3 Units**
Prerequisite(s): MATH 130B.
Term Typically Offered: Fall, Spring

Point set topology, continuity, compactness, connectedness.

MATH 220B. Topics In Topology. **3 Units**
Prerequisite(s): MATH 220A.
Term Typically Offered: Fall, Spring

Continuation of MATH 220A with topics selected from: General topology/ Foundations, Geometric Topology, Continuum Theory, Homology Theory, Homotopy Theory, Topological Dynamics.
Note: May be taken twice with approval of the graduate coordinator.

MATH 230A. Real Analysis. **3 Units**
Prerequisite(s): MATH 130B.
Term Typically Offered: Fall, Spring

Metric topology; the theory of the derivative; measure theory.

MATH 230B. Real Analysis. **3 Units**
Prerequisite(s): MATH 230A.
Term Typically Offered: Fall, Spring

Continuation of MATH 230A, with topics selected from: Theory of the integral, including Riemann, Riemann Stieltjes, and Lebesque integrals.
Note: May be taken twice with approval of the graduate coordinator.

MATH 234A. Complex Analysis. **3 Units**
Prerequisite(s): MATH 130B; MATH 105B or MATH 134 is recommended.
Term Typically Offered: Fall, Spring

Complex numbers, complex functions, analytic functions, complex integration, harmonic functions.

MATH 234B. Topics in Complex Analysis. **3 Units**
Prerequisite(s): MATH 234A.
Term Typically Offered: Fall, Spring

Continuation of MATH 234A with topics selected from: Partial Fractions and Infinite Products, Entire Functions, Riemann Zeta Function, Normal Families, Riemann Mapping Theorem, Conformal Mapping of Polygons, Dirihclet Problem, Analytic Continuation.
Note: May be taken twice with approval of the graduate coordinator.

MATH 241A. Methods of Applied Mathematics. **3 Units**
Prerequisite(s): MATH 134 recommended.
Term Typically Offered: Fall, Spring

Topics from: Hilbert Space Theory, Operators on Hibert Space, Generalized Functions with Applications to Sturm-Liouville Theory and Partial Differential Equations.
Note: May be repeated for credit provided topic is not repeated.

MATH 241B. Topics in Applied Mathematics. **3 Units**
Prerequisite(s): MATH 241A.
Term Typically Offered: Fall, Spring

Continuation of MATH 241A with topics: Calculus of Variations, Functional Analysis, Dynamical Systems, Integral Equations, Sobolev Spaces, Fourier Analysis, Potential Theory, and Optimal Control Theory.
Note: May be taken twice with approval of the graduate coordinator.

MATH 296B. Theory of Numbers. **3 Units**
Prerequisite(s): Math 110A or equivalent.
Term Typically Offered: Fall, Spring

This class will cover divisibility properties of the integers, primes and primality tests, modular arithmetic, Chinese Remainder Theorem, quadratic reciprocity and quadratic forms, arithmetic functions, the Mobius inversion formula, and Diophantine equations. Possible additional topics include elliptic curves, algebraic numbers, primes in arithmetic progressions, the geometry of numbers and encryption.

MATH 299. Special Problems. **1 - 6 Units**
Term Typically Offered: Fall, Spring

Any properly qualified student who wishes to pursue a problem may do so if the proposed subject is acceptable to the supervising instructor and to the student's advisor.
Credit/No Credit

MATH 316. The Psychology of Mathematics Instruction. **2 Units**
Prerequisite(s): Admission to the Mathematics Blended Program.
Term Typically Offered: Fall only

A survey course for students in the Blended Program in Mathematics that relates broad areas of educational psychology and theories of learning to instruction in the secondary mathematics classroom. The focus is on practical applications of theories through the design of lesson and unit plans. Students will design learning activities for diverse classes of learners, including English Language Learners, and build and refine assessment plans that include formative assessments. Lecture two hours.

MATH 371A. Schools and Community A. **2 Units**
Corequisite(s): Enrollment in EDTE 470A.
Term Typically Offered: Fall, Spring

The first of a two-part sequence supporting student teachers in the Mathematics Blended Program. Focus is on strategies for secondary mathematics instruction, the process of reflection on teaching, communication among mathematics teachers in support of effective teaching and learning, strategies for engagement, questioning, creating a safe classroom environment, classroom management, assessment, and familiarity with school and community resources. Emphasis on issues related to English Language Learners, special needs students, and intervention strategies. Seminar two hours.
Credit/No Credit

MATH 371B. Schools and Community B. **2 Units**
Corequisite(s): Enrollment in EDTE 470B.
Term Typically Offered: Fall, Spring

The second of a two-part sequence supporting student teachers in the Mathematics Blended Program. Focus is on strategies for secondary mathematics instruction, the process of reflection on teaching, communication among mathematics teachers in support of effective teaching and learning, strategies for engagement, questioning, creating a safe classroom environment, classroom management, assessment, and familiarity with school and community resources. Emphasis on issues related to English Language Learners, special needs students, and intervention strategies. Seminar two hours.
Credit/No Credit

MATH 500. Culminating Experience. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Directed reading programs for master's candidates preparing for written comprehensive examinations.

STAT 1. Introduction to Statistics. 3 Units
Prerequisite(s): Math 10 or a score of 51 or higher on a proctored ALEKS PPL exam.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Descriptive statistics, basic concepts of probability and sampling with the aim of introducing fundamental notions and techniques of statistical inference.

STAT 10A. Introductory Statistics with Developmental Mathematics. 3 Units
Term Typically Offered: Fall, Spring, Summer

Prepares students for STAT 10B that requires background in data analysis process, descriptive statistics and the concept of randomness. Topics include: Summarizing the data distribution graphically and numerically; reasoning about bivariate numerical data; linear correlation and regression; linear, quadratic and exponential functions as a way of modeling a correspondence between two variables; reasoning about bivariate categorical data; basic concepts of probability and the law of large numbers; conditional probability; discrete random variables; binomial distribution; and an introduction to continuous random variables. Lecture three hours.

STAT 10B. Introductory Statistics with Developmental Mathematics. 3 Units
Prerequisite(s): STAT 10A
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Spring only

Continuation of STAT 10A. Stat 10B prepares students for research methods applications/ courses in various disciplines. Topics include: Continuous random variables and normal distribution; sampling distributions and the central limit theorem; confidence intervals and tests of hypotheses for means, proportions, difference in means and difference in proportions; and chi-squared tests for categorical data analysis. Lecture three hours.

STAT 50. Introduction to Probability and Statistics. 4 Units
Prerequisite(s): MATH 26A, MATH 30, or appropriate high school based AP credit.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Sample spaces, combinatorics, and random variables. Density and distribution functions. Expectation, variance, and covariance. The binomial, uniform, poisson, negative binomial, hypergeometric, exponential, gamma, beta, and normal distributions. Sampling distributions, estimation, and hypothesis tests. Students are given periodic writing assignments which encourage them to think through concepts of the course.

STAT 96. Experimental Offerings in Statistics. 1 - 6 Units
Term Typically Offered: Fall, Spring

When there is a demand from a sufficient number of qualified students, one of the staff will conduct a seminar on some topic in statistics.

STAT 103. Intermediate Statistics. 3 Units
Prerequisite(s): STAT 50 or instructor consent
Term Typically Offered: Spring only – even years

Review of hypothesis testing --one sample. Hypothesis testing --two sample, variance. Regression and correlation. Analysis of variance including two-way. Analysis of categorical data. Non-parametric tests, goodness of fit, and tests for randomness.

STAT 115A. Introduction to Probability Theory. 3 Units
Prerequisite(s): MATH 31 and either STAT 1 or STAT 50
Term Typically Offered: Fall only

Probability axioms, discrete and continuous random variables, functions of random variables, joint densities, expectation, moment generating functions. Chebyshev's inequality, transformations, weak law of large numbers, central limit theorem.

STAT 115B. Introduction to Mathematical Statistics. 3 Units
Prerequisite(s): STAT 115A.
Term Typically Offered: Spring only

Point Estimation, interval estimation, hypothesis testing, the multivariate normal distribution, non-parametric tests.

STAT 128. Statistical Computing. 3 Units
Prerequisite(s): (STAT 1 or STAT 50) and (MATH 26A or MATH 30) or consent of the instructor.
Computer methods for accessing, transforming, summarizing, graphing and making statistical inferences from data; focus is on command-line statistical software, but menu-driven software may be introduced; application of computer methods to solve problems selected from the areas of modeling, simulation, inference and statistical learning.

STAT 155. Introduction to Techniques of Operations Research. 3 Units
Prerequisite(s): MATH 31; STAT 50, STAT 103, or STAT 115A; MATH 31 may be taken concurrently.
Term Typically Offered: Spring only – odd years

Formulation and analysis of mathematical models with emphasis on real systems applications. Introduction to Queueing theory and Markov Processes for application.

STAT 196J. Statistical Computing. 3 Units
Prerequisite(s): STAT 1 or STAT 50, and MATH 26A or MATH 30
Term Typically Offered: Fall only

Computer methods for accessing, transforming, summarizing, graphing, and making statistical inferences from data. Both a command-line statistical software package such as R and menu-driven package such as SAS will be used. Students will learn to apply computer methods to solve problems selected from the areas of modeling, simulation, inference and statistical learning. The intent of this course is to provide students with the software skills needed for statistical work in industry or academia.

STAT 199. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work. Admission to this course requires approval of the instructor in addition to the approval of the advisor and the Department Chair.
Credit/No Credit

STAT 215A. Introduction to Mathematical Statistics. 3 Units
Prerequisite(s): STAT 115A, STAT 115B; MATH 134 is recommended.
Term Typically Offered: Fall, Spring

Probability measure, conditional probability and independence, random variables, characteristic and moment-generating functions, modes of convergence.

STAT 215B. Topics in Introduction to Mathematical Statistics. 3 Units
Prerequisite(s): STAT 215A.
Term Typically Offered: Fall, Spring

Continuation of STAT 215A with topics selected from: Statistical Inference, Estimation Theory, Testing Hypotheses, Linear Models, Nonparametric Methods, Multivariate Analysis, Computer intensive methods in Statistics and Sampling Theory.
Note: May be taken twice with approval of Graduate Coordinator.

STAT 299. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Any properly qualified student who wishes to pursue a problem may do so if the proposed subject is acceptable to the department committee, the supervising instructor and the student's advisor.

BA in Mathematics

Units required for BA: 48-54
Total units required for BA: 120

Program Description

In today's highly technological society, the study of Mathematics takes on an increasingly important role. The Sacramento State Mathematics Department designs its courses with the goal of providing students with the mathematical concepts appropriate to the student's field.

Placement - Mathematics Courses

Students who have not completed four years of high school mathematics consisting of

- Beginning Algebra (one year)
- Geometry (one year)
- Intermediate Algebra-Trigonometry (one year)
- Analytic Geometry-Mathematical Analysis (one year)

may need to complete part of this preparation at the University. The following diagram, which is based upon course prerequisites and major objectives, may be of assistance in selecting the necessary coursework.

Satisfactory completion of the Entry Level Mathematics (ELM) requirement is a prerequisite to enroll ment in any mathematics or statistics course in Area B-4 (Quantitative Reasoning) of General Education. The mathematics and statistics courses listed in Area B-4 are:

Code	Title	Units
MATH 1	Mathematical Reasoning	3
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics	3
MATH 24	Modern Business Mathematics	3
MATH 26A	Calculus I for the Social and Life Sciences	3
MATH 26B	Calculus II for the Social and Life Sciences	3
MATH 29	Pre-Calculus Mathematics	4
MATH 30	Calculus I	4
MATH 31	Calculus II	4
MATH 35	Introduction to Linear Algebra	3
STAT 1	Introduction to Statistics	3
STAT 50	Introduction to Probability and Statistics	4

Students Planning to take any of the following courses must pass a diagnostic test.

Code	Title	Units
MATH 9		
MATH 11		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics	3
MATH 24	Modern Business Mathematics	3
MATH 26A	Calculus I for the Social and Life Sciences	3
MATH 29	Pre-Calculus Mathematics	4
MATH 29A	Pre-Calculus Mathematics A	2
MATH 30	Calculus I	4
MATH 107A	Fundamental Mathematical Concepts	3
STAT 1	Introduction to Statistics	3

A brochure describing the diagnostic tests and containing sample questions is available in the campus bookstore. The following table gives the course and appropriate diagnostic test.

Those students who want to prepare for the ELM may purchase the Entry Level Mathematics workbook at the Hornet Bookstore (see Placement Tests section of this catalog).

All students planning to take MATH 30, Calculus I, must take the Calculus Readiness test prior to the semester of enrollment in MATH 30.

Prerequisite Requirements

- Prerequisites must be completed with grade "C-" or better.
- Grade "C-" or better required in all courses applied to Mathematics major or to the Mathematics or Statistics minors.
- PHYS 11A and PHYS 11C are recommended for all Mathematics majors.

Program Requirements

Code	Title	Units
Lower Division Core Courses (21 Units)		
MATH 30	Calculus I [1]	4
MATH 31	Calculus II [1]	4
MATH 32	Calculus III	4
MATH 35	Introduction to Linear Algebra	3
MATH 45	Differential Equations for Science and Engineering	3

Select one of the following:		3
CSC 10	Introduction to Programming Logic	
CSC 15	Programming Concepts and Methodology I	
CSC 22	Visual Programming in BASIC	
CSC 25	Introduction to C Programming	
Upper Division Core Courses (15 Units)		
MATH 108	Introduction to Formal Mathematics	3
MATH 110A	Modern Algebra	3
MATH 110B	Modern Algebra	3
MATH 130A	Functions of a Real Variable	3
MATH 130B	Functions of a Real Variable	3
Additional Requirements for Specialized Study (12-18 Units)		
Select an emphasis from the following four options:		12 - 18
Emphasis in Pure Mathematics		
Emphasis in Applied Mathematics		
Emphasis in Statistics		
Teacher Preparation Program		
Total Units		48-54

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Emphasis in Pure Mathematics

Code	Title	Units
MATH 117	Linear Algebra	3
MATH 134	Functions of a Complex Variable and Applications	3
Select two of the following:		6 - 11
MATH 101	Combinatorics	
MATH 102	Number Theory	
MATH 104	Vector Analysis	
MATH 105A	Advanced Mathematics for Science and Engineering I	
MATH 105B	Advanced Mathematics for Science and Engineering II	
MATH 121	College Geometry	
MATH 150	Introduction to Numerical Analysis	
MATH 161	Mathematical Logic	
MATH 162	Set Theory	
MATH 170	Linear Programming	
MATH 190	History Of Mathematics	
STAT 115A	Introduction to Probability Theory [1]	
STAT 115B	Introduction to Mathematical Statistics [1]	
STAT 155	Introduction to Techniques of Operations Research [1]	
Total Units		12-17

[1] Has an extra prerequisite that is not in the lower or upper division core.

Emphasis in Applied Mathematics

Code	Title	Units
MATH 105A	Advanced Mathematics for Science and Engineering I	4
MATH 105B	Advanced Mathematics for Science and Engineering II	4
Select two of the following:		6
MATH 101	Combinatorics	
MATH 102	Number Theory	
MATH 104	Vector Analysis	
MATH 117	Linear Algebra	
MATH 134	Functions of a Complex Variable and Applications	
MATH 150	Introduction to Numerical Analysis	
MATH 170	Linear Programming	
STAT 115A	Introduction to Probability Theory [1]	
STAT 115B	Introduction to Mathematical Statistics [1]	
STAT 155	Introduction to Techniques of Operations Research [1]	
Total Units		14

[1] Has an extra prerequisite that is not in the lower or upper division core.

Emphasis in Statistics

Code	Title	Units
STAT 1	Introduction to Statistics	3 - 4
or STAT 50	Introduction to Probability and Statistics	
STAT 115A	Introduction to Probability Theory	3
STAT 115B	Introduction to Mathematical Statistics	3
Select two of the following:		6
MATH 101	Combinatorics	
MATH 117	Linear Algebra	
MATH 134	Functions of a Complex Variable and Applications	
MATH 150	Introduction to Numerical Analysis	
MATH 170	Linear Programming	
STAT 155	Introduction to Techniques of Operations Research	
Total Units		15-16

Emphasis in Teacher Preparation

Code	Title	Units
STAT 1	Introduction to Statistics	3
MATH 102	Number Theory	3
MATH 121	College Geometry	3
MATH 190	History Of Mathematics	3
MATH 193	Capstone Course for the Teaching Credential Candidate	3
Total Units		15

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3

A2 - Written Communication	3
A3 - Critical Thinking	3
Area B: Physical Universe and Its Life Forms (10 Units)	
B1 - Physical Science	3
B2 - Life Forms	3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)	1
B4 - Math Concepts [2]	0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.	3
Area C: Arts and Humanities (12 Units)	
C1 - Arts	3
C2 - Humanities	3
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (12 Units)	
Area D Course	3
Area D Course	3
Area D Course	3
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	46

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Integrated Mathematics Major/Single Subject Credential Program

Units required for Major and Credential: 90

Program Description

Teaching credential candidates must complete the Professional Education Program in addition to other requirements for a teaching credential. Consult the Department credential advisor for details. You may also obtain information about the Professional Education Program from the Teacher Preparation and Credentials Office, Eureka Hall 216, (916) 278-6403.

Students in the Integrated Mathematics Major/Single Subject Credential Program (also called the Blended Program in Mathematics) begin their pedagogical studies while they are completing the mathematics courses required for the Bachelor's degree in Mathematics. The mathematics requirements include all of the courses required for the subject matter program in mathematics (see above), and MATH 198. Students who are interested in being admitted to the Blended Program in Mathematics must plan ahead, and must see their advisor as soon as possible.

Note: Due to continuing policy changes, it is important to consult a credential advisor for current details.

Admission Requirements

Admission requirements for the Blended Program include junior class standing with a minimum overall GPA of 2.67, a grade of 'C-' or better in MATH 108, passing the Writing Placement for Juniors Exam (WPJ), spending and documenting at least 45 hours observing classes, tutoring, or teaching in a variety of settings in grades 7-12, taking all three sections of the California Basic Education Skills Test (CBEST), and submitting an application packet to the Department of Mathematics and Statistics. A completed application packet includes:

- an application form;
- an essay outlining reasons for entering a career in teaching;
- two letters of recommendation;
- two sets of transcripts from each college or university attended, *other than Sacramento State*; and
- one complete Sacramento State transcript.

The application packet may be submitted during the semester in which the requirements for admission are being completed, so the application may be submitted during the semester in which enrollment in MATH 108 occurs.

Prerequisite/Corequisite Requirements

There are three courses which are prerequisites or corequisites to the Blended Program and students are encouraged to take these courses prior to formal admission:

Code	Title	Units
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
EDUC 100A	Educating Students with Disabilities in Inclusive Settings	2
EDUC 100B	Educating Students with Disabilities in Inclusive Settings Lab	1
HLSC 136		2

Program Requirements

Code	Title	Units
Lower Division Core Courses (21 Units)		
MATH 30	Calculus I [1]	4
MATH 31	Calculus II [1]	4
MATH 32	Calculus III	4
MATH 35	Introduction to Linear Algebra	3
MATH 45	Differential Equations for Science and Engineering	3
Select one of the following:		3
CSC 10	Introduction to Programming Logic	
CSC 15	Programming Concepts and Methodology I	
CSC 22	Visual Programming in BASIC	
CSC 25	Introduction to C Programming	
Upper Division Core Courses (15 Units)		
MATH 108	Introduction to Formal Mathematics	3
MATH 110A	Modern Algebra	3
MATH 110B	Modern Algebra	3
MATH 130A	Functions of a Real Variable	3
MATH 130B	Functions of a Real Variable	3
Additional Requirements for Specialized Study (12-18 Units)		
Select an emphasis from the following four options:		12 - 18
Emphasis in Pure Mathematics		
Emphasis in Applied Mathematics		
Emphasis in Statistics		
Teacher Preparation Program		
Total Units		48-54

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Emphasis in Teacher Preparation Program

Code	Title	Units
STAT 1	Introduction to Statistics	3
MATH 102	Number Theory	3
MATH 121	College Geometry	3
MATH 190	History Of Mathematics	3
MATH 193	Capstone Course for the Teaching Credential Candidate	3
Total Units		15

In addition, students in the Blended Program take all the courses required for the Subject Matter Program in Mathematics (see above), as well as MATH 198 and the following education classes:

Code	Title	Units
EDTE 372		
EDTE 373		
EDTE 373B		
EDTE 384		
EDTE 386		
EDTE 470A		
EDTE 470B		
MATH 316	The Psychology of Mathematics Instruction	2
MATH 371A	Schools and Community A	2
MATH 371B	Schools and Community B	2
Total Units		6

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (10 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5		1
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area Course C		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		46

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

MA in Mathematics

Total units required for MA: 30, including at least 24 units of approved 200-level courses

Program Description

The Department of Mathematics and Statistics offers a Master of Arts degree in Mathematics. The MA program is designed to provide qualified students with an opportunity to increase the breadth and depth of their mathematical knowledge and understanding. Beyond assuring that successful candidates are proficient in the basic areas of mathematics, the program is sufficiently flexible to permit graduates to pursue individual professional and mathematical interests ranging from teaching at the secondary or community college level to a career in the private sector, to preparation for graduate study beyond the master's degree. Graduate courses are usually offered in the late afternoon to accommodate students who work full-time.

Admission Requirements

Admission as a classified graduate student in Mathematics requires:

- an undergraduate major in Mathematics which includes one year each of Modern Algebra and Advanced Calculus or an undergraduate major in a related field together with one year each of Modern Algebra and Advanced Calculus;
- a minimum 2.5 GPA; and
- a minimum 2.5 GPA in the last 60 units attempted and a 3.0 GPA in Mathematics coursework.

Students who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any such deficiencies will be noted on a written response to the admission application. No credit will be given towards the MA for the following:

Code	Title	Units
MATH 110A	Modern Algebra	3
MATH 110B	Modern Algebra	3
MATH 130A	Functions of a Real Variable	3
MATH 130B	Functions of a Real Variable	3

Admission Procedures

Applications are accepted as long as room for new students exists. However, students are strongly urged to apply by the posted university application deadline for the fall or spring terms, in order to allow time for admission before registration. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for admission; and
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State.*

For more admissions information and application deadlines please visit http://www.csus.edu/gradstudies/.

Admission decisions are made approximately six to eight weeks after the application deadline date. Applicants will be notified of an admission decision via e-mail.

Minimum Unit and Grade Requirement for the Degree

Units required for the MA: 30 (including at least 24 units of approved 200-level courses).

Minimum Cumulative GPA: 3.0

Note: A foreign language is not required for the MA degree. However, students who plan further graduate study are encouraged to take coursework in French, German, or Russian since proficiency in two of these languages is usually required in doctoral programs.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 18 units in the graduate program with a minimum 3.0 GPA, including at least 12 units at the 200 level; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a Mathematics advisor. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Courses (27 Units)		
MATH 210A	Algebraic Structures [1]	3

MATH 210B	Algebraic Structures [1]	3
MATH 230A	Real Analysis [1]	3
MATH 230B	Real Analysis [1]	3
Select four from the following:		12
MATH 220A	Topology	
MATH 220B	Topics In Topology	
MATH 234A	Complex Analysis	
MATH 234B	Topics in Complex Analysis	
MATH 241A	Methods of Applied Mathematics	
MATH 241B	Topics in Applied Mathematics	
STAT 215A	Introduction to Mathematical Statistics	
STAT 215B	Topics in Introduction to Mathematical Statistics	
Select one of the following with advisor approval:		3
MATH 299	Special Problems	
Electives in mathematics and related disciplines		
Culminating Requirement (3 Units)		
Written Comprehensive Examination		3
Total Units		30

[1] Courses must be completed with grade "B-" or better.

Minor in Mathematics

Units required for Minor: 20-23

Program Description

In today's highly technological society, the study of Mathematics takes on an increasingly important role. The Sacramento State Mathematics Department designs its courses with the goal of providing students with the mathematical concepts appropriate to the student's field.

All units must be taken in Mathematics or Statistics. A minimum of 8 upper division units is required. At least 6 upper division units must be taken at Sacramento State.

Placement - Mathematics Courses

Students who have not completed four years of high school mathematics consisting of

- Beginning Algebra (one year)
- Geometry (one year)
- Intermediate Algebra-Trigonometry (one year)
- Analytic Geometry-Mathematical Analysis (one year)

may need to complete part of this preparation at the University. The following diagram, which is based upon course prerequisites and major objectives, may be of assistance in selecting the necessary coursework.

Satisfactory completion of the Entry Level Mathematics (ELM) requirement is a prerequisite to enroll ment in any mathematics or statistics course in Area B-4 (Quantitative Reasoning) of General Education. The mathematics and statistics courses listed in Area B-4 are:

Code	Title	Units
MATH 1	Mathematical Reasoning	3
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics	3
MATH 24	Modern Business Mathematics	3
MATH 26A	Calculus I for the Social and Life Sciences	3
MATH 26B	Calculus II for the Social and Life Sciences	3
MATH 29	Pre-Calculus Mathematics	4
MATH 30	Calculus I	4
MATH 31	Calculus II	4
MATH 35	Introduction to Linear Algebra	3
STAT 1	Introduction to Statistics	3
STAT 50	Introduction to Probability and Statistics	4

Students Planning to take any of the following courses must pass a diagnostic test.

Code	Title	Units
MATH 9		
MATH 11		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics	3
MATH 24	Modern Business Mathematics	3
MATH 26A	Calculus I for the Social and Life Sciences	3
MATH 29	Pre-Calculus Mathematics	4
MATH 29A	Pre-Calculus Mathematics A	2
MATH 30	Calculus I	4
MATH 107A	Fundamental Mathematical Concepts	3
STAT 1	Introduction to Statistics	3

A brochure describing the diagnostic tests and containing sample questions is available in the campus bookstore. The following table gives the course and appropriate diagnostic test.

Those students who want to prepare for the ELM may purchase the Entry Level Mathematics workbook at the Hornet Bookstore (see Placement Tests section of this catalog).

All students planning to take MATH 30, Calculus I, must take the Calculus Readiness test prior to the semester of enrollment in MATH 30.

Prerequisite Requirements

- Prerequisites must be completed with grade "C-" or better.
- Grade "C-" or better required in all courses applied to Mathematics major or to the Mathematics or Statistics minors.
- PHYS 11A and PHYS 11C are recommended for all Mathematics majors.

Program Requirements

Select **one** of the **two** following options.

Code	Title	Units
Option 1 (20-21 Units)		
MATH 30	Calculus I	4
MATH 31	Calculus II	4
Select one of the following:		3 - 4
MATH 32	Calculus III	
MATH 35	Introduction to Linear Algebra	
STAT 50	Introduction to Probability and Statistics	

Select 9 units of upper division Mathematics and/or Statistics courses selected with approval of a Mathematics advisor		9
Total Units		20-21

Code	Title	Units
Option 2 (23 Units)		
MATH 30	Calculus I	4
MATH 31	Calculus II	4
MATH 32	Calculus III	4
MATH 45	Differential Equations for Science and Engineering	3
MATH 105A	Advanced Mathematics for Science and Engineering I	4
MATH 105B	Advanced Mathematics for Science and Engineering II	4
Total Units		23

Minor in Statistics

Units required for Minor: 21

Program Description

In today's highly technological society, the study of Mathematics takes on an increasingly important role. The Sacramento State Mathematics Department designs its courses with the goal of providing students with the mathematical concepts appropriate to the student's field.

All units must be taken in Mathematics or Statistics. A minimum of 6 upper division units is required. At least 6 upper division units must be taken at Sacramento State.

Placement - Mathematics Courses

Students who have not completed four years of high school mathematics consisting of

- Beginning Algebra (one year)
- Geometry (one year)
- Intermediate Algebra-Trigonometry (one year)
- Analytic Geometry-Mathematical Analysis (one year)

may need to complete part of this preparation at the University. The following diagram, which is based upon course prerequisites and major objectives, may be of assistance in selecting the necessary coursework.

Satisfactory completion of the Entry Level Mathematics (ELM) requirement is a prerequisite to enroll ment in any mathematics or statistics course in Area B-4 (Quantitative Reasoning) of General Education. The mathematics and statistics courses listed in Area B-4 are:

Code	Title	Units
MATH 1	Mathematical Reasoning	3
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics	3
MATH 24	Modern Business Mathematics	3
MATH 26A	Calculus I for the Social and Life Sciences	3
MATH 26B	Calculus II for the Social and Life Sciences	3
MATH 29	Pre-Calculus Mathematics	4
MATH 30	Calculus I	4
MATH 31	Calculus II	4
MATH 35	Introduction to Linear Algebra	3
STAT 1	Introduction to Statistics	3
STAT 50	Introduction to Probability and Statistics	4

Students Planning to take any of the following courses must pass a diagnostic test.

Code	Title	Units
MATH 9		
MATH 11		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics	3
MATH 24	Modern Business Mathematics	3
MATH 26A	Calculus I for the Social and Life Sciences	3
MATH 29	Pre-Calculus Mathematics	4
MATH 29A	Pre-Calculus Mathematics A	2
MATH 30	Calculus I	4
MATH 107A	Fundamental Mathematical Concepts	3
STAT 1	Introduction to Statistics	3

A brochure describing the diagnostic tests and containing sample questions is available in the campus bookstore. The following table gives the course and appropriate diagnostic test.

Those students who want to prepare for the ELM may purchase the Entry Level Mathematics workbook at the Hornet Bookstore (see Placement Tests section of this catalog).

All students planning to take MATH 30, Calculus I, must take the Calculus Readiness test prior to the semester of enrollment in MATH 30.

Prerequisite Requirements

- Prerequisites must be completed with grade "C-" or better.
- Grade "C-" or better required in all courses applied to Mathematics major or to the Mathematics or Statistics minors.
- PHYS 11A and PHYS 11C are recommended for all Mathematics majors.

Program Requirements

Code	Title	Units
MATH 30	Calculus I	4
MATH 31	Calculus II	4
MATH 32	Calculus III	4
or STAT 50	Introduction to Probability and Statistics	
STAT 103	Intermediate Statistics	3
STAT 115A	Introduction to Probability Theory	3
STAT 115B	Introduction to Mathematical Statistics	3
Total Units		21

Physics and Astronomy

College of Natural Sciences and Mathematics

Program Description

Physics is the most fundamental science and underlies our understanding of nearly all areas of science and technology. In a broad

sense, physics is concerned with the study of energy, space, and matter, and with the interactions between matter and the laws that govern these interactions. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, and condensed matter physics.

The Department of Physics and Astronomy at Sacramento State offers four degree programs: the BS in Physics, a BS in Physics with a concentration in Applied Physics, the BA in Physics, and the BA in Physics, Physics Teacher Concentration. The Department also offers Minor programs in Physics and Astronomy and Certificates in Scientific Instrument Development and Scientific Computing and Simulation. The BS degrees are recommended for students seeking a career in the technology sector or planning to pursue a graduate degree. The BA degree is recommended for students who are interested in teaching Physics in high school or who want a liberal arts education with an emphasis in Physics. Physics majors are encouraged to take additional mathematics and to develop skills in the use of computers.

Approximately 40 percent of the graduating physics majors from Sacramento State continue on to graduate school earning advanced degrees in Physics, Mathematics, Engineering, Environmental Science, Medicine, or Business. Another 50 percent find job opportunities in industrial and government laboratories or agencies. The remaining 10 percent obtain their teaching credential.

Degree Programs

Astronomy (p. 871)

Physics (p. 873)

Special Features

- In addition to providing a broad academic background and facility in analytic thinking, the study of physics fosters and emphasizes independent study experiences. Most physics students at Sacramento State typically spend a year working on a Senior Project, often in conjunction with a faculty member. These independent projects not only provide a vehicle for applying material learned in class and give students experience in electronics, measurement systems, computers, and machine shop work, but also teach students to work and think on their own. Faculty in the Department have been active in research in atomic physics, astrophysics, biophysics, condensed matter physics, high energy physics, instrumentation, liquid crystals, low temperature physics, optics, and physics education research.
- An advising system has been established by the Department of Physics and Astronomy to help students plan their schedules each semester, to discuss independent project possibilities, and to provide career and current job information. Because of the large number of sequential courses in the degree programs, the Department requires that each student contact his/her advisor before registering for classes each semester. Any student without an advisor should contact Professor William DeGraffenreid in Sequoia Hall 230, or call (916) 278-6518.

Career Possibilities

A degree in physics will prepare you for a wide range of careers. The advanced problem solving, technical, and communication skills one develops alongside the physics knowledge in our degrees are highly valued by many industries. Recent graduates from our programs have an extremely diverse range of careers including: faculty members at colleges and universities, employees at National and State Laboratories and Agencies, teachers at middle and high school, engineers, scientific technicians, analysts, technical writers, computer programmers, and science policy.

Contact Information

William DeGraffenreid, Department Chair
Heidi Yamazaki, Administrative Support Coordinator
Sequoia Hall 230
(916) 278-6518
Department of Physics and Astronomy Website (http://www.csus.edu/physics/)

Faculty

BLOCK, MATTHEW

BUERKI, JEROME

DEGRAFFENREID, WILLIAM C.

JENSEN, MIKKEL

MARGONINER, VERA

MOSS, JOSHUA

OSBORNE, JACK H.

RAY, MICHAEL

SERGAN, VASSILI V.

SERGAN, TATIANA

TASHIRO, LYNN

TAYLOR, CHRISTOPHER L.

Astronomy

College of Natural Sciences and Mathematics

Program Description

Astronomy has played an important role in the development of modern science. Recent advances in technology and space exploration have made possible many remarkable new discoveries in astronomy. For both these reasons, the study of astronomy is an excellent way for the liberal arts student to gain an appreciation of scientific knowledge and methods, and is especially recommended for students who are preparing for a teaching career. The minor in astronomy, in combination with a major in a physical science, can help prepare students for graduate study in astronomy or astrophysics, or for a career in this field. More information about these possibilities is available from advisors in the Department of Physics and Astronomy.

Degree Program

Minor in Astronomy (p. 872)

Special Features

- Observation sessions are held in our facility on the roof of Amador Hall with a 14-inch Schmidt-Cassegrain instrument.

- Portable 10-inch Schmidt-Cassegrain telescopes, a solar telescope and a radio telescope are also available for use in courses and student projects
- A modern computing facility is used for digital image analysis and data reduction, providing access to all major astronomical analysis software.
- Occasional off-campus sessions make use of observatory and planetarium facilities at neighboring institutions.

Contact Information

William DeGraffenreid, Department Chair
Heidi Yamazaki, Administrative Support Coordinator
Sequoia Hall 230
(916) 278-6518
Department of Physics and Astronomy Website (http://www.csus.edu/physics/)

Faculty

MARGONINER, VERA

TAYLOR, CHRISTOPHER

ASTR 4A. Introduction to the Solar System. 3 Units
Prerequisite(s): One year of high school geometry or instructor permission.
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Spring only

Description and explanations of astronomical phenomena and measurements related to the Solar System and exoplanets. Structure and evolution of planetary systems. Formation of solar systems and planets. Occasional observation periods.

ASTR 4B. Introduction to Stars, Galaxies, and Cosmology. 3 Units
Prerequisite(s): One year high school geometry or instructor permission.
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Description and explanations of astronomical phenomena related to stars, galaxies, and cosmology. Structure and evolution of stellar and galactic systems. Occasional observation periods.

ASTR 4C. Introduction to Astrobiology. 3 Units
Prerequisite(s): One year high school geometry or instructor permission.
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall only

Nature and history of scientific inquiry into life outside the Earth. Definitions of life. Habitability of planets and moons in our Solar System and of extrasolar planets. Likelihood of intelligent life outside Earth and rationale for the Search for Extra-Terrestrial Intelligence.

ASTR 6. Astronomical Observation Laboratory. 1 Unit
Prerequisite(s): ASTR 4A, ASTR 4B, or ASTR 4C with C- or better; may be taken concurrently.
General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

Study and use of various telescopes; field observation of planets, stars, meteors, asteroids, the moon and sun; laboratory activities relevant to astronomy. Lab three hours.

ASTR 131. The Solar System and Space Exploration. 3 Units
Prerequisite(s): ASTR 4A or ASTR 4B or 4C or PHYS 11A or CHEM 1A and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W ; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Upper Division Further Studies in Area B5
Term Typically Offered: Fall only

Planets and satellites, including their composition, structure, and atmospheres, with emphasis on modern techniques and observations. Solar surface phenomena and their influence on planets through the solar wind. Comets, meteorites, and their implications for the origin and evolution of planets. Physical effects governing feasible forms of space exploration and colonization.
Note: This course is approved as a Writing Intensive course.

ASTR 132. Stars, Galaxies and Cosmology. 3 Units
Prerequisite(s): ASTR 4A or ASTR 4B or 4C or PHYS 11A or CHEM 1A and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Upper Division Further Studies in Area B5
Term Typically Offered: Spring only

Types and evolution of stars; structure and evolution of galaxies; overall structure of the universe; current developments in astronomy.
Note: This course is approved as a Writing Intensive course.

ASTR 150. Dark Matter and Dark Energy. 3 Units
Prerequisite(s): PHYS 106
Corequisite(s): PHYS 110
Term Typically Offered: Spring only — odd years

Introduction to historical, observational and theoretical principles of dark matter and dark energy in the Universe. Topics will include dark matter in galaxies (rotation curves, stellar motions), dark matter in clusters (virial theorem, x-ray observations), MACHOs and WIMPs as dark matter candidates, as well as the discovery of dark energy through supernovae observations, and additional probes of dark energy. Dark matter and dark energy will be discussed in the cosmological context of the Big Bang theory.

ASTR 199. Special Problems. 1 - 2 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students competent to assume individual work on approval of the instructor. Up to 2 units may be taken for a grade.

Credit/No Credit

Minor in Astronomy

Department of Physics and Astronomy

Units required for Minor: 18

Program Description

Astronomy has played an important role in the development of modern science. Recent advances in technology and space exploration have

made possible many remarkable new discoveries in astronomy. For both these reasons, the study of astronomy is an excellent way for the liberal arts student to gain an appreciation of scientific knowledge and methods, and is especially recommended for students who are preparing for a teaching career.

The minor in astronomy, in combination with a major in a physical science, can help prepare students for graduate study in astronomy or astrophysics, or for a career in this field. More information about these possibilities is available from advisors in the Department of Physics and Astronomy.

Program Requirements

Code	Title	Units
Required Courses (12 Units)		
Select one of the following:		3
ASTR 4A	Introduction to the Solar System	
ASTR 4B	Introduction to Stars, Galaxies, and Cosmology	
ASTR 4C	Introduction to Astrobiology	
ASTR 6	Astronomical Observation Laboratory	1
ASTR 131	The Solar System and Space Exploration	3
ASTR 132	Stars, Galaxies and Cosmology	3
ASTR 199	Special Problems [1]	2
Elective Courses (6 Units)		
Select two of the following:		6
CHEM 142	Introduction to Physical Chemistry	
CSC 25	Introduction to C Programming	
GEOG 107	Remote Sensing	
GEOG 113	Climate	
GEOG 116	Global Climate Change	
GEOL 114	Volcanology	
PHIL 125	Philosophy Of Science	
PHSC/HIST 107	History of the Physical Sciences	
PHYS 136	Electrodynamics of Waves, Radiation,and Materials	
PHYS 145	Optics	
PHYS 162	Scientific Computing: Basic Methods	
STAT 50	Introduction to Probability and Statistics	
STAT 115A	Introduction to Probability Theory	
Total Units		18

[1] Substitutions of up to 4 units of Physics and Physical Science courses are possible; consult a Department of Physics and Astronomy advisor.

Physics

Program Description

Physics is the most fundamental science and underlies our understanding of nearly all areas of science and technology. In a broad sense, physics is concerned with the study of energy, space, and matter, and with the interactions between matter and the laws that govern these interactions. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, and condensed matter physics.

Approximately 40 percent of the graduating physics majors from Sacramento State continue on to graduate school earning advanced degrees in Physics, Mathematics, Engineering, Environmental Science, Medicine, or Business. Another 50 percent find job opportunities in industrial and government laboratories or agencies. The remaining 10 percent obtain their teaching credential.

Degree Programs

BA in Physics (p. 878)

BA in Physics (Teacher Preparation) (p. 879)

BS in Physics (p. 881)

BS in Physics (Applied Physics) (p. 883)

Minor in Physics (p. 885)

Certificate in Scientific Computing and Simulation (p. 884)

Certificate in Scientific Instrument Development (p. 885)

Special Features

- In addition to providing a broad academic background and facility in analytic thinking, the study of physics fosters and emphasizes independent study experiences. Most physics students at Sacramento State typically spend a year working on a Senior Project, often in conjunction with a faculty member. These independent projects not only provide a vehicle for applying material learned in class and give students experience in electronics, measurement systems, computers, and machine shop work, but also teach students to work and think on their own. Faculty in the Department have been active in research in atomic physics, astrophysics, biophysics, condensed matter physics, high energy physics, instrumentation, liquid crystals, low temperature physics, optics, and physics education research.
- An advising system has been established by the Department of Physics and Astronomy to help students plan their schedules each semester, to discuss independent project possibilities, and to provide career and current job information. Because of the large number of sequential courses in the degree programs, the Department requires that each student contact his/her advisor before registering for classes each semester. Any student without an advisor should contact Professor William DeGraffenreid in Sequoia Hall 230, or call (916) 278-6518.

Career Possibilities

A degree in physics will prepare you for a wide range of careers. The advanced problem solving, technical, and communication skills one develops alongside the physics knowledge in our degrees are highly valued by many industries. Recent graduates from our programs have an extremely diverse range of careers including: faculty members at colleges and universities, employees at National and State Laboratories and Agencies, teachers at middle and high school, engineers, scientific technicians, analysts, technical writers, computer programmers, and science policy.

Contact Information

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Heidi Yamazaki, Administrative Support Coordinator
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Department of Physics and Astronomy (http://www.csus.edu/physics/)

Faculty

BARNIOL DURAN, RODOLFO

BLOCK, MATTHEW

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MARGONINER, VERA

MORRIS, ELIZA

MOSS, JOSHUA

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RAY, MICHAEL

SERGAN, TATIANA

SERGAN, VASSILI V.

TASHIRO, LYNN

TAYLOR, CHRISTOPHER L.

PHYS 1. Physical Reasoning and Calculation. 2 Units
Term Typically Offered: Fall, Spring

Introduction to the analytical skills needed for the study of Physics. The focus is to prepare students to take PHYS 11A, however, PHYS 1 is also suitable as preparation for PHYS 5A. Emphasis is on reasoning and problem-solving, including conceptualization, visualization, and interpretation of written descriptions of physical situations, and on the connection of physical laws to the mathematical techniques used in their solution.

PHYS 2. Topics in Elementary Physics. 4 Units
Prerequisite(s): A recent one year course in high school algebra and one year of plane geometry or a college course in algebra (MATH 9).
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

One semester introductory physics course including a laboratory. Covers the fundamental concepts of physics with an emphasis on everyday life situations and applications. The range of material includes mechanics, waves, electricity and optics. One hour lecture, two hour discussion, and a three hour laboratory session.

PHYS 5A. General Physics: Mechanics, Heat, Sound. 4 Units
Prerequisite(s): Recently completed three years of high school algebra and geometry; and a college course in algebra and trigonometry (MATH 9 recommended) for those having an inadequate mathematics background.
General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

PHYS 5A-B sequence is a two-semester course in introductory physics in which fundamental concepts are emphasized including some physiological applications. Lecture two hours; discussion one hour; laboratory three hours.

PHYS 5B. General Physics: Light, Electricity and Magnetism, Modern Physics. 4 Units
Prerequisite(s): PHYS 5A or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Lecture two hours; discussion one hour; laboratory three hours.

PHYS 10. Physics In Our World. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Introductory course designed for non-science students completing general education requirements. Students will be introduced to basic concepts in Physics through the study of astronomy, atomic nature of matter, electromagnetic waves, energy, sound and earthquake waves, current electricity, magnetism, and nuclear processes. Development of reasoning and quantitative skills and applying them to scientific and technological topics of current importance will be emphasized.

PHYS 10L. Physics in Our World Laboratory. 1 Unit
Prerequisite(s): PHYS 10; may be taken concurrently.
Term Typically Offered: Fall, Spring

Laboratory course complements PHYS 10 and satisfies the general education science lab requirement. Emphasis is placed on the nature of scientific observation and measurement and their relationship to general physical concepts. Students will be given a concrete, hands-on sense of observing and interpreting data from a variety of experimental environments.

PHYS 11A. General Physics: Mechanics. 4 Units
Prerequisite(s): MATH 30, MATH 31; or equivalent certificated high school courses. MATH 31 may be taken concurrently.
General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

PHYS 11 A, B, and C is a three semester course in introductory physics requiring elementary calculus. This course satisfies the lower division physics requirement for a major in physics, chemistry, geology, or engineering. PHYS 11A covers the basics of classical mechanics, including kinematics, Newton's laws, conservation laws and rotational dynamics. Lecture two hours; discussion one hour; laboratory three hours.

PHYS 11B. General Physics: Heat, Light, Sound, Modern Physics. 4 Units
Prerequisite(s): PHYS 11C.
Term Typically Offered: Fall, Spring

PHYS 11 A, B, and C is a three semester course in introductory physics requiring elementary calculus. This course satisfies the lower division physics requirement for a major in physics, chemistry, geology, or engineering. PHYS 11B covers the basics of thermodynamics, light propagation, sound, and an introduction to modern physics. Lecture two hours; discussion one hour; laboratory three hours.

PHYS 11C. General Physics: Electricity and Magnetism. 4 Units
Prerequisite(s): MATH 31, PHYS 11A.
Term Typically Offered: Fall, Spring, Summer

PHYS 11 A, B, and C is a three semester course in introductory physics requiring elementary calculus. This course satisfies the lower division physics requirement for a major in physics, chemistry, geology, or engineering. PHYS 11C covers the basics of electricity and magnetism. Lecture two hours; discussion one hour; laboratory three hours.

PHYS 30. Science and Pseudoscience. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Examination of the methodology of science. Comparison of legitimate investigations with others that do not meet high scientific standards, including both science poorly done and nonsense posing as science. Examples will be drawn primarily from the physical sciences. Analyzes will require study of basic skills of reasoning, types of logical argument, structure and validity of arguments, common reasoning fallacies, critical evaluation of evidence, and understanding of the scientific thinking process.

PHYS 99. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to assume individual work on the approval of the instructor. For students with lower division status. Up to 4 units may be taken for grade.

Credit/No Credit

PHYS 105. Mathematical Methods in Physics. 3 Units
Prerequisite(s): MATH 32; PHYS 11A, PHYS 11B, PHYS 11C or PHYS 5A, PHYS 5B.
Term Typically Offered: Spring only

Linear algebra and linear vector spaces, linear transformations and eigenvectors, differential and integral vector calculus, with applications to physical problems.

PHYS 106. Introduction to Modern Physics. 3 Units
Prerequisite(s): MATH 31; PHYS 11A, PHYS 11B, PHYS 11C or PHYS 5A, PHYS 5B.
Term Typically Offered: Fall, Spring

Basic concepts of special relativity and quantum theory of matter. Phenomenological study of atomic and molecular energy states and spectra. Elements of solid-state and nuclear physics.

PHYS 107. Conceptual Physics and Scientific Inquiry. 4 Units
Prerequisite(s): BIO 7, CHEM 106, GEOL 8, MATH 17.
Corequisite(s): CHEM 106
Term Typically Offered: Fall, Spring

Concepts include matter, waves and energy, force and motion, electricity and magnetism, and scientific inquiry. Emphasizes hands on cooperative learning engaging students in scientific inquiry by posing testable scientific questions, conducting experiments, and analyzing and presenting findings to their peers. Appropriate for Liberal Studies and Blended Multiple Subject Credential students. Weekly activity and discussion sessions.

PHYS 110. Classical Mechanics. 3 Units
Prerequisite(s): MATH 45, PHYS 11C, PHYS 105.
Term Typically Offered: Spring only

Fundamental principles of statics and dynamics, including Newton's equations and conservation laws, damped and forced oscillations, central force motion, accelerated coordinate systems, coupled oscillations, normal modes, Lagrangian and Hamiltonian methods, introduction to nonlinear systems and chaos theory.

PHYS 115. Electronics and Instrumentation. 4 Units
Prerequisite(s): PHYS 11C or PHYS 5B with instructor permission.
Term Typically Offered: Fall only

Linear and non-linear circuits, operational amplifiers, transducers, basics of digital circuitry, and an introduction to computerized data acquisition. Lecture two hours; laboratory six hours.

PHYS 116. Advanced Electronics and Instrumentation. 3 Units
Prerequisite(s): PHYS 115.
Term Typically Offered: Spring only – even years

Noise reduction techniques, signal recovery, frequency analysis, computerized instrument control, and instrument development. Lecture one hour; laboratory six hours.

PHYS 124. Thermodynamics and Statistical Mechanics. 3 Units
Prerequisite(s): MATH 45, PHYS 11A, PHYS 11B, PHYS 11C.
Term Typically Offered: Spring only

Basic concepts and laws of thermodynamics and thermal properties of matter; kinetic theory of gases; use of distribution functions and ensembles in statistical mechanics; connection of probability and entropy; quantum statistics; applications to various systems.

PHYS 130. Acoustics. 3 Units
Prerequisite(s): MATH 45, PHYS 11A, PHYS 11B, PHYS 11C.
Term Typically Offered: Fall, Spring

Theoretical and experimental study of sound sources, sound waves and sound measurement. Basic properties of waves in continuous media; spectral analysis of vibrations; use of acoustic impedance and circuit analogies; applications to environmental noise analysis, room acoustics, and loudspeaker and microphone design and use; experience with acoustic instrumentation. Lecture two hours; laboratory three hours.

PHYS 135. Electricity And Magnetism. 3 Units
Prerequisite(s): MATH 45, PHYS 11C, PHYS 105.
Term Typically Offered: Fall, Spring

Development of electromagnetic theory from basic experimental laws; electrostatics, electric currents, magnetostatics, electric and magnetic properties of matter, induction, Maxwell's equations, conservation laws, introduction to electromagnetic waves.

PHYS 136. Electrodynamics of Waves, Radiation,and Materials. 3 Units
Prerequisite(s): PHYS 135.
Term Typically Offered: Fall only

Electromagnetic waves, wave propagation in material media, reflection and refraction, polarization, cavities and waveguides, optical fibers, simple radiating systems, radiation from an accelerated charge and special relativity. Introduction to plasma physics and electromagnetic properties of superconductors.

PHYS 142. Applied Solid State Physics. 3 Units
Prerequisite(s): MATH 45, PHYS 106.
Term Typically Offered: Fall, Spring

Elementary treatment of crystal structure and lattice and electron dynamics. Physics of semiconductor junctions, diodes, transistors and MOSFETS, solar cells, lasers, electro-optic and acousto-optic devices. Introduction to basic physical properties such as electrical conduction of selected amorphous solids and their applications. Laboratory experience.

PHYS 145. Optics. 3 Units
Prerequisite(s): MATH 45, PHYS 11A, PHYS 11B, PHYS 11C.
Term Typically Offered: Spring only – even years

Theoretical and experimental treatment of wave optics; interference, diffraction, absorption, scattering, dispersion, polarization. Selected topics from contemporary optics: Fourier optics, coherence theory, lasers, holography. Lecture two hours; laboratory three hours.

PHYS 150. Quantum Mechanics. 3 Units
Prerequisite(s): MATH 45, PHYS 106, PHYS 110.
Term Typically Offered: Fall, Spring

Foundations of wave mechanics, including wave packets, superposition, and the uncertainty principle. The Schroedinger equation and its relation to operators and eigenstates. Symmetric systems and conserved quantities. Introduction to matrix mechanics, spin, scattering, and perturbation theory.

PHYS 151. Advanced Modern Physics. 3 Units
Prerequisite(s): PHYS 150.
Term Typically Offered: Fall, Spring

Structure of matter including basic elements of atomics, molecular, solid state, nuclear and particle physics. Topics will also include photon and electron gases, lasers, superconductivity, Bose-Einstein condensation and superfluidity.

PHYS 156. Classical and Statistical Mechanics. 3 Units
Prerequisite(s): PHYS 110, PHYS 124.
Term Typically Offered: Fall only

Review of classical mechanics, Lagrangian and Hamiltonian formulations, rigid body motion, small vibrations and normal modes, nonlinear dynamics and chaos. Review of the laws of thermodynamics, principles of classical statistical mechanics, ensemble formulations and applications, principles of quantum statistical mechanics, ideal quantum gases, applications to Fermi-Dirac and Bose-Einstein systems.

PHYS 162. Scientific Computing: Basic Methods. 3 Units
Prerequisite(s): MATH 26A or MATH 30 and PHYS 5A, or MATH 30 and PHYS 11A, or MATH 105A concurrently.
Term Typically Offered: Fall, Spring

Basic methods and skills of applying computers to the solution of scientific problems. Numerical calculation methods, numbers and data, algebraic equations, rate processes, iterative techniques, approximation methods, statistical analysis and data fitting, relaxation methods, and use of software and other programming resources on the web. Practical experience emphasized throughout.

PHYS 163. Scientific Computing: Modeling, Simulation, and Visualization. 3 Units
Prerequisite(s): PHYS 162.
Term Typically Offered: Spring only

Application of computer modeling, simulation, and visualization to the solution of scientific problems. Projects drawn from various scientific disciplines will be used to develop the necessary skills, including a capstone project. Examples include projectile motion with air drag, time development of a biological population, chemical reactions with several reactants, and random walk and Monte Carlo methods. Practical experience emphasized throughout.

PHYS 172. Biological Physics. 3 Units
Prerequisite(s): MATH 26A or MATH 30. PHYS 5A, PHYS 5B, PHYS 11A, PHYS 11B, or PHYS 11C. BIO 2 or BIO 10, or instructor permission.
Term Typically Offered: Fall only

Investigation of subcellular and cellular biological systems using the fundamentals of physics. Topics will include a quantitative treatment of: the role of forces and energy in biology; thermodynamics of living systems; biopolymer, cytoskeletal and cellular mechanics; the physics of molecular motors and intracellular transport; applications of physical tools to study biological systems. Focus is on the interplay between physics and biology, and on how physical properties determine the biological function and behavior of living systems.
Note: PHYS 11B or PHYS 5B may be taken concurrently with instructors consent.

PHYS 175. Advanced Physics Laboratory. 2 Units
Prerequisite(s): 12 units of upper division physics, including PHYS 106 and either PHYS 115 or PHYS 145 and a satisfaction of the Advanced Writing requirement.
Term Typically Offered: Fall, Spring

Advanced experiments chosen from several of the major areas of physics, performed usually on an individual basis. Laboratory six hours.

PHYS 181. Modern Physics for Everyone. 3 Units
Prerequisite(s): Completion of GE Area B1 and B4.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
A conceptual course in the topics of modern physics including Quantum Mechanics, Special Relativity, and other contemporary topics for a general audience. This course meets General Education Area B5 (Further Studies in Physical Science, Life Forms, and Quantitative Reasoning) and satisfies the upper-division Area B requirement.

PHYS 182. Physics of Sports. 3 Units
Prerequisite(s): Completion of GE Area B1 and B4.
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

A conceptual course in the application of the laws of physics in the context of sport. Focusing mainly on classical physics, we will cover topics such as force, energy, momentum, collisions, pressure, and fluids to explain what we see on the court, field, pool, and road. This course meets General Education Area B5 (Further Studies in Physical Science, Life Forms, and Quantitative Reasoning) and satisfies the upper-division Area 8 requirement.

PHYS 186. Musical Acoustics: Science and Sound. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Physical principles of vibration and wave motion, with illustrations involving musical instruments and concert hall acoustics; principles of electronic synthesis, recording, and reproduction of sound; operation of the human ear and brain in receiving and analyzing sound; relation of the harmonic series to sound quality, harmony and scales; proper roles for science in explaining music as an artistic activity.
Note: No technical background required; course cannot be used to meet Physics BS program requirements. It is recommended that student have already completed their B1 and B4 requirement prior to enrollment. Some experience with music is also helpful.

PHYS 187. Seeing the Light. 3 Units
Prerequisite(s): Completion of GE Area B1 and B4.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall only

An extensive study of light, mostly in the context of applications. Topics include basics of light and natural phenomena, optics, color, light and energy (solar power), and holography; as well as more advanced topics such as wave/particle model of light, diffraction and polarization. The course will also cover optical instrumentation such as cameras, microscopes, telescopes, displays, and photoreceptors.

PHYS 190. Physics Seminar. 1 - 2 Units
Term Typically Offered: Fall, Spring

Special lecture series on announced topics by local and visiting speakers, emphasizing current research developments, with related reading assignments.
Note: May be taken for credit in sequential semesters for a maximum of two units total.

Credit/No Credit

PHYS 191. Senior Project. 1 - 2 Units
Prerequisite(s): Department chair permission.
Term Typically Offered: Fall, Spring

Research Project under faculty supervision. Project may consist of laboratory or theoretical research project, instrumentation/demonstration development, or literature research project. Projects require written and oral reports.
Note: May be taken for credit in sequential semesters for a maximum of four units total. Grade assigned upon completion of the project.

PHYS 194. Physics Related Work Experience. 6 - 12 Units
Prerequisite(s): Upper-division status and Department Chair permission.
Term Typically Offered: Fall, Spring

Supervised employment in a physics or astronomy related company or agency. Placement is arranged through the department and the Cooperative Education Program office. Requires completion of a three-to-six month work assignment and a written report.
Note: PHYS 194 may not be used to meet major requirements in Physics; May be taken for credit in sequential semesters

Credit/No Credit

PHYS 195. Teaching Internship. 1 - 2 Units
Prerequisite(s): Completion of all math and physics lower division courses for the B.A. in Physics. Approval from the Teacher Preparation Concentration Coordinator.
Term Typically Offered: Fall, Spring

Supervised teaching internship for high school physics class, or for one of the following courses: PHYS 2, 5A-B, 10, 11A-C, 107, or ASTR4. The students will meet weekly with the faculty teaching this class, and with their supervisor or mentor to help prepare and teach the class.
Note: May be taken for credit in sequential semesters for a maximum of six units total.

PHYS 197. Laboratory Teaching Assistant. 1 - 2 Units
Prerequisite(s): Completion of all physics and math lower division courses required for the B.A. in Physics. Completion of the same course in which the student will take this class with a grade higher than B and/or consent from the Teacher Preparation Concentration program coordinator.
Term Typically Offered: Fall only

Student will be a supervised laboratory teaching assistant for one of the following courses: PHYS 2, 5A-B, 10, 11A-C, 107, or ASTR 6. The student will meet weekly with the faculty teaching this class, and with their supervisor or mentor to help prepare and teach the laboratory.
Note: May be taken for credit in sequential semesters for a maximum of six units total.

PHYS 198. Co-Curricular Activities. 1 - 3 Units
Term Typically Offered: Spring only

Students may provide special tutoring to students taking physics courses, participate in community oriented projects, assist in activity sessions for teacher training courses, or engage in activities related to the subject matter and concerns of the Physics and Astronomy Department. Up to 4 units may be taken.
Credit/No Credit

PHYS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to assume individual work on the approval of the instructor. Up to 4 units may be taken for grade.
Credit/No Credit

PHSC 75. Introduction to Machine Shop Practices. 2 Units
Term Typically Offered: Fall, Spring

Safe machine operation techniques on common fabrication equipment. Study of materials and methods used to build testing and measuring equipment. Reading and calibrating measuring devices, gauging and optical gauging. Study of measuring conventions and understanding of precision. Interpretation of drawings, tolerances and tactics for maintaining tolerances. Jigs and mounts for dynamic data collection equipment. Prototype manufacturing. Students completing this course qualify to perform work in the shop with minimum supervision. Lecture one hour; Laboratory three hours.

PHSC 107. History of the Physical Sciences. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Study of the development of the major physical laws presently used in describing our physical world. Some considerations of the influences of these developments on other areas of knowledge and on society in general.
Cross Listed: HIST 107; only one may be counted for credit.

PHSC 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to assume individual work on the approval of the instructor. Up to 4 units may be taken for grade.

Credit/No Credit

BA in Physics

Units required for Major: 65-67
Total unites required for BA: 120

Program Description

The BA degree is recommended for students who are interested in teaching Physics in high school or who want a liberal arts education with an emphasis in Physics. Physics majors are encouraged to take additional mathematics and to develop skills in the use of computers.

Program Requirements

Code	Title	Units
Required Lower Division Courses (37 Units)		
CHEM 1A	General Chemistry I	5
CHEM 1B	General Chemistry II	5
MATH 30	Calculus I [1]	4
MATH 31	Calculus II [1]	4
MATH 32	Calculus III	4
MATH 45	Differential Equations for Science and Engineering	3
PHYS 11A	General Physics: Mechanics [1]	4
PHYS 11B	General Physics: Heat, Light, Sound, Modern Physics	4
PHYS 11C	General Physics: Electricity and Magnetism	4
Required Upper Division Courses (20-22 Units)		
PHYS 105	Mathematical Methods in Physics	3 - 4
or MATH 105A	Advanced Mathematics for Science and Engineering I	
PHYS 106	Introduction to Modern Physics	3
PHYS 110	Classical Mechanics	3
PHYS 115	Electronics and Instrumentation	3 - 4
or PHYS 145	Optics	
PHYS 124	Thermodynamics and Statistical Mechanics	3
PHYS 135	Electricity And Magnetism	3
PHYS 175	Advanced Physics Laboratory	2
Elective Upper Division Requirements (8 Units)		
Select 8 units of Physics electives in consultation with a Physics advisor [2]		8
Physics Colloquium Attendance		
Fulfill a minimum attendance requirement [3]		
Total Units		65-67

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] See list below for a list of Department approved electives.

[3] Majors must fulfill a minimum attendance requirement at Department Colloquia. Students should consult with their advisor (and/or Department Chair) during their mandatory advising appointments to find out the number of colloquia that are required to satisfy this requirement.

Elective List

Code	Title	Units
PHYS 115	Electronics and Instrumentation [4]	4
PHYS 116	Advanced Electronics and Instrumentation	3
PHYS 130	Acoustics	3
PHYS 136	Electrodynamics of Waves, Radiation,and Materials	3
PHYS 145	Optics [4]	3
PHYS 150	Quantum Mechanics	3
PHYS 151	Advanced Modern Physics	3
PHYS 156	Classical and Statistical Mechanics	3
PHYS 162	Scientific Computing: Basic Methods	3
PHYS 163	Scientific Computing: Modeling, Simulation, and Visualization	3
PHYS 195	Teaching Internship	1 - 2
PHYS 196 Series		
PHYS 197	Laboratory Teaching Assistant	1 - 2
PHYS 199	Special Problems	1 - 3
ASTR 150	Dark Matter and Dark Energy	3
MATH 105B	Advanced Mathematics for Science and Engineering II	4

[4] If not used to satisfy other requirement of the degree (Example: PHYS 115 or PHYS 145 are required for the Bachelor of Science. If both are taken, one will count as an elective).

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		42

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Physics (Teacher Preparation)

Units required for Major: 86-87
Total units required for BA: 120

Program Description

The Science Subject Matter Program (SSMP), with emphases in Biological Sciences, Chemistry, and Physics, leads to a BA degree in the area of emphasis. It also meets the latest California Commission on Teacher Credentialing (CCTC) subject-matter requirement to enter a teaching credential program in California. In order to obtain a California K-12 Teaching Credential, a program of professional education preparation (a teaching credential program) is required in addition to completing the SSMP. Completing the SSMP and teaching credential program allows graduates to teach all four sciences (biology, chemistry, geoscience, and physics) at the general/integrated 7th-12th grade science level, in addition to the student's area of concentration at the advanced high school level. A typical credential might read, for example, SCIENCE: Chemistry.

Physics is the most fundamental science and underlies our understanding of nearly all areas of science and technology. In a broad sense, physics is concerned with the study of energy, space, and matter, and with the interactions between matter and the laws that govern these interactions. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, and condensed matter physics.

The BA degree is recommended for students who are interested in teaching Physics in high school or who want a liberal arts education with an emphasis in Physics. Physics majors are encouraged to take additional mathematics and to develop skills in the use of computers.

Currently there is a serious need in public school education for well-educated science teachers. Physics majors who have an interest in teaching should see the credential advisor in the Department (Dr. Vera Margoniner (http://catalog.csus.edu/colleges/natural-sciences-mathematics/physics-astronomy-physical-science/physics/ba-in-physics-teacher-preparation/%20mailto:Vera.Margoniner@csus.edu)) to plan an academic program and to explore ways to get involved in teaching-related activities such as tutoring, grading, and working in the schools.

Currently there is a great need for K-12 teachers educated in science. Changes in State Board of Education Standards and increasing interest in Biological Sciences have created significant demands for students

with this credential. Biological Sciences majors who have an interest in teaching should contact one of the credential advisors in the Biological Sciences Department, Melanie Loo.

Note:

- It is also possible to obtain admission to the Professional Education Program by passing a series of subject-matter examinations specified by the CTC in lieu of this Science Subject Matter Program. For information about this option contact the Teacher Preparation Program Office, Eureka Hall 216, (916) 278-6403.
- Due to policy changes from the California Commission on Teacher Credentialing and the federal No Child Left Behind mandate, the Science Subject Matter program was under review at the time of this catalog printing and is subject to revision. As a result it is important to consult a credential advisor for current details.

Minimum Grade Requirement

A grade of at least a 'C-' in all required Science Subject Matter Program courses is necessary in order to meet subject matter requirements for admission to a teaching credential program. If a grade of 'C-' is not achieved in all SSMP courses, then the current CTC approved subject matter exam must be successfully passed in order to be eligible for admission to a teaching credential program (the current exam is the CSET, tests I, II, and III).

Note: It is recommended that all coursework for the SSMP be completed before starting the Teacher Education Program. At least 15 units of the coursework or equivalent work experience must be current, i.e., completed within the past six years.

Program Requirements

Code	Title	Units
Required Lower Division Courses (58 Units)		
ASTR 4A	Introduction to the Solar System	3
or ASTR 4B	Introduction to Stars, Galaxies, and Cosmology	
or ASTR 4C	Introduction to Astrobiology	
ASTR 6	Astronomical Observation Laboratory	1
BIO 1	Biodiversity, Evolution and Ecology [1]	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I	5
CHEM 1B	General Chemistry II	5
ENVS 10	Introduction to Environmental Science	3
GEOL 10	Physical Geology	3
GEOL 10L	Physical Geology Lab	1
MATH 30	Calculus I [1]	4
MATH 31	Calculus II [1]	4
MATH 32	Calculus III	4
MATH 45	Differential Equations for Science and Engineering	3
PHYS 11A	General Physics: Mechanics [1]	4
PHYS 11B	General Physics: Heat, Light, Sound, Modern Physics	4
PHYS 11C	General Physics: Electricity and Magnetism	4
Required Upper Division Courses (22-23 Units)		
PHYS 105	Mathematical Methods in Physics	3
PHYS 106	Introduction to Modern Physics	3
PHYS 110	Classical Mechanics	3
PHYS 115	Electronics and Instrumentation	4
PHYS 124	Thermodynamics and Statistical Mechanics	3
PHYS 135	Electricity And Magnetism	3
PHYS 175	Advanced Physics Laboratory	2
PHYS 191	Senior Project	1 - 2
Elective Upper Division Requirements (6 Units)		
Select 6 units of upper-division coursework chosen in consultation with physics advisor [2]		6
Physics Colloquium Attendance		
Fulfill a minimum attendance requirement [3]		
Total Units		86-87

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] See list below for a list of Department approved electives.

[3] Majors must fulfill a minimum attendance requirement at Department Colloquia. Students should consult with the Department for details.

Elective List

Code	Title	Units
PHYS 115	Electronics and Instrumentation [4]	4
PHYS 116	Advanced Electronics and Instrumentation	3
PHYS 130	Acoustics	3
PHYS 136	Electrodynamics of Waves, Radiation,and Materials	3
PHYS 142	Applied Solid State Physics	3
PHYS 145	Optics [4]	3
PHYS 150	Quantum Mechanics	3
PHYS 151	Advanced Modern Physics	3
PHYS 156	Classical and Statistical Mechanics	3
PHYS 162	Scientific Computing: Basic Methods	3
PHYS 163	Scientific Computing: Modeling, Simulation, and Visualization	3
PHYS 195	Teaching Internship	1 - 2
PHYS 196 Series		
PHYS 197	Laboratory Teaching Assistant	1 - 2
PHYS 199	Special Problems	1 - 3
ASTR 150	Dark Matter and Dark Energy	3
MATH 105B	Advanced Mathematics for Science and Engineering II	4

[4] If not used to satisfy other requirement of the degree (Example: PHYS 115 or PHYS 145 are required for the Bachelor of Science. If both are taken, one will count as an elective).

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking [3]		3

Area B: Physical Universe and Its Life Forms (3 Units)	
B1 - Physical Science [2]	0
B2 - Life Forms [2]	0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]	0
B4 - Math Concepts [2]	0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.	3
Area C: Arts and Humanities (12 Units)	
C1 - Arts	3
C2 - Humanities	3
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (12 Units)	
Area D Course	3
Area D Course	3
Area D Course	3
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	39

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department recommends PHYS 30 to meet Area A3.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BS in Physics

Units required for Major: 74-76
Total units required for BS: 120

Program Description

Physics is the most fundamental science and underlies our understanding of nearly all areas of science and technology. In a broad sense, physics is concerned with the study of energy, space, and matter, and with the interactions between matter and the laws that govern these interactions. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, and condensed matter physics.

The BS degrees are recommended for students seeking a career in the technology sector or planning to pursue a graduate degree.

Note: Students graduating with a Bachelor of Science Degree in Physics will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Program Requirements

Code	Title	Units
Required Lower Division Courses (37 Units)		
CHEM 1A	General Chemistry I	5
CHEM 1B	General Chemistry II	5
MATH 30	Calculus I [1]	4
MATH 31	Calculus II [1]	4
MATH 32	Calculus III	4
MATH 45	Differential Equations for Science and Engineering	3
PHYS 11A	General Physics: Mechanics [1]	4
PHYS 11B	General Physics: Heat, Light, Sound, Modern Physics	4
PHYS 11C	General Physics: Electricity and Magnetism	4
Required Upper Division Courses (33-36 Units)		
PHYS 105	Mathematical Methods in Physics	3 - 4
or MATH 105A	Advanced Mathematics for Science and Engineering I	
PHYS 106	Introduction to Modern Physics	3
PHYS 110	Classical Mechanics	3
PHYS 115	Electronics and Instrumentation	3 - 4
or PHYS 145	Optics	
PHYS 124	Thermodynamics and Statistical Mechanics	3
PHYS 135	Electricity And Magnetism	3
PHYS 136	Electrodynamics of Waves, Radiation,and Materials	3
PHYS 150	Quantum Mechanics	3

PHYS 151	Advanced Modern Physics	3
PHYS 156	Classical and Statistical Mechanics	3
PHYS 175	Advanced Physics Laboratory	2
PHYS 191	Senior Project	1 - 2
Elective Upper Division Requirements (3 Units)		
Select three units of upper-division coursework chosen in consultation with an advisor [2]		3
Physics Colloquium Attendance		
Fulfill a minimum attendance requirement [3]		
Total Units		73-76

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] See list below for a list of Department approved electives.

[3] Majors must fulfill a minimum attendance requirement at Department Colloquia. Students should consult with the Department for details.

Notes:

- Students are required to complete 2 units for their Senior project (PHYS 191) either over one or two semesters
- Students with an interest in theoretical physics are encouraged to consider a minor in Mathematics.

Elective List

Code	Title	Units
PHYS 115	Electronics and Instrumentation [4]	4
PHYS 116	Advanced Electronics and Instrumentation	3
PHYS 130	Acoustics	3
PHYS 142	Applied Solid State Physics	3
PHYS 145	Optics [4]	3
PHYS 162	Scientific Computing: Basic Methods	3
PHYS 163	Scientific Computing: Modeling, Simulation, and Visualization	3
PHYS 199	Special Problems	1 - 3
ASTR 150	Dark Matter and Dark Energy	3
MATH 105B	Advanced Mathematics for Science and Engineering II	4

[4] If not used to satisfy other requirement of the degree (Example: PHYS 115 or PHYS 145 are required for the Bachelor of Science. If both are taken, one will count as an elective).

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		42

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)
Note: Students with a declared major of BS in Physics or BS in Physics (Applied Physics) are exempt from the Foreign Language Graduation Requirement.

BS in Physics (Applied Physics)

Units required for Major: 75-77
Total units required for BS: 120

Program Description

Physics is the most fundamental science and underlies our understanding of nearly all areas of science and technology. In a broad sense, physics is concerned with the study of energy, space, and matter, and with the interactions between matter and the laws that govern these interactions. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, and condensed matter physics.

The BS degrees are recommended for students seeking a career in the technology sector or planning to pursue a graduate degree.

Note: Students graduating with a Bachelor of Science Degree in Physics will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement.

Program Requirements

Code	Title	Units
Required Lower Division Courses (37 Units)		
CHEM 1E	General Chemistry for Engineering	4
ENGR 45	Engineering Materials	3
CSC 25	Introduction to C Programming	3
MATH 30	Calculus I [1]	4
MATH 31	Calculus II [1]	4
MATH 32	Calculus III	4
MATH 45	Differential Equations for Science and Engineering	3
PHYS 11A	General Physics: Mechanics [1]	4
PHYS 11B	General Physics: Heat, Light, Sound, Modern Physics	4
PHYS 11C	General Physics: Electricity and Magnetism	4
Required Upper Division Courses (29-31 Units)		
PHYS 105	Mathematical Methods in Physics	3 - 4
or MATH 105A	Advanced Mathematics for Science and Engineering I	
PHYS 106	Introduction to Modern Physics	3
PHYS 110	Classical Mechanics	3
PHYS 115	Electronics and Instrumentation	4
PHYS 124	Thermodynamics and Statistical Mechanics	3
PHYS 135	Electricity And Magnetism	3
PHYS 150	Quantum Mechanics	3
PHYS 162	Scientific Computing: Basic Methods	3
PHYS 175	Advanced Physics Laboratory	2
Select one of the following (2 units minimum):		2 - 3
PHYS 116	Advanced Electronics and Instrumentation	
PHYS 163	Scientific Computing: Modeling, Simulation, and Visualization	
PHYS 191	Senior Project	
Elective Upper Division Requirements (9 Units)		
Select 9 units of upper-division coursework in Physics or Engineering courses chosen in consultation with an advisor [2]		9
Physics Colloquium Attendance		
Fulfill a minimum attendance requirement [3]		
Total Units		75-77

[1] Course also satisfies General Education (GE)/Graduation Requirement.
[2] See list below for a list of Department approved electives.
[3] Majors must fulfill a minimum attendance requirement at Department Colloquia. Students should consult with the Department for details.

Notes:

- Students are required to complete 2 units for their Senior project (PHYS 191) either over one or two semesters
- Students with an interest in theoretical physics are encouraged to consider a minor in Mathematics.
- Students graduating with a BS in Physics will not be subject to the University's Foreign Language Graduation Requirement. Students who change major may be subject to the University's Foreign Language Graduation Requirement

Elective List

Code	Title	Units
PHYS 116	Advanced Electronics and Instrumentation [4]	3
PHYS 130	Acoustics	3
PHYS 136	Electrodynamics of Waves, Radiation,and Materials	3
PHYS 142	Applied Solid State Physics	3
PHYS 145	Optics	3
PHYS 151	Advanced Modern Physics	3
PHYS 156	Classical and Statistical Mechanics	3
PHYS 163	Scientific Computing: Modeling, Simulation, and Visualization [4]	3
PHYS 199	Special Problems	1 - 3
EEE 130	Electromechanical Conversion	3
EEE 135	Renewable Electrical Energy Sources and Grid Integration	3
ENGR 112	Mechanics Of Materials	3
ENGR 132	Fluid Mechanics	3
ENGR 181	Electronic Materials	3
ME 121	Solar Thermal and Energy Storage Systems	2
ME 122	Geothermal and Bioenergy Systems	2
ME 123	Wind, Hydro and Ocean Energy	3
ME 154	Alternative Energy Systems	3

MATH 104	Vector Analysis	3
MATH 105B	Advanced Mathematics for Science and Engineering II	4

[4] If not used to satisfy other requirement of the degree (Example: PHYS 115 or PHYS 145 are required for the Bachelor of Science. If both are taken, one will count as an elective).

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (6 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		42

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)
Note: Students with a declared major of BS in Physics or BS in Physics (Applied Physics) are exempt from the Foreign Language Graduation Requirement.

Certificate in Scientific Computing and Simulation

Units required for Certificate: 14 minimum

Program Description

A certificate program in Scientific Computing and Simulation designed for science and engineering majors is offered by the Department of Physics and Astronomy. It focuses on the basic skills of applying the computer to the solution of scientific problems which today encompass a broad range of applications in science and technology. Such skills include modeling and formulating the problem, solving the resulting equations, and displaying the results graphically. Students that earn this certificate will acquire a good grounding in such skills and be better prepared for today's industrial and academic careers.

Eligibility Information

To receive the certificate in Scientific Computing and Simulation, students must:

- achieve a 2.5 GPA in the certificate program courses;
- must be working towards a degree at Sacramento State or have special approval from the Chair of the Department of Physics and Astronomy.

Program Requirements

Code	Title	Units
Background Courses (8 Units)		
Select one of the following pairs:		8
PHYS 11A & PHYS 11B	General Physics: Mechanics General Physics: Heat, Light, Sound, Modern Physics	
PHYS 11A & PHYS 11C	General Physics: Mechanics General Physics: Electricity and Magnetism	

MATH 105A & MATH 105B	Advanced Mathematics for Science and Engineering I Advanced Mathematics for Science and Engineering II	
PHYS 5A & PHYS 5B	General Physics: Mechanics, Heat, Sound General Physics: Light, Electricity and Magnetism, Modern Physics	
Computing Courses (6 Units)		
PHYS 162	Scientific Computing: Basic Methods	3
PHYS 163	Scientific Computing: Modeling, Simulation, and Visualization	3
Total Units		14

Certificate in Scientific Instrument Development

Units required for Certificate: 11 minimum

Program Description

A certificate in Scientific Instrument Development is available through the Department of Physics and Astronomy. The Scientific Instrument Development certificate program focuses not only on using scientific instruments, but also will teach the fundamentals of electronics, computer interfacing, and machining. Students that earn this certificate will be prepared to design, prototype, and construct instruments for a wide range of scientific applications.

Eligibility Information

To receive the certificate in Scientific Instrument Development, students must:

- achieve a 2.5 GPA in the certificate program courses;
- must be working towards a degree at Sacramento State or have special approval from the Chair of the Department of Physics and Astronomy.

Program Requirements

Code	Title	Units
PHSC 75	Introduction to Machine Shop Practices	2
PHYS 115	Electronics and Instrumentation	4
PHYS 116	Advanced Electronics and Instrumentation	3
Select one of the following:		2 - 4
CHEM 133	Chemical Instrumentation	
CHEM 141	Physical Chemistry Laboratory	
GEOL 197	Advanced Laboratory Techniques for Geology	
PHYS 175	Advanced Physics Laboratory	
Total Units		11-13

Minor in Physics

Units required for Minor: 21, all of which must be taken in Physics, and a minimum of 9 upper division units is required[1]

[1] Written approval from a Physics faculty advisor is required.

Program Description

Physics is the most fundamental science and underlies our understanding of nearly all areas of science and technology. In a broad sense, physics is concerned with the study of energy, space, and matter, and with the interactions between matter and the laws that govern these interactions. More specifically, physicists study mechanics, heat, light, electric and magnetic fields, gravitation, relativity, atomic and nuclear physics, and condensed matter physics.

Program Requirements

Code	Title	Units
Required Lower Division Courses (12 Units)		
PHYS 11A	General Physics: Mechanics	4
PHYS 11B	General Physics: Heat, Light, Sound, Modern Physics	4
PHYS 11C	General Physics: Electricity and Magnetism	4
Required Upper Division Courses (3 Units)		
PHYS 106	Introduction to Modern Physics	3
Additional Upper Division Requirements (6 Units)		
Select 6 units of electives in consultation with an advisor:		6
PHYS 105	Mathematical Methods in Physics	
PHYS 110	Classical Mechanics	
PHYS 115	Electronics and Instrumentation	
PHYS 124	Thermodynamics and Statistical Mechanics	
PHYS 130	Acoustics	
PHYS 135	Electricity And Magnetism	
PHYS 136	Electrodynamics of Waves, Radiation,and Materials	
PHYS 142	Applied Solid State Physics	
PHYS 145	Optics	
PHYS 150	Quantum Mechanics	
PHYS 151	Advanced Modern Physics	
PHYS 162	Scientific Computing: Basic Methods	
PHYS 175	Advanced Physics Laboratory	
Total Units		21

Note: PHYS 5A, PHYS 5B may be substituted for PHYS 11A, PHYS 11C, but the 21-unit minimum must be met by additional courses in one of two ways:

- PHYS 106 plus three other upper division Physics courses **OR**
- PHYS 106 plus PHYS 11B plus two other upper division Physics courses.

Prehealth Professional Program

College of Natural Sciences and Mathematics

Program Description

Students planning to attend medical (allopathic or osteopathic), dental, pharmacy, veterinary, or optometry school are not required to complete a particular undergraduate major. In fact, most health professional schools state that students can be admitted after completing 90 semester units of college credit that includes a set of specified courses. However, the reality is that most students who are accepted to health professional schools earn a bachelor's degree prior to admission. A majority of

students applying to health professional schools major in biological sciences or chemistry. However, the most important criterion in selecting a major is that you have a real interest in the field.

The pre-health professional advising patterns described in this section are not majors. For example, Sacramento State does not offer a 'Pre-med major.' Instead, the advising patterns identify the set of courses that must be completed before admission to particular types of health professional schools. In the case of some majors (e.g., Biological Sciences and Chemistry) there is considerable overlap in course requirements. However, the courses can be taken along with any major (e.g., English, Philosophy, Psychology, etc.) and used to satisfy General Education or elective requirements for the baccalaureate degree.

The common set of courses recommended for all of the medical-related professional schools covered in this section are listed below. Additional requirements for specific health professional schools follow the list of recommended core curriculum. It is important to note that requirements for a particular type of professional school (e.g., Dental School) may differ from one university to another, and that requirements are subject to change. The requirements listed in this section are those identified by most universities offering the identified professional program. Therefore, the lists may include courses that are not required by a particular university and may omit a course that is required by another university. It is strongly recommended that students interested in applying to professional schools contact one of the advisors listed in this section for assistance in planning their programs. It is also strongly recommended that students visit the Web sites of the universities they plan to apply to in order to be sure that they meet all requirements.

All health professional schools require strong academic ability and a good foundation in the sciences. In addition, good problem solving ability, effective oral and written communication skills, an awareness of interpersonal dynamics, an appreciation for cultural diversity, and an understanding of health care issues are important. Therefore, in addition to science courses, pre-health professional students should take general education courses that will enrich their non-science preparation in these areas.

It is also crucial that students have volunteer experience related to their professional goals. Such experience will provide more insight into how well suited you are to the work setting you are considering. Academic credit may be received for volunteer work by seeing an advisor and registering for BIO 195.

For more information about the Pre-Health Professional Program, please click here (http://www.csus.edu/prehealth/).

Contact Information

Robert Crawford, Biological Sciences
Humboldt Hall 211D
916) 278-6360
Email: Robert Crawford (robert.crawford@csus.edu)

Enid Gonzalez-Orta, Biological Sciences
Humboldt Hall 211F
(916) 278-6438
Email: Enid Gonzalez-Orta (gonzalez-orta@csus.edu)

Brett Holland, Biological Sciences
Sequoia Hall 120C
(916) 278-7678
Email: Brett Holland (holland@csus.edu)

Jennifer Lundmark, Biological Sciences
Sequoia Hall 314
(916) 278-6569
Email: Jennifer Lundmark (lundmark@csus.edu)

Hao Nguyen, Biological Sciences
Humboldt Hall 211D
(916) 278-6569
Email: Hao Nguyen (hao.nguyen@csus.edu)

Adam Rechs, Biological Sciences
Sequoia Hall 120B
(916) 278-6244
Email: Adam Rechs (rechs@csus.edu)

Rosalee Sprowls, Biological Sciences
Sequoia Hall 310
(916) 278-7391
Email: Rosalee Sprowls (sprowls@csus.edu)

Christina Strandgaard, Biological Sciences
Sequoia Hall 308
(916) 278-7152
Email: Christina Strandgaard (cstrand@csus.edu)

Mary McCarthy-Hintz, Chemistry
Sequoia Hall 538A
(916) 278-4534
Email: Mary McCarthy-Hintz (mccarthy@csus.edu)

Kathie McReynolds, Chemistry
Sequoia Hall 534
(916) 278-6551
Email: Kathie McReynolds (kdmcr@csus.edu)

James Miranda, Chemistry
Sequoia Hall 420
(916) 278-6189
Email: James Miranda (jmiranda@csus.edu)

Linda Roberts, Chemistry
Sequoia Hall 508
(916) 278-3892
Email: Linda Roberts (robertslm@csus.edu)

Tom Savage, Chemistry
Sequoia Hall 510
(916) 278-3918
Email: Tom Savage (tjsavage@csus.edu)

Recommended Core Curriculum

Units required: 46

Note: Core courses should be taken by all students who plan to attend a medically related professional school, regardless of major.

Code	Title	Units
BIO 1	Biodiversity, Evolution and Ecology	5
BIO 2	Cells, Molecules and Genes	5
CHEM 1A	General Chemistry I	5
CHEM 1B	General Chemistry II	5

CHEM 24	Organic Chemistry Lecture I [1]	3
CHEM 25	Organic Chemistry Laboratory [1]	3
CHEM 124	Organic Chemistry Lecture II [1]	3
ENGL 5	Accelerated Academic Literacies	3
ENGL 20	College Composition II	3
PHYS 5A	General Physics: Mechanics, Heat, Sound	4
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics	4
PSYC 2	Introductory Psychology	3
Total Units		46

[1] Some Dental Schools and Optometry Schools require only one semester of Organic Chemistry with lab. This can be satisfied by taking CHEM 20 (Organic Chemistry Lecture Brief Course) (3 units) and CHEM 20L (Introductory Organic Chemistry Laboratory) (1 unit) instead of CHEM 24, CHEM 25 and CHEM 124.

Note: In addition to the courses listed above, most health professional schools require that students complete 6-12 units of humanities coursework and 6-12 units of coursework in the social and behavioral sciences. Courses included in areas C and D, respectively, of the Sacramento State General Education program satisfy these requirements. A few schools specifically require an English literature course as one of the humanities courses, and a few schools specifically require Sociology (SOC 1) as one of the courses from the social and behavioral sciences.

Recommended Field Specific Curricula

Allopathic Medical Schools

When most people use the term 'Medical School,' they are usually referring to Allopathic Medical Schools that grant the M.D. (Doctor of Medicine) degree. There is, however, another type of Medical School, called Osteopathic Medical School (described below) that grants the D.O. (Doctor of Osteopathic Medicine) degree. Both M.D.'s and D.O.'s are eligible for licensure to practice medicine as physicians and surgeons in the State of California.

Applicants do not need a 4.0 GPA to get into an allopathic medical school. However, GPA is a reflection of your ability to handle university work and is an important part of your application. A successful applicant must be able to offer more than a good GPA. The attributes of motivation, social concern, communication skills, and maturity are given great weight in the selection process.

All students applying to allopathic medical schools must complete the recommended course requirements listed above. In addition to the common courses, most allopathic medical schools require one semester to one year of college mathematics. In general, the mathematics requirement can be satisfied by taking a full year of calculus. However, some medical schools specify that one of the courses must be statistics. Therefore, if you want to be sure that you have completed the math requirement for the greatest number of medical schools, you should take the following courses:

Code	Title	Units
MATH 26A	Calculus I for the Social and Life Sciences	3 - 4
or MATH 30	Calculus I	
MATH 26B	Calculus II for the Social and Life Sciences	3 - 4
or MATH 31	Calculus II	
STAT 1	Introduction to Statistics	3
Total Units		9-11

It should be noted that there are variations in medical school admission requirements. For example, some schools also require or recommend one or more of the following courses:

Code	Title	Units
BIO 127	Developmental Biology (embryology)	4
BIO 184	General Genetics (genetics)	4
BIO 121	Molecular Cell Biology (cellular or molecular biology)	3
or BIO 180	Advanced Molecular Biology	
CHEM 161	General Biochemistry (biochemistry)	3
And/or one year of a foreign language		

For information on requirements for specific schools, contact your pre-health advisor or visit the Web site of the school you are interested in attending.

Applicants must take the Medical College Admissions Test (MCAT). The test should be taken after completing the recommended core curriculum. You should allow at least 10 months between taking the exam and the date of planned matriculation. The schedule for the MCAT is currently under review. It is expected that beginning January 2007, the MCAT will become computer based and will be offered two to four times per year. For more information about dates, students should go to: www.aamc.org (http://www.aamc.org/). To ensure timely submission of all application materials (including letters of recommendation), students are strongly advised to take the exam no later than April of the year preceding planned matriculation. Your MCAT scores, especially your verbal reasoning score, are an important part of your application.

Most Allopathic Medical Schools subscribe to an application service called The Association of Medical Colleges Application Service (AMCAS). What this means is that you will have to complete a single (but very lengthy and complicated) initial application and submit a single set of transcripts and MCAT scores to AMCAS. In turn, AMCAS, for a fee, will distribute the materials to the medical schools you identify on the application. The AMCAS application is usually available in June of the year preceding the year you wish to matriculate. For example, the AMCAS application for admission in fall 2007 is available in June 2006. Participating medical schools set their own deadlines for receipt of application materials from AMCAS. The earliest deadline is usually November 1 of the year preceding planned admission. It is strongly recommended that you complete your AMCAS application soon after it becomes available, even if you plan to take the August MCAT.

The medical schools will review your AMCAS application and MCAT scores. After this review, the school will either reject your application or invite you to submit a school specific secondary application and letters of recommendation. Following a review of these materials, the school will either reject your application or invite you for an interview.

Osteopathic Medical School

Doctors of Osteopathic Medicine (D.O.'s) are 'complete physicians.' This means that they are fully trained and licensed to diagnose illness, prescribe medication, and perform surgery. D.O.'s and allopathic physicians (M.D.'s) are the only two types of complete physicians in the United States. In California, as in most other states, the law accords

holders of the D.O. and M.D. equal professional status and privileges as licensed physicians and surgeons. D.O.'s may practice all branches of medicine, including specialties like Pediatrics, Obstetrics and Gynecology, and Emergency Medicine.

To become a D.O., you must attend a School/College of Osteopathic Medicine. At the time of this catalog, 19 schools/colleges offered programs leading to the D.O. degree. The main difference between the training of osteopathic and allopathic physicians is that osteopathic medical students must take additional training in osteopathic manipulative medicine. To learn more about osteopathic medicine, students should visit the Web site of The American Association of Colleges of Osteopathic Medicine (AACOM).

To be admitted to a School/College of Osteopathic Medicine, a student must complete the recommended core curriculum listed above. As is the case for most health professional schools, students may be admitted without a baccalaureate degree. However, 97% of students enrolled in Osteopathic Medical Schools hold at least a baccalaureate degree. Most osteopathic medical schools do not specify a college mathematics requirement. However, it is recommended that students complete the same math courses that are required for admission to an allopathic medical school. In addition, like allopathic medical schools, some osteopathic medical schools also recommend or require upper division courses in biology and biochemistry.

Students seeking admission to osteopathic medical school must also take the Medical College Admissions Test (MCAT). Most osteopathic medical schools subscribe to an application service called The American Association of Colleges of Osteopathic Medicine Application Service (AACOMAS). Therefore, applicants file one application, a single set of transcripts, and one set of MCAT scores to AACOMAS, and the service distributes these materials to each of the colleges designated on the application.

Like allopathic medical schools, osteopathic medical schools require letters of recommendation at some stage in the process. However, it is important to note that one of the letters must be from a practicing doctor of osteopathic medicine. Therefore, students thinking about applying to osteopathic medical school should try to make contact with a D.O. early in their undergraduate studies.

Dental Schools

To become a dentist, students must complete a program leading to the D.D.S. (Doctor of Dental Surgery) or D.M.D. (Doctor of Dental Medicine) degree. Most dental school programs are four-year programs. However, a few dental schools (e.g., University of the Pacific) offer a three-year program. To be admitted to dental school, students must complete the recommended core curriculum listed above. In addition, many dental schools recommend or require that students complete one or more of the following courses:

Code	Title	Units
BIO 22	Introductory Human Anatomy (anatomy)	4
BIO 131	Systemic Physiology (physiology)	4
BIO 184	General Genetics (genetics)	4
BIO 127	Developmental Biology (embryology)	4
CHEM 161	General Biochemistry (biochemistry)	3
STAT 1	Introduction to Statistics (statistics)	3

Dental school applicants must take the Dental Aptitude Test (DAT) which is given year-round by appointment on computers. The test should be taken at least 10 months prior to matriculation.

Most dental schools subscribe to an application service called the Associated American Dental Schools Application Service (AADSAS). Therefore, students applying to participating schools must complete a single initial application and submit a single set of transcripts and DAT scores to AADSAS. However, after reviewing a students AADSAS application and DAT scores, most participating dental schools will require that students submit secondary applications and letters of recommendation.

Pharmacy Schools

To become a pharmacist, students must complete a program leading to the Doctor of Pharmacy (Pharm.D.) degree. Some, but not all, schools require the Pharmacy College Admission Test (PCAT). Prerequisite coursework also varies by school. Therefore, you should check with your pre-health advisor and the school's Web site for information about standardized test and course requirements. Completion of the recommended core curriculum plus the following courses will satisfy course requirements for most pharmacy schools:

Code	Title	Units
BIO 22	Introductory Human Anatomy	4
BIO 131	Systemic Physiology	4
BIO 139	General Microbiology	4
COMS 4	Introduction to Public Speaking	3
ECON 1A	Introduction to Macroeconomic Analysis	3
MATH 26A	Calculus I for the Social and Life Sciences [1]	3 - 4
or MATH 30	Calculus I	
MATH 26B	Calculus II for the Social and Life Sciences	3 - 4
or MATH 31	Calculus II	
Total Units		24-26

[1] Some schools require only one semester of calculus (MATH 26A or MATH 30).

Veterinary Schools

To become a veterinarian, students must complete a program of study leading to the Doctor of Veterinary Medicine (D.V.M.) degree. Although it is becoming less difficult to gain admission to any U.S. veterinary school without being a resident of the state in which the school is located, residents of California most often attend the School of Veterinary Medicine at UC Davis. Applicants to the UC Davis Veterinary School must take the Graduate Record Examination (GRE) General Aptitude Test. The GRE must be taken no later than October 1 of the year preceding planned matriculation. Applicants to other veterinary schools are usually required to take the Veterinary College Admission Test (VCAT). Applicants to veterinary school must have formal animal/veterinary experience.

In addition to the recommended core curriculum listed above, students planning to attend the School of Veterinary Medicine at UC Davis should take the following courses:

Code	Title	Units
BIO 127	Developmental Biology	4
BIO 131	Systemic Physiology	4

BIO 184	General Genetics	4
CHEM 161	General Biochemistry	3
STAT 1	Introduction to Statistics	3
Total Units		18

Optometry Schools

To become an optometrist, students must complete a program of study leading to the Doctor of Optometry (O.D.) degree. Applicants must take the Optometry Admissions Test (OAT). The OAT is administered twice a year, once in October and once in February. The test should be taken no later than the fall of the year preceding the intended date of matriculation (e.g., in Fall 2009 for admission in Fall 2010). Prerequisite course requirements vary by school. However, completion of the recommended core curriculum plus the following courses will satisfy course requirements for most optometry schools:

Code	Title	Units
BIO 22	Introductory Human Anatomy	4
BIO 131	Systemic Physiology	4
BIO 139	General Microbiology	4
CHEM 161	General Biochemistry	3
MATH 26A	Calculus I for the Social and Life Sciences [1]	3 - 4
or MATH 30	Calculus I	
MATH 26B	Calculus II for the Social and Life Sciences	3 - 4
or MATH 31	Calculus II	
STAT 1	Introduction to Statistics	3
Total Units		24-26

[1] Some schools require only one semester of calculus (MATH 26A or MATH 30).

Science Subject Matter

College of Natural Sciences and Mathematics

Program Description

Science Subject Matter Program (Biology) (p. 810)

Science Subject Matter Program (Chemistry) (p. 829)

Science Subject Matter Program (Physics) (p. 879); known as the BA in Physics (Teacher Preparation)

Career Possibilities

Middle School Science Teacher · High School Teacher of General Science and Biology, Chemistry, Geoscience, or Physics depending on choice of major

Contact Information

Center for Mathematics and Science Education
Sequoia Hall 330
(916) 278-5487
Center for MASE Website (http://www.csus.edu/mase/)

Subject Matter Program (Foundational Level General Science)

The Science Subject Matter Program in foundational level general science is designed to meet the California Commission on Teacher Credentialing (CTC) subject matter requirement for students to enter a California Single Subject teaching credential program. Meeting the subject matter requirement is a credential program admission requirement, and can be met either through a subject matter program (such as those described below) or by taking a state approved content exam (currently the California Subject Exam for Teachers, the CSET). In order to meet the subject matter obtain a California K-12 Teaching Credential, a program requirement, all courses must be completed with a grade of 'C-' or better. In order to teach public school in California, you must also complete a teaching credential program.

Subject matter programs are not degrees or concentrations; instead they are a series of courses that allow a student to meet the requirements for admission to a teaching credential program. Students must also complete a BA or BS degree (with any major) to fulfill the credential requirements.

The foundational science subject matter program is typically an entry-level credential. It is important for students obtaining the foundational science credential to see a faculty advisor or the department chair in the department of their academic major or the success center in the College of Education for feedback on the potential career paths for this credential. It is recommended that they do so early as it is critical that their science coursework be carefully planned and coordinated to include the required subject matter program courses. In addition, students are encouraged to become involved with education related activities like grading, assisting in labs, tutoring K-12 students, and visiting schools; please speak with the subject matter advisors in your area for more information.

Program Requirements

Code	Title	Units
ASTR 4A	Introduction to the Solar System	3
ASTR 4B	Introduction to Stars, Galaxies, and Cosmology [1]	3
BIO 1 & BIO 2	Biodiversity, Evolution and Ecology Cells, Molecules and Genes [1]	4 - 10
or BIO 10 & BIO 15L	Basic Biological Concepts Laboratory Investigations in Biology	
CHEM 1A	General Chemistry I [1]	5
CHEM 1B	General Chemistry II	5
ENVS 10	Introduction to Environmental Science [1]	3
GEOL 10	Physical Geology [1]	3
Select one of the following series:		8 - 12
PHYS 5A & PHYS 5B	General Physics: Mechanics, Heat, Sound General Physics: Light, Electricity and Magnetism, Modern Physics [1]	
PHYS 11A & PHYS 11B & PHYS 11C	General Physics: Mechanics General Physics: Heat, Light, Sound, Modern Physics General Physics: Electricity and Magnetism (and) [1]	
Total Units		34-44

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Subject Matter Program (Physics)

The Science Subject Matter Program in physics is designed to meet the California Commission on Teacher Credentialing (CTC) subject matter requirement for students to enter a California Single Subject teaching credential program. Meeting the subject matter requirement is a credential program admission requirement, and can be met either through a subject matter program (such as those described below) or by taking a state approved content exam (currently the California Subject Exam for Teachers, the CSET). In order to meet the subject matter obtain a California K-12 Teaching Credential, a program requirement, all courses must be completed with a grade of 'C-' or better. In order to teach public school in California, you must also complete a teaching credential program.

Subject matter programs are not degrees or concentrations; instead they are a series of courses that allow a student to meet the requirements for admission to a teaching credential program. Students must also complete a BA or BS degree (with any major) to fulfill the credential requirements.

Science majors who intend to pursue a teaching credential should see a faculty advisor or the department chair in the department of their academic major. It is recommended that they do so early as it is critical that their science coursework be carefully planned and coordinated to include the required subject matter program courses. In addition, students are encouraged to become involved with education related activities like grading, assisting in labs, tutoring K-12 students, and visiting schools; please speak with the subject matter advisors in your area for more information.

Program Requirements

Code	Title	Units
ASTR 4A	Introduction to the Solar System	3
ASTR 4B	Introduction to Stars, Galaxies, and Cosmology [1]	3
BIO 1	Biodiversity, Evolution and Ecology	4 -
& BIO 2	Cells, Molecules and Genes [1]	10
or BIO 10	Basic Biological Concepts	
& BIO 15L	Laboratory Investigations in Biology	
CHEM 1A	General Chemistry I [1]	5
CHEM 1B	General Chemistry II	5
ENVS 10	Introduction to Environmental Science [1]	3
GEOL 10	Physical Geology [1]	3
PHYS 11A	General Physics: Mechanics [1]	4
PHYS 11B	General Physics: Heat, Light, Sound, Modern Physics	4
PHYS 11C	General Physics: Electricity and Magnetism	4
PHYS 106	Introduction to Modern Physics	3
PHYS 115	Electronics and Instrumentation	4
Total Units		45-51

[1] Course also satisfies General Education (GE)/Graduation Requirement.

College of Social Sciences and Interdisciplinary Studies

College Overview

The College of Social Sciences and Interdisciplinary Studies (SSIS) provides a curriculum that examines human society in all aspects. The College focuses on such topics as relationships among individuals and groups, the functioning of the political system and economy, the nature and influence of culture, relationships among nations, and the relation of human society to the natural environment.

The College offers Bachelor's degree programs in Anthropology, Asian Studies, Economics, Environmental Studies, Ethnic Studies, Family and Consumer Sciences, Gerontology, Liberal Studies, Political Science, Psychology, Social Science, Sociology, and Women's Studies. Additionally, SSIS offers minors in most of the above disciplines as well as African Studies, Asian American Studies, Chicano Latino Studies, Middle East and Islamic Studies, Native American Studies, Peace and Conflict Resolution, Military Studies, California Studies, and Labor Studies. The College also has several Master's degree programs including those in Anthropology, Economics, Political Science, Psychology, Public Policy and Administration, Sociology, Urban Land Development and a Special Masters in Gerontology and Public Policy and Administration. The University's Educational Doctorate Program reflects a partnership between an SSIS department (Public Policy and Administration) and the College of Education. Finally, units within the College offer various academic certificates (e.g., Pan African Studies, Collaborative Governance).

The programs in the College use and teach skills in critical thinking and problem solving; finding and using information; oral and written communication; policy analysis; adaptation to a variety of situations; and sensitivity to and understanding of other peoples and their customs, problems, values, and aspirations. The College is further dedicated to developing a sense of responsibility to participate in and contribute to the human community and a healthy natural environment.

The knowledge and skills developed by the College's programs are applicable to a wide variety of careers. Students should consult with individual departments for further career and graduate and professional school opportunities.

For more information about the College of Social Sciences and Interdisciplinary Studies, please click here (http://www.csus.edu/ssis/).

Program Descriptions

Program Descriptions

Anthropology

Located at the nexus of Natural Sciences, Social Sciences, and Humanities, Anthropology integrates diverse forms of knowledge into practical indexes for engagement with our everyday concerns. The program provides students "hands-on" experience to complement their in-class learning. Undergraduate and graduate students can participate in various projects including archaeological excavations, community engagement programs, and intern at various governmental and non-governmental agencies.

Asian Studies

The Asian Studies Program at California State University, Sacramento is an interdisciplinary program that seeks to prepare our students for a future in an economically and politically important and inter-connected Pacific Basin by providing an in-depth understanding of Asia from a political, cultural, and historical perspective.

Economics

The Economics major is designed to provide students with a broad education with special emphasis on the economic aspects of society and familiarization with techniques for the analysis of contemporary economic problems. A graduate degree is also offered.

Environmental Studies

From the B.A. or B.S. in Environmental Studies degree, students gain an interdisciplinary understanding of challenging issues like pollution, wildlife and wilderness preservation and restoration, land use, biodiversity loss, resource depletion, energy and natural resource conservation. They learn how policy and practice assess and address those challenges towards resilient natural systems and a sustainable society.

Ethnic Studies

Ethnic Studies offers an undergraduate degree through an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicanx-Latinx, and Native Americans. The program directs students to critically examine the contributions made by these groups to world civilization and to American society.

Family and Consumer Sciences

The Family and Consumer Sciences Department offers a Bachelor of Science degrees in Family Studies and Human Development; Fashion Merchandising and Management; Nutrition and Food, with the option of a Didactic Program in Dietetics; and Family and Consumer Sciences Education (Pre-credential Single Subject Program). Our majors study relationships between people and their diverse environments, focusing on the integration of physical, biological, cultural, economic and social influences on human behavior, lifespan development, and health.

Gerontology

Gerontology is an applied interdisciplinary program offering courses from a variety of departments and colleges. The Program prepares students to address challenges and positive life transitions related to individual and family health and illness in an aging society. Students apply concepts and theories in several service learning courses and two academically structured internships which aids in providing a solid knowledge and experiential base for careers in a wide variety of settings serving elders.

Liberal Studies

Students enjoy a wide-ranging selection of courses in different disciplines as they prepare for careers in K-12 education or in business and government.

Political Science

The Department of Political Science offers three majors including Political Science, International Relations, and Political-Science Journalism. We also offer a minor and a Masters in Political Science. Ideally located in the state capital, the Department offers students unique opportunities to integrate their studies of politics and theory through an extensive range of internships in state and local government.

Psychology

The undergraduate and graduate programs in Psychology allow students to develop a scientific understanding of the biological, cognitive, cultural, developmental, and social aspects of human behavior.

Public Policy Administration

The Department of Public Policy and Administration focuses on professional training for graduate students. It offers a Master of Public Policy and Administration and a Master of Science in Urban Land Development. As well, the Department collaborates with Gerontology to provide a Special Masters in Gerontology and Public Policy and Administration. Additionally, the Department offers a Certificate in Collaborative Governance for matriculated graduate students, a Certificate in Judicial Administration through the College of Continuing Education, and participates in the Doctorate in Educational Leadership Program.

Social Science

The Social Science Program provides a major and concurrent subject matter preparation for the Single Subject Teaching Credential in Social Science.

Sociology

The study of Sociology gives students the ability to observe human behavior, analyze data, and collaborate with others to achieve desired social change. The mission of the Sociology Department is to provide our students with the theoretical and substantive knowledge to participate as skilled professionals within the institutions and organizations and organizations.

Urban Land Development

The Master of Urban Land Development is a professional degree opportunity for graduate students interested in a public and/or private sector career in land development in an urban setting. The program provides both the business finance/real estate knowledge and public policy skills necessary to be successful in this endeavor.

Women's Studies

One of the earliest programs in the country, Women’s Studies at Sacramento State is a dynamic interdisciplinary field which draws undergraduate majors and minors from diverse backgrounds, offering courses on a wide range of topics drawn from the Social Sciences and Humanities. Juxtaposing knowledge of feminist theory with political projects, internships and personal experiences, the department facilitates political activism through active community involvement.

Departments/Programs

- Anthropology: BA; MA; Minor
- Asian Studies: BA; Minor
- Economics: BA; Certificate; MA; Minor
- Environmental Studies: BA; BS; Minor
- Ethnic Studies: BA; Certificate; Minor
- Family and Consumer Sciences: BS programs; Certificate; Minor; Subject Matter
- Gerontology: BS; Certificate; Minor
- Liberal Studies: BA
- Military Studies: Minor
- Peace Corp Prep Certificate

- Political Science: BA programs; Certificate; MA; Minors
- Psychology: BA; MA; Minor
- Public Policy and Administration: Certificate; MA; MS
- Social Science: BA
- Sociology: BA; MA; Minors
- Women's Studies: BS; Minor

Centers/Institutes

The College of Social Sciences and Interdisciplinary Studies has a long history of involvement in social policy-oriented scholarship and instruction. That history, and the College's current roster of talented researchers and instructors, has placed SSIS at the forefront of the University's efforts to meet diverse community needs, consistent with the stated values of the University's strategic plan. Many of these efforts that are under the College's purview are channeled through the following centers, institutes, and other entities:

- Archaeological Curation Facility
- Center for Pacific Asian Studies
- Cooper-Woodson College Enhancement Program
- Educational Insights Center (EdInsights)
- Full Circle Project
- Institute for Social Research (ISR)
- Iranian and Middle Eastern Studies Center
- Task Force for the Center on Race, Immigration & Social Justice

Contact Information

Dianne Hyson, Dean
Marya Endriga, Associate Dean for Student and Personnel Success
Boatamo 'Ati' Mosupyoe, Associate Dean for Resource and Program Management
Aaron Eichenberger, College Resource Analyst
Marsha Robinson, College Liaison for Recruitments / Administrative Analyst/Specialist
Heather Mummaw, Marketing and Operations Coordinator
Cheryl Lugo, Student Success Coordinator
Mayrose Acob, Graduation and Retention Coordinator
Anne Montgomery, Travel and Scholarship Coordinator
Rodrigo da Silva, Administrative Support Coordinator
College of Social Sciences & Interdisciplinary Studies (http://www.csus.edu/ssis/)
Amador Hall 255
(916) 278-6504

African Studies

College of Social Sciences and Interdisciplinary Studies

Program Description

The Minor and Certificate in African Studies are identical programs. The Minor is recommended for students undertaking completion of a Bachelor's degree. The Certificate is recommended for students who have already completed a Bachelor's degree.

The program is intended to improve students' understanding of modern Africa. As a significant part of the world community, Africa merits focused and sustained study. This program provides a cohesive, directed effort to develop students' knowledge and appreciation for Africa's peoples, geography, institutions, arts, customs, languages, traditions, resources, politics, and social structures. The program is designed and structured in a way that will be useful to the student, both professionally and academically. The Minor is of particular relevance for students interested in acquiring an integrated perception and understanding of Africa. The program provides different options: a specific emphasis in international relations; interests in a particular aspect of African life such as art, history, or society; or general intellectual curiosity.

The CSU International Programs provide opportunities for students at Sacramento State to study and live in Africa. This constitutes a valuable adjunct to African Studies on the campus. Students are strongly urged to take at least one year of a language used in Africa other than English. Course selection for each student is worked out with an advisor from the African Studies faculty in conjunction with the Director of Pan African Studies.

Degree Programs

Certificate in African Studies (p. 892)

Minor in African Studies (p. 893)

Contact Information

Boatamo Mosupyoe, Director African Studies
Chair/Professor Ethnic Studies
Amador Hall 462D
(916) 278-3536
(916) 278-7570

Faculty

AL-QAZZAZ, AYAD

CAMERON-WEDDING, RITA

DUBE, SMILE

GATSON, JESSIE

GREEN, RICKY

KIBURI, FUNDI

MOSUPYOE, BOATAMO

UWAZIE, ERNEST

WHEELER, VALERIE

Certificate in African Studies

Units required for Certificate: 21

Program Description

The program is intended to improve students' understanding of modern Africa. As a significant part of the world community, Africa merits focused and sustained study. This program provides a cohesive, directed effort to develop students' knowledge and appreciation for Africa's peoples, geography, institutions, arts, customs, languages, traditions, resources, politics, and social structures. The program is designed and structured in a way that will be useful to the student, both professionally and academically. The program provides different options: a specific emphasis in international relations; interests in a particular aspect of African life such as art, history, or society; or general intellectual curiosity.

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Program Requirements

Code	Title	Units
ETHN 10	Africa: Myths and Realities	3
GOVT 142		3
HIST 7	History of African Civilizations	3
HIST 141	History of Africa Since 1800	3
HIST 142	History of Women in Africa	3
Select two of the following:		6
ETHN 1A	Elementary Swahili	
ETHN 1B	Elementary Swahili	
ETHN 70	Introduction to Pan African Studies	
ETHN 171	African Religions and Philosophies	
ETHN 177	Topics In African Studies	
SOC 162	Middle Eastern Societies and Culture	
Total Units		21

Minor in African Studies

Units required for Minor: 21

Program Description

The program is intended to improve students' understanding of modern Africa. As a significant part of the world community, Africa merits focused and sustained study. This program provides a cohesive, directed effort to develop students' knowledge and appreciation for Africa's peoples, geography, institutions, arts, customs, languages, traditions, resources, politics, and social structures. The program is designed and structured in a way that will be useful to the student, both professionally and academically.

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ETHN 177	Topics In African Studies	
SOC 162	Middle Eastern Societies and Culture	
Total Units		21

Anthropology

College of Social Sciences and Interdisciplinary Studies

Program Description

Anthropology is the study of humans, past and present. Anthropologists take a broad approach to understanding the varieties of human experience, which uniquely places us at the juxtaposition of the social sciences, natural sciences and the humanities. Anthropology is traditionally organized into four subfields that offer distinctive skills.

Cultural and Social Anthropology deals with the social lives of people around the world, including our own society: economic systems, legal practices, kinship, religions, medical practices, folklore, arts and political systems, as well as the interrelationship of these systems in environmental adaptation and social change. Anthropological Linguistics deals with varied aspects of human language and the characteristics of nonhuman communication systems, to achieve an understanding of past and present human language systems and their significance in social life.

Biological Anthropology is a biological science that deals with adaptations, variability and evolution of humans, and our living and fossil relatives. It is also a social science because biological anthropologists study human biology within the context of culture and behavior. Simply put, they study humans from a biocultural perspective across space and time. Physical Anthropology describes and compares world human biology. Focuses on humans and their primate order, and seeks to document and understand the interplay of culture and biology in the course of human evolution and adaptation.

Archaeology focuses on the material remains of human societies from the remote and recent past with emphasis on reconstructing and understanding past modes of human cultural adaptation and change.

While maintaining exposure to these four subfields, the Anthropology program allows students to sharpen their skills in specific domains of anthropological thought and practice. Students may choose from three concentrations that share a common foundation.

- Archaeology and Biological Anthropology (ABA): emphasizes a scientific approach to anthropology. Studying diverse topics including; evolutionary processes, human variation, ecology, skeletal analysis and zoo-archaeology, it prepares students for careers in the anthropological sciences in both the public and private sectors, such as cultural resources management, forensic science; collections management, and advanced graduate studies in anthropological sciences or related disciplines.
- Culture, Language and Society (CLS): introduces students to knowledge and skills necessary for a nuanced understanding and engagement with the world we live in. It prepares students for

graduate studies in socio-cultural and linguistic anthropology, professional careers in government, business, law, healthcare and any contexts that require attention to cultural, social and linguistic dynamics
- General Anthropology (GA): constitutes a solid liberal arts foundation that prepares students for careers and graduate studies in fields that call for a broad exposure to anthropological knowledge. Students, under the guidance of a faculty advisor, can also choose to customize a program of study to pursue individualized academic or professional interests.

Degree Programs

BA in Anthropology (General Anthropology) (p. 909)

BA in Anthropology (Archaeology and Biological Anthropology) (p. 906)

BA in Anthropology (Culture, Language and Society) (p. 907)

Minor in Anthropology (p. 912)

MA in Anthropology (p. 911)

Special Features

- Diverse faculty who are widely published and enjoy national repute in their specializations.
- Regular activities include Faculty Colloquia, the Sacramento Anthropological Society sponsored brown bag discussions and annual symposium.
- Extensive ethnographic and archaeological collections, housed in the Museum of Anthropology and the Archaeological Curation Facility, afford students opportunities to learn all phases of museum and collections management work. The Department exhibit hall displays an excellent collection of museum artifacts.
- The Department maintains a computer lab, as well as several computer stations in the Archaeology lab.
- Course related fieldwork in California and the Great Basin and archaeological laboratory opportunities are offered through internships at the Archaeological Research Center (ARC) and the Archaeological Curation Facility (ACF). Paid fieldwork and laboratory opportunities may also be available for qualified students through the ARC and ACF.
- Professional journals and the updated Human Relations Area File are housed in the University Library.

Career Possibilities

Anthropology equips students with the necessary knowledge to engage with the political, economic, cultural, and social complexities of the world. In addition to providing students analytical and critical thinking skills, anthropology exposes students to the intersection of culture, biology, and history on peoples' lived experiences. Majoring in Anthropology provides students a solid foundation for advanced studies in diverse fields such as anthropology, business, cultural resources management, law, journalism, medicine, communication, social work, urban studies, public policy, informatics, and any other profession that calls for the sustained engagement with cultural diversity, critical thinking, analytical abilities and people skills. Given the training they receive, anthropologists are increasing sought by the business world, government agencies and non-government organizations. Traditionally Anthropology majors have pursued careers in primary and secondary teaching; consumer market research; human resource development; local, state, and federal governmental agencies; non-governmental organizations (NGOs); archaeological field or laboratory technicians; forensic analysis, community development organizations; trade union organizations and allied fields. The globalized world economy has expanded this horizon to include career opportunities in communication, health care, entertainment, information technology, consumer product development, etc.

Contact Information

Raghuraman Trichur, Department Chair
Ana Gutierrez, Administrative Support Coordinator
Mendocino Hall 4010
(916) 278-6452
www.csus.edu/anth (http://www.csus.edu/anth/)

Faculty

BARATA, DATA

BISHOP, JOYCE

CASTANEDA, TERRI

DELACORTE, MICHAEL G.

FISHER, JACOB

FLAMENBAUM, RACHEL

HENS, SAMANTHA

MURPHY, LIAM

RASCHIG, MEGAN

SCARRY, CLARA

SINGH, NANDINI

STEVENS, NATHAN E.

SULLIVAN, ROGER

TRICHUR, RAGHURAMAN

WALKER, MICHAEL M.

ZEANAH, DAVID W.

ANTH 1. Introduction to Biological Anthropology. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring, Summer

Covers the concepts, methods of inquiry, and theory of biological evolution and their application to the human species. There is a specific focus on molecular, Mendelian and population genetics, mechanisms of evolution, primatology, paleoanthropology, biocultural adaptations, and human variation. The scientific method serves as the foundation to the course.

ANTH 1A. Biological Anthropology Laboratory. 1 Unit
Prerequisite(s): ANTH 1 (may be taken concurrently)
General Education Area/Graduation Requirement: Laboratory (B3), Life Forms (B2)
Term Typically Offered: Fall, Spring

Designed to familiarize the student with the materials and techniques of physical anthropology. Includes human and other primate osteology, anthropometric techniques, and allied methods in the gathering and analysis of physical anthropological data. Through working with the departmental collection of fossil casts and a wide variety of charts and models, the student also becomes familiar with the stages of human and primate evolution.

ANTH 2. Introduction to Cultural Anthropology. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to anthropological approaches in the study of people and cultures. Using ethnographic case studies, the course contributes to a critical understanding of continuity and diversity in peoples' lifestyles, social institutions, and cultural practices in different societies around the world. The course also examines the impact of political, economic, and social changes, such as colonization, decolonization, and globalization on people and cultures over the last century.

ANTH 2H. Introduction to Cultural Anthropology - Honors. 3 Units
Term Typically Offered: Fall only

Introduction to anthropological approaches in the study of people and cultures. Using ethnographic case studies, contributes to a critical understanding of the continuity and diversity in peoples' lifestyles, social institutions, and cultural practices in different societies around the world. Examines the impact of political, economic, and social changes, such as colonization, decolonization, globalization, etc., on people and cultures over the last century. Intended for students enrolled in the University's GE Honors Program.
Note: Students must be admitted to the GE Honors Program.

ANTH 3. Introduction to Archaeology. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduces students to the methods and theories used by archaeologists to find, recover, and interpret such remains in an effort to reconstruct and understand the lives of earlier peoples. The class uses archaeological case studies, films, and hands-on examples of tools and other artifacts produced by simple stone age hunters and more complex civilizations that lived in California and other parts of the world.

ANTH 4. Language, Culture, and Critical Thinking. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Introduction to the abstract and formal structures of language and cultural dimensions of human communication via major linguistic anthropological concepts, theoretical assumptions, and methodologies. Addresses the logical, formal relationship between underlying rules of natural languages while critically analyzing how speakers from different cultures use language to convey complex social and cultural information. Course illuminates how language is used to create and reinforce relationships of power (race, class, gender); develops ability to recognize linguistic fallacies; and instructs in basic critical thinking skills.

ANTH 13. Magic, Witchcraft and Religion. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Cross-cultural study of the forms and functions of supernatural beliefs and associated rituals in various societies of Africa, Asia, aboriginal Australia, Oceania, South America, native North America and elsewhere. Emphasis is on understanding beliefs and rituals within given social contexts, and using broad comparisons to derive insight into the general functions of beliefs and rituals in human life.

ANTH 16. Comparative Early Civilizations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examines the emergence and development of early civilizations. Studies state formation, urbanization, market system development, and other processes relevant to the evolution of early civilizations from the standpoints of cross-cultural comparison and modern anthropological theory. The goal is to identify cross-cultural regularities as well as critical differences that can explain the various evolutionary trajectories of these societies. The civilizations that will be contrasted include societies from Mesopotamia, Egypt, the Indus Valley, China, Mesoamerica, Andean South America, and other regions.

ANTH 21. Freshman Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Provides students with the opportunity to interact with fellow classmates and the seminar leader to build a community of academic support and personal support.

ANTH 101. Cultural Diversity. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer

Focuses on analyzing the historically conditioned political, economic and social factors that have contributed to cultural diversity in the U.S; a critical anthropological approach is developed to explore the intersection of race, class, gender, ethnicity and sexuality; the political economy of institutions and ideas, such as racism, classism, sexual stereotyping, family, religion, state, color-blindness, multiculturalism, etc.; and, discourses of cultural diversity in the U.S.

ANTH 102. The Nature of Culture. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring

An upper division general introduction to cultural anthropology. Divided into two major parts: a survey of theories, methods and concepts of cultural anthropology, and an introduction to applied cultural anthropology.

ANTH 103. Psychological Anthropology. 3 Units
Prerequisite(s): ANTH 2 or ANTH 102.
Term Typically Offered: Fall, Spring

Cross-cultural comparative approach to human cognition, child-training practices, personality development, deviant behavior, cultural psychiatry, and data gathering techniques.

ANTH 104. The History of Anthropology. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Anthropological theory in historical perspective.

ANTH 105. Anthropology of War. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Examination of the nature of war, primarily as it occurs in pre-industrial societies, and a survey of the kinds of explanations of this phenomenon current in anthropology. Emphasis is on understanding the complexity, variability, and cultural imbeddedness of war as it occurs around the world.

ANTH 106. Culture and Personality of the Chicano Child. 3 Units
Term Typically Offered: Fall, Spring

Study of child growth and development patterns universal to all children with focus on the pressures and effects of the Mexican and Anglo cultures on the development of the Chicano child.

ANTH 107. Anthropology of Hunters and Gatherers. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Survey of the rapidly disappearing life way which anthropologists call hunting and gathering, with economies based on the use of wild plant and animal resources. Using ethnographic examples from the Arctic, southern Africa, rainforests in South America, deserts of Australia, and western North America, explores variation in hunter-gatherer societies with respect to differences in environment, technology, social organization, and the historical effects of interaction with more complex cultural groups. Models that attempt to explain long-term changes in this life way are also explored.

ANTH 108. Economic Anthropology. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Examines the fundamentals of economic anthropology through a focus on production, exchange, and consumption in a range of historical and ethnographic contexts. Introduces different frameworks for theorizing the economy and explaining human behavior and decision-making. Addresses central questions and issues in cultural anthropology on the origins of value, wealth and social stratification, the meanings of work, gift exchange and reciprocity, property regimes, morality and debt, marketing and desire.

ANTH 109. Ecological and Evolutionary Approaches to Anthropology. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Survey of anthropological research regarding the relationships between human behavior, ecology, and evolution. Reviews historic development of research in this field, and contrasts approaches based in ecological and evolutionary theory. Reviews and evaluates of case studies. Topics include hunter-gatherer and hominid economy and social organization, foraging theory, work effort, population growth and regulation, origins of agriculture, warfare, ritual and resource conservation, and origins of complex society.

ANTH 110. Archaeological Method and Theory. 3 Units
Prerequisite(s): ANTH 3.
Term Typically Offered: Fall, Spring

Traces the development of archaeology from its inception in the eighteenth century up to the present time. Readings, lectures, and class assignments follow the evolution of archaeological method and theory in relation to changing ideas about the role of culture, environment, and technology within the broader discipline of anthropology.

ANTH 111. California Archaeology. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Pre-contact California encompassed some of the most extensive environmental and cultural diversity ever to exist on the planet, containing widely divergent biota, many distinct languages and cultures, and among the densest hunter-gatherer populations ever recorded. At least 11,000-12,000 years of human occupation have been marked by multiple migrations and major shifts in technological and social organization. Explores long-term trends in cultural development across the state, and examines models used to explain why semi-permanent settlements, intensive subsistence strategies, and complex social institutions arose in some times/places and not others.

ANTH 112. Great Basin Archaeology. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Explores the cultural and natural history of the Great Basin from the last glacial maximum into the historic era. Though largely arid, this region in fact manifests considerable environmental variability and has seen significant climatic alterations since the Pleistocene. Human occupation of the Great Basin witnessed major changes in demography, technology, subsistence practices, and sociopolitical organization over the last 10-12,000 years. The course looks to understand cultural and environmental variability across the region through examination of the long-term material record and consideration of anthropological and biological models.

ANTH 113. Prehistory of the Southwest. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Survey of the prehistory of the Arizona, New Mexico, Western Colorado, Utah, and adjacent regions of Nevada, Texas and northwestern Mexico. Major prehistoric cultures of the Southwest (Hohokam, Anasazi, Mogollon, Fremont) are covered in detail. Focus on major transitions in subsistence and social organization emphasizing current issues of archaeological research. Cultural influences from outside areas are also considered.

ANTH 114. North American Prehistory. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Familiarizes students with the archaeological record of North America, and provides an analytical framework through which it may be understood in anthropologically meaningful terms. This will be accomplished by considering some of the explanations that have been proposed to account for the prehistory of the continent, and by examining the archaeological remains and cultural sequences found in various areas, including the North and Southeast, Great Plains, Pacific Northwest, and arctic/subarctic regions.

ANTH 115. Origins of Agriculture. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Surveys and evaluates worldwide anthropological perspectives of the origins of agriculture and the rise of complex society. Traces the development of major archaeological theories for the inception and spread of agriculture and civilization, acquainting students with groundbreaking archaeological research associated with each theoretical perspective. Current archaeological research is reviewed in-depth, providing a context for critique of the theories. Examples from North America, Latin America, the Middle East, India and China are compared and contrasted using movies, readings, and lectures.

ANTH 116. Old World Prehistory: Paleolithic Archaeology. 3 Units
Term Typically Offered: Fall, Spring

Old World Paleolithic archaeology from the emergence of hominids until the development of agriculture and civilization. Cultural developments in Africa, Asia, Europe and Australia are examined with the aim of highlighting similarities and differences in the process of technological, demographic, and sociopolitical change within each region. Explanatory models are offered to account for cultural evolution in various parts of the Old World are explored and assessed.

ANTH 117. World Prehistory and the Evolution of Modern Humanity. 3 Units
Prerequisite(s): Any lower-division Area B2 GE course
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Covers human prehistory, from the emergence of culture through the domestication of plants and animals, and the origins of complex societies. Included are major cultural developments on every continent, emphasizing similarities and differences in the nature and timing of key technological, cultural, and sociological changes. Methodologies for learning about the past, major archaeological discoveries, important personalities, and contributions to the modern world are discussed in the context of understanding the strengths of a scientific approach to understanding the human past.

ANTH 118. The Anthropocene: Human Impacts on Ancient Environments. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Designed to challenge students to critically evaluate past human relationships with their environment at the local, regional, and global scale over the past 10,000 years. The diachronic perspective of the course provides students with a broader understanding of contemporary challenges, such as anthropogenic climate change and declining biodiversity, that is rooted in our prehistoric past.

ANTH 119. Analysis of Faunal Remains. 4 Units
Prerequisite(s): ANTH 3 and Anthropology (Archaeological and Biological Anthropology) concentration.
Seminar on techniques and methods employed in analysis of faunal remains from archaeological sites, coupled with a laboratory providing hands-on identification of mammalian remains from these settings. Large focus on quantitative methods used in zooarchaeology to infer behavioral patterns of the human past and their paleoenvironments.

ANTH 120. Introductory Statistics for Anthropologists. 3 Units
Prerequisite(s): Anthropology (Archaeological and Biological Anthropology) concentration.
Term Typically Offered: Fall, Spring

Covers the conceptual framework involved in quantitative methods of data analysis commonly employed in anthropology. The emphasis is primarily on understanding concepts and secondarily on learning techniques of data analysis. Topics include data description and distributions, estimation procedures, hypothesis testing, and model fitting. Illustration of concepts in lecture are made with data from archaeology, physical anthropology, and social/cultural anthropology.

ANTH 121. Archaeology of Mexico. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Provides an upper division introduction to the archeology of Mesoamerica for students not majoring in anthropology. Discusses the evolution of the ancient civilizations of Mesoamerica, including Mexico, Guatemala, Belize, Honduras, and El Salvador. Examines the development of societies from the earliest inhabitants to the growth of empires. Includes coverage of the Olmecs, Monte Alban, Teotihuacan, the Classic Maya, the Toltecs, and the Aztecs.
Note: Cannot be used to meet the requirements of the Anthropology major; interested majors should take ANTH 122.

ANTH 122. The Evolution of Early Mesoamerican States. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Traces the emergence of pre-hispanic state societies in Mesoamerica from the growth of the earliest settlements to the collapse of the Aztec empire. Analyzes how complex societies evolved in Mesoamerica, focusing on such evidence as household and village social organization, craft specialization and interregional exchange, religion and ideology, and the logistics of state management and imperial expansion.

ANTH 123. Ancient Technology. 3 Units
Term Typically Offered: Fall, Spring

Examines the importance of various preindustrial technologies, and the techniques and methods involved in their manufacture and use. Topics include stone, bone, wood, and hide working, ceramics, weaving, metallurgy, and other crafts essential to human survival in ancient and contemporary societies around the world.

ANTH 124. Environmental Archaeology. 3 Units
Prerequisite(s): ANTH 3 and Anthropology (Archaeological and Biological Anthropology) concentration.
Term Typically Offered: Fall, Spring

All human societies depend on their natural surroundings, and so the reconstruction of prehistoric environments is an essential part of archaeological interpretation. Three interrelated aspects of environmental archaeology are considered: (1) general approaches to paleoenvironmental reconstruction, employing various biological and geological indicators; (2) the analysis of human plant and animal food remains; and (3) the geological and other processes that are responsible for the formation of archaeological deposits.

ANTH 125. Historical Archaeology. 3 Units
Term Typically Offered: Fall, Spring

Written history only records a small portion of human activities that occurred in the recent past. Explores the numerous methods of investigation, analysis and interpretation that are available to aid the historical archaeologist in discovering missing information and in some cases correcting erroneous statements, assumptions and interpretations about the past.

ANTH 126. Techniques of Archaeological Analysis. 3 Units
Prerequisite(s): ANTH 3 and Anthropology (Archaeological and Biological Anthropology) concentration.
Term Typically Offered: Fall, Spring

Introduces students to various approaches to archaeological analysis, focusing on how different classes of data are collected, classified, and interpreted to resolve research issues. Includes such topics as the handling, treatment, and analysis of flaked and ground stone tools, plant and animal food remains, and other types of archaeological materials. Lecture one hour, laboratory six hours.
Note: May be repeated once for credit.

ANTH 127. Cultural Resource Management in Theory and Practice. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Takes a wide-ranging look at how cultural resources are managed and preserved in California, the greater U.S., and other parts of the world. More than just a review of applicable laws and regulations, it is designed to offer a history of historic preservation, examine its role in our society, and explore the prospects for its continued presence. Practical aspects of Cultural Resource Management (CRM) are reviewed with respect to designing, budgeting, and performing archaeological surveys, site evaluation studies, and data recovery or mitigation programs.

ANTH 128. Indians of California. 3 Units
Term Typically Offered: Fall, Spring

Provides a survey of the traditional cultures of California Native American groups as they existed immediately after Western contact. Exploration of the ecological linguistic, economic, social, political, and religious diversity of California Native American groups provides a background for analysis of current anthropological theories of hunter-gatherer adaptations, subsistence intensification, political economy, cultural complexity, and California prehistory.

ANTH 130. Social Justice in Interdisciplinary Perspective. 3 Units
Prerequisite(s): Sophomore standing or instructor permission.
Term Typically Offered: Fall, Spring

Examines the nature and forms of social justice and injustice. Addresses key philosophical and theoretical models and debates over the meaning of social justice, using historical and contemporary examples to highlight important concepts and controversies. Faculty from different departments within SSIS, and occasionally from other colleges, will address how their discipline understands and analyzes issues of social justice. Students will be encouraged to critically assess the assumptions of various perspectives on social justice, and to address the relationship of academe and social activism in achieving social justice.
Cross listed as ID 124, ENVS 124, ETHN 124, FACS 124 and SOC 124. Only one may be counted for credit.

ANTH 131. Europe in the Ethnographic Imagination. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

More than a place or 'continent,' Europe is a social and ideological construction employed to unite diverse linguistic and cultural communities. Focuses on major themes in contemporary Europeanist anthropology, including transformations within and between local communities and regions (especially with regards to Northern Ireland, the former Society bloc, and Yugoslav federation), immigration, neo-nationalist extremism, the changing character of religious institutions, and the European Union as a framework for organizing identity and society.

ANTH 134. Japanese Culture and Society. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Culture of the Japanese: traditional and modern, rural and urban, cultural and social institutions; village and urban organization; and family structure. Aspects of social change in contemporary rural and urban Japan.

ANTH 135. Indians of North America. 3 Units
Term Typically Offered: Fall, Spring

Provides a survey of traditional Native American societies and culture areas north of Mexico. Readings, lectures, and discussions emphasize primary ethnographic and historic data that provide the richest accounts of Amerindian cultures at the time of European contact and shortly thereafter.

ANTH 138. Peopling of North America. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Introduction to the earliest evidence of human occupation of North America. Covered topics include the origins of the indigenous populations, the timing of the initial colonization, the number of migration events, paleoenvironment reconstruction, and causes for megafaunal extinctions. A variety of evidence will be discussed in detail, including chronology, paleoenvironmental data, the material culture, modern and ancient genetics, and linguistic prehistory. Political and social dimensions of conducting research on origins of Native Americans are also reviewed.

ANTH 140. Social Anthropology. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Cross-cultural comparisons of the structures and functions of non-literate and complex societies; the diversity of social and territorial units, their analysis and classification; and the study of social organization and control and social change in relation to kinship, marriage and family, lineage and clan, law, politics, economics and religion in diverse societies.

ANTH 141. Culture Theory. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Exploration of the concepts, dimensions and dynamics of culture theory, viewing culture as an adaptive, comparative, cognitive, structural and symbolic system.

ANTH 142. Political Anthropology. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Explores political anthropology as a specialized field of anthropological inquiry. Analyzes the articulation of power, authority, and legitimacy in non-state and state based societies. Contributes to an understanding of the transforming powers of modernity and resistance to it and develops a critical appreciation of how age, status, class, ethnicity, race, gender and religious ideologies shape political order within various societies around the world.

ANTH 143. Culture and Society in Mexico. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to the cultural and social institutions of the Mexican people. The changing patterns of family, economic, political, religious, and educational systems in Mexico.

ANTH 144. Contemporary American Culture in Anthropological Perspective. 3 Units
Prerequisite(s): ANTH 146
Term Typically Offered: Fall, Spring

Anthropological analysis of contemporary American culture viewed from the perspective of both internal and external observers, with emphasis on such subjects as cultural myths and social realities, values, ideology and world view, family and cultural transmission, social institutions and structures, religious ceremonies and magical rituals, and other customs and practices that establish American culture as one of the more bizarre and exotic in the world ethnographic literature.

ANTH 145. Peoples and Cultures of Latin America. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Exploration of diversity of peoples and cultures in Latin America and the common experiences such as colonialism, ethnicity, and economy that shape their lives. Aspects of culture examined include: race and ethnicity, colonialism and its implications, the state and political institutions, religious systems, kinship and social organization, gender, economic processes, and issues pertaining to environment, urbanization, globalization, nationalism, and transnationalism.

ANTH 146. Ethnographic Analysis. 3 Units
Prerequisite(s): ANTH 2.
Term Typically Offered: Fall, Spring

Introduces students to current techniques, theories, and debates in ethnographic research and analysis through the use of ethnographies and related works. Critically examines the production of ethnographic knowledge in socio-cultural anthropology from historical and contemporary perspectives.

ANTH 147. Peoples of Southeast Asia. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Survey of the native peoples of Southeast Asia (Laos, Vietnam, Thailand, Philippines, Malaysia, Indonesia, Burma and Singapore). Emphasis is on examining the forms of social and cultural pluralism in contemporary Southeast Asian societies.

ANTH 148. Anthropology of Chinese Societies. 3 Units
Term Typically Offered: Fall, Spring

Exploration of the cultures of three Chinese societies (Taiwan, Hong Kong, and the People's Republic of China) in each of their unique historical contexts. A comparison and contrast of how these societies, though sharing a common cultural heritage, have had different paths of development in recent times. Aspects of culture examined include: the state and political institutions; religious systems; kinship and social organization; economic processes; and issues of regional integration, nationalism and transnationalism.

ANTH 149. Cultures of South Asia. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Exploration of cultural practices in different South Asian societies. Analyzes the impact of colonialism, post-colonialism and discourses of modernity on South Asian societies. Examines the process of state formation, nation-building, communal conflict, economic transformations and the politics of caste, gender and class in contemporary South Asia.

ANTH 150. Human Osteology. 4 Units
Prerequisite(s): ANTH 1 and ANTH 1A, or BIO 22; and Anthropology (Archaeological and Biological Anthropology) concentration.
Term Typically Offered: Fall only

Provides students a hands-on, in-depth study of human osteology. Learn growth and development of the skeletal tissues and identification of the individual skeletal elements, and practice basic measurements, sexing and aging of skeletal material. A prerequisite for advanced techniques in forensic anthropology. Students will work with the department's osteological materials.

ANTH 151. Human Paleontology. 3 Units
Prerequisite(s): ANTH 1 and ANTH 1A.
Term Typically Offered: Fall, Spring

Survey of the field of human evolution from primate beginnings to modern humans. Emphasizes the interpretation of the fossil evidence and the major trends in hominid evolution, including the origins and relationships of the extinct forms of humans.

ANTH 152. Comparative Primate Morphology. 3 Units
Prerequisite(s): ANTH 1 & ANTH 1A
Term Typically Offered: Fall, Spring

Study of skeletal and soft-anatomical components of living non-human apes in the context of evolution and development. Covers evolutionary theory, embryology, growth and development, taxonomy, systematics, and basic functional morphology of the skeletal system in primates. Three-hour seminar, with some lecture and hands-on experience with skeletons and casts.
Note: BIO 1, BIO 2 or BIO 7 recommended, but not required.

ANTH 153. Evolutionary Medicine. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the application of evolutionary theory to human health and disease. Evolutionary medicine is a rapidly growing interdisciplinary specialization utilizing insights from evolutionary theory and human evolutionary ecology to inform understandings of human health, development and disease; and also to critique existing biomedical theory about the human condition. Topics include reproduction, child birth, lactation, growth and development, infectious diseases, parasites, diet and nutrition, mental and behavioral disorders, and substance use and addiction.
Note: ANTH 1, BIO 10, BIO 11, or PSYC 2 recommended.

ANTH 154. Primate Behavior. 3 Units
Term Typically Offered: Fall, Spring

Survey of the genetic, ecological and social influences on non-human primate behavior from an evolutionary perspective; covers the major non-human primate groups, including their taxonomy, major adaptations, and their present geographic distribution. The history and development of primate behavior also will be considered with an emphasis on various models for interpreting behavior.

ANTH 155. Fundamentals of Biological Anthropology. 3 Units
Prerequisite(s): ANTH 1 and ANTH 1A.
Term Typically Offered: Fall, Spring

Survey of the development of method and theory in physical anthropology from its origins in zoology, anatomy, and medicine, to the various approaches currently used in the study of human biology and evolution. Concepts considered include the scientific method, modern genetics, evolutionary theory, the race concept and other approaches to explaining human variation, taxonomy and systematics, and macro-evolutionary models. Critical reading and analytical skills will be emphasized.

ANTH 156. Evolution of Human Behavior. 3 Units
Prerequisite(s): ANTH 1, BIO 10, or PSYC 2 recommended.
Term Typically Offered: Fall, Spring

Introduction to the application of evolutionary theory to human behavior and psychology. Reviews and contrasts contemporary perspectives of human behavioral evolution with emphasis on insights from the emerging field of evolutionary psychology. Topics include human behavior and cognition as adaptations, 'selfish genes,' game theory, evolution of social behavior, evolution of altruism, human mating strategies, parenting, behavioral disorders, evolution of the life cycle, human behavioral ecology, Darwinian medicine, and evolutionary psychology.

ANTH 157. Human Variation. 3 Units
Prerequisite(s): ANTH 1, BIO 10, or instructor permission.
Term Typically Offered: Fall, Spring

Survey of the basic principles of human genetics with emphasis on the mechanisms that shape human evolution and the development of human races. Analyzes the laws of heredity as exhibited in modern human populations and human adaptability to climatic extremes. Historical development of concepts. Discussion of most current research.

ANTH 158. Human Skeletal Analysis. 4 Units
Prerequisite(s): ANTH 150. Paired Course
Term Typically Offered: Spring only

Provides advanced techniques in osteology and forensic anthropology essential for many practicing physical anthropologists. Discussion and survey of the primary literature, followed by intensive hands-on experience with human skeletal remains. Included: techniques for determining age, sex and ethnicity; measurement; pathology; and trauma. The role of the forensic anthropologist and archaeologist, ethical considerations, and human rights issues are also covered. Two-hour seminar, and a six-hour lab involving substantial hands-on experience with human skeletal remains.

ANTH 159. Forensic Anthropology. 3 Units
Prerequisite(s): Any lower-division GE Area B2 course.
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Overview of forensic anthropology - an applied field of biological anthropology that works with law enforcement, medical examiners, and human rights agencies. Forensic anthropologists answer questions of medico-legal significance by applying techniques designed for analysis of human skeletal remains. Includes determining time since death, the biological profile, trauma analysis and the role of the forensic anthropologist in human rights investigations.

ANTH 160. Linguistic Anthropology. 3 Units
Prerequisite(s): ANTH 4 or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to language and linguistics for anthropologists with emphasis on the role of linguistic anthropology in the development of theory and method within the discipline; non-human communication systems, language acquisition, and culture theory; the fundamentals of descriptive and structural linguistics; types of human languages; the diversity and distribution of languages from prehistoric to modern times; fundamentals of historical linguistics and proto-cultural studies.

ANTH 161. African Cultures and Societies. 3 Units
Prerequisite(s): ANTH 146 or instructor approval
Term Typically Offered: Fall, Spring

Explores the cultural richness and regional variation of African societies. Engages students with central issues and debates pertaining to Africa in relation to the deepening global interconnectedness of the human socio-cultural worlds. Topical discussions include: colonial legacy, the postcolonial state and traditional authority; ethnic identity and cultural diversity; family, kinship and the African youth; masculinity, sexuality and women; Islam, Christianity and indigenous spirituality; health, poverty and development; migration and globalization; ecotourism and African cultures.

ANTH 162. Language and Culture. 3 Units
Prerequisite(s): ANTH 4 or instructor permission.
Term Typically Offered: Fall, Spring

Relationship between language and culture; historical relationships between languages; language families and major cultural traditions; cross-cultural studies of how the language influences perception and the organization of reality; the ways in which language is embedded in social life and practices, and the ways in which various cultural patterns and values are reflected in language.

ANTH 163. Urban Anthropology. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Overview of both anthropological method and theory applied to research of urban environments and a survey of significant anthropological studies that have been conducted in these settings. Examines such topics as the urbanization process, the culture of cities, urban sub-cultures, social problems in urban areas, social networks and adaptive kinship strategies in cities, and the concentration and exercise of power, wealth and influence in urban centers.

ANTH 164. Culture Change. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Anthropological study of mechanisms and process of social and culture change; basic theories of ecological adaptation and cultural evolution; action chains and cultural patterns; technological innovation, migration, acculturation, cultural dissonance, conflict, and cultural revitalization; analysis of case studies emphasizing contemporary conditions and problems; rapid technological innovation, population control, immigration and acculturation, social diversification, ethnic conflict.

ANTH 165. Applied Anthropology. 3 Units
Prerequisite(s): ANTH 105 or ANTH 108 or ANTH 140 or ANTH 141 or ANTH 142 or ANTH 167 or ANTH 168 or ANTH 176; and Anthropology (Culture, Language, and Society) concentration.
Term Typically Offered: Fall, Spring

Provides tools for exploring the application of an anthropological paradigm to various aspects of culture change and conflict. Content is organized into a series of critical topical areas such as modernization, economic development, human services, and urbanization.

ANTH 166. Rise of Religious Cults. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Examination of cult movements, involving comparisons of the ideals, objectives and symbolic processes common to ecstatic religious movements throughout the world -- from Melanesian cargo cults to the Peoples' Temple. Anthropological perspectives are used to examine religious cults as conscious attempts to perpetuate traditional values and social goals or to radically change the status quo; millenarian movements, crisis cults, nature communes, exotic religious importations, and cult characteristics of modern secular movements.

ANTH 167. Religion and Culture. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Examines ethnographic perspectives on the character and intersections of religion, ritual, and culture. Surveys the thought of 'classical' social theorists (e.g., Durkheim, Tylor, Weber, and Evans-Pritchard), and concentrates on central topics in the anthropology of religion. Including the political nature of embodiment and trance, religion and nationalism, the significance of language and performance, the gendered character of many religious phenomena, and science and religion as competing epistemologies.

ANTH 168. Folklore in Anthropological Perspective. 3 Units
Prerequisite(s): ANTH 160 or ANTH 162 or instructor permission.
Term Typically Offered: Fall, Spring

Anthropological contributions to the study of folklore; survey of oral literature and other folklore forms, such as myth, folktale, legend, proverb, riddle, and games, in their social contexts; folklore as 'autobiographical ethnography,' folklore in everyday life, survey and comparison of folklore traditions in several culture areas.

ANTH 169. Research Methods in Linguistic Anthropology. 3 Units
Prerequisite(s): ANTH 160 or ANTH 162, and Anthropology (Culture, Language, and Society) concentration.
Term Typically Offered: Fall, Spring

Consideration of language in its social context: language and power, language and gender, interethnic communication, language and race, pidgins and creoles, multilingualism, standardization, language ideology. Instruction in ethnographic and linguistic methods of data collection and analysis; identification of socially significant linguistic variables. Contributions of the study of contextualized speech to linguistic theory.

ANTH 170. The Religious Landscape of the Sacramento Valley. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Introduction to the field study of religious communities. Addresses the nature of religious pluralism in the U.S. today. The practice and belief systems of at least five different religious communities will be studied each semester. Students are required to do an in-depth term project based on research in one or more religious communities.
Cross Listed: HRS 170; only one may be counted for credit.

ANTH 171. Bioarchaeology: Analyzing Human Remains from Archaeology Sites. 3 Units
Prerequisite(s): ANTH 1 and ANTH 1A or instructor permission
Term Typically Offered: Fall, Spring

An exploration of research conducted on human remains from archaeological sites, including historical and ethical perspectives. Examines the effects of funerary context and preservation on skeletal remains. Demonstrates relevance of human skeletal analysis to understanding demography, causes of human skeletal variation, dietary patterns, and relevant themes in paleopathological research. Special emphasis placed on infectious disease, growth and development, activity patterns, injury and trauma, craniofacial adaptations, and methods for identifying genetic relationships in human skeletal remains.

ANTH 172. Anthropologies of Music. 3 Units
Prerequisite(s): ANTH 146 or Instructor Permission.
Term Typically Offered: Fall, Spring

Introduces students to current anthropological research on social groups and cultural practices that orient around and draw inspiration from music, wherever and however it is conceived. Course focus is not on music theory or structure; rather, it critically examines anthropological and ethnographic works that focus on the relations among such social domains and features as visual and aural aesthetics, political belief, gender, ritual, religion, race, and ethnicity.

ANTH 173. Anthropology of Contemporary Asia. 3 Units
Prerequisite(s): ANTH 146 or instructor permission
Term Typically Offered: Fall, Spring

This course examines contemporary Asia as an articulation of intersecting historical, cultural, political and economic processes. The course will focus on postcolonial developments and critically explore the manner in which process of globalization and neoliberal strategies embed themselves within, and the responses they elicit from societies across Asia.

ANTH 174. Anthropology of Food. 3 Units
Prerequisite(s): ANTH 146 or instructor permission
Term Typically Offered: Fall, Spring

Examines food and eating from an anthropological perspective. Demonstrates how food communicates social messages about individual or group identity, creates social boundaries or forges belonging, and can reflect one's politics, values, and ethics. Through ethnographic examples and attention to global processes, this course explores food production, circulation, and consumption.

ANTH 175. Anthropology of Globalization. 3 Units
Prerequisite(s): ANTH 146 or instructor permission
Term Typically Offered: Fall, Spring

The course introduces students to major themes that inform anthropological understanding of globalization. This course will explore theoretical perspectives, topics, and methods of analysis developed in anthropology to capture the effects of intermingling global/local cultural forces and the diverse relations of power that structure them and in which they are embedded.

ANTH 176. Museums, Culture, and Society. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Provides an introduction to museum anthropology. Surveys the emergence of modern anthropology from its origins in 17th century natural history to its late 19th century institutionalization in museums. Explores the role of collectors, curators and financial patrons in the development of museums and social theory. Examines the contemporary poetics and politics of museums and cultural interpretation, including cultural property rights, cultural self-representation, collaborative exhibit development, and the ethnography of museums.

ANTH 177. Museum Methods. 3 Units
Prerequisite(s): ANTH 176 and Anthropology (Culture, Language, and Society) concentration.
Term Typically Offered: Fall, Spring

Combined lecture and laboratory course designed to teach basic museum methods. Surveys contemporary issues and practices in museum governance, management, interpretation, and evaluation. Provides hands-on collections and exhibit experience, including participation in the design, fabrication and installation of an exhibition.

ANTH 178. Internship. 3 - 4 Units
Term Typically Offered: Fall, Spring

Practical experience in an approved professional environment. Student intern will work directly with professionals in public and private agencies where opportunities exist for anthropological work. Supervision and evaluation are provided by a faculty internship director and the on-site supervisor. Placements require from 15-20 hours per week.
Note: May be repeated for credit.

Credit/No Credit

ANTH 179. Observing Primate Behavior. 3 Units
Prerequisite(s): ANTH 1 and ANTH 1A and Anthropology (Archaeological and Biological Anthropology) concentration or instructor permission.
Field trip
Term Typically Offered: Spring only – odd years

Introduces research design and methods employed in the study of non-human primate behavior. Topics covered include developing ethograms, behavioral and ecological sampling techniques, and basic methods for data analysis, including simple descriptive and analytical statistics. Culminates in a research report to address a specific research question through behavioral observations conducted at the Sacramento Zoo.

ANTH 181. Anthropology of Human Rights. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Examines multiple dimensions of human rights from an anthropological perspective. Explores the history and development of human rights ideas and legal conventions, and how these ideas and conventions are appropriated, adapted, contested or rejected in different cultural and political contexts. Using ethnographic case studies from around the world, addresses how the human rights discourse mediates the relationship between specific groups of people, their national states and international conventions and institutions.

ANTH 183. Women Cross-Culturally. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Position of women in various societies, preliterate through contemporary industrial; the evolution of women's roles and rights cross-culturally.

ANTH 186. Culture and Poverty. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Analyzes poverty in American society: the cross-cultural context, social inequality in the U.S., theoretical perspectives and their influence on policy, present trends and implications for the future.

ANTH 188. Anthropology of the Body. 3 Units
Term Typically Offered: Fall, Spring

Study of the diverse ways that humans explain and attempt to alter the human body. Focus is on the meanings and implications of our own bodily experiences through objective comparison of the experiences, explanations and techniques found in our society with those in others.

ANTH 189. Critical Medical Anthropology. 3 Units
Prerequisite(s): ANTH 146
Term Typically Offered: Fall, Spring

Critical Medical Anthropology examines the interplay of cultural, environmental, and biological processes in diverse experiences of health and illness. Students will develop an understanding of the history of Medical Anthropology, its key themes and theoretical perspectives, and its present concerns. We will consider biomedicine as a cultural sphere, track the persistence of `alternative¿ healing practices and the impact of social determinants on health, and analyze the formation of new demands on states and subjects in the name of suffering.

ANTH 190. Advanced Topics in Linguistic Anthropology. 3 Units
Prerequisite(s): ANTH 160 or ANTH 162 or instructor permission.
Term Typically Offered: Fall, Spring

Seminar examining contemporary developments in theories and methods of linguistic anthropology.
Note: May be repeated for credit providing the topic and instructor are not the same.

ANTH 191. Anthropology Practicum. 3 Units
Prerequisite(s): ANTH 165 or ANTH 169 or ANTH 177 or ANTH 192B; and senior level
Term Typically Offered: Fall, Spring

Students work 3-6 hours per week off campus in one of several research institutions under the supervision of institutional personnel. Students are required to become familiar with the scholarly literature relevant to their placement, to participate in on-campus meetings, and to write a research paper integrating the research and fieldwork aspects of the practicum. Permission of instructor and ANTH coordinator required prior to registration. Open to seniors only.

ANTH 192A. Laboratory Work in Archaeology. 1 Unit
Prerequisite(s): ANTH 3
Corequisite(s): ANTH 195A; may be waived with instructor permission.
Term Typically Offered: Fall, Spring

Introduces methods used in the basic laboratory preservation, cataloging, and initial analysis of various materials recovered through ANTH 195A survey and excavation projects; always offered in conjunction with ANTH 195A.
Note: May be repeated for credit.

ANTH 192B. Laboratory in Ethnographic Techniques. 1 Unit
Prerequisite(s): ANTH 105 or ANTH 108 or ANTH 140 or ANTH 141 or ANTH 142 or ANTH 167 or ANTH 168 or ANTH 176, and Anthropology (Culture, Language, and Society) concentration.
Corequisite(s): ANTH 195B.
Term Typically Offered: Fall, Spring

Design and discussion of research strategies, primary ethnographic techniques, the development of interviewing skills, and practice in the use of various recording technologies.

ANTH 195A. Fieldwork in Archaeology. 2 Units
Prerequisite(s): ANTH 3
Corequisite(s): ANTH 192B
Term Typically Offered: Fall, Spring

Introduction to archaeological field methods, covering practical aspects of how to identify and investigate isolated artifact finds, particular sites and features, and entire landscapes. Covering survey and excavation techniques, basic approaches to sampling, mapping and navigation, stratigraphic excavation, artifact and feature recording, and recovery methods.
Note: May be repeated for credit.

ANTH 195B. Fieldwork in Ethnology. 2 Units
Prerequisite(s): ANTH 105 or ANTH 108 or ANTH 140 or ANTH 141 or ANTH 142 or ANTH 167 or ANTH 168 or ANTH 176, and Anthropology (Culture, Language, and Society) concentration.
Corequisite(s): ANTH 192B
Term Typically Offered: Fall, Spring

Directed team fieldwork in ethnology.

ANTH 195C. Fieldwork in Physical Anthropology. 2 - 3 Units
Term Typically Offered: Fall, Spring

Individual or group fieldwork in various areas of physical anthropology, under the supervision of individual faculty members; may involve related supervised laboratory work.

ANTH 196S. Senior Seminar in Anthropology. 3 Units
Prerequisite(s): Anthropology majors with senior standing
Term Typically Offered: Fall, Spring

Anthropology approaches knowledge about the human condition from multidisciplinary perspectives. This senior seminar synthesizes fundamental themes from among the sub-disciplines. Students will engage with concepts and issues from different anthropological perspectives, and then work to identify common historical, methodological and theoretical anthropological themes. On completion of the course, students will have learned to seek and interpret anthropological knowledge in a holistic fashion.

ANTH 196T. Zooarchaeology. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

An examination of past and recent research conducted on animal remains from archaeological sites. Discussion and survey of the primary literature in evaluating the role animal exploitation plays in human evolution and among small scale foraging, pastoralist, and complex societies. Emphasis on vertebrate taphonomy, reconstruction of diet from faunal remains, and ecological and evolutionary theory to understand human-animal relationships through time.

ANTH 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty member under whom the individual work is to be conducted and the Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work. May be repeated for credit.

Credit/No Credit

ANTH 200. General Methods in Anthropology. 3 Units
Term Typically Offered: Fall, Spring

Explores uses of scientific methodology in anthropology through the examination of specific case studies in the various specialties. Focus is on the relationship among techniques, methods, and methodology; hypothesis and theory; units of analysis and comparison; deductive and inductive reasoning; inferential processes; various types of comparison (casual, controlled, hologeistic); limitations of, and objections to, "the comparative method.'

ANTH 201. Anthropological Theory. 3 Units
Prerequisite(s): Graduate status in anthropology or instructor permission.
Term Typically Offered: Fall, Spring

Intensive reading and seminar discussion in topics on anthropological theory and research.
Note: May be repeated for credit provided topic is not repeated.

ANTH 202. Biological Anthropology Seminar. 3 Units
Term Typically Offered: Fall, Spring

Survey of contemporary issues in physical anthropology.

ANTH 203. Archaeology. 3 Units
Term Typically Offered: Fall, Spring

Explores the intellectual development of archaeological method and theory; examines the history of archaeological thought from its advent to the present day, looking in detail at pre-scientific, culture-historical, processual, and post-processual approaches to the discipline; emphasis is placed on the role of archaeology as a branch of anthropology and as a historical, humanistic, and/or scientific enterprise.

ANTH 204. Current Problems in Archaeological Method and Theory. 3 Units
Term Typically Offered: Fall, Spring

Explores recent methodological and theoretical developments within archaeology; focus is on contemporary debates within the discipline; topical coverage varies; examines conceptual and practical concerns, highlighting possibilities and limitations of new approaches to archaeological problems.
Note: May be repeated for credit provided topic and instructor are not repeated.

ANTH 205. Ethnology. 3 Units
Term Typically Offered: Fall, Spring

Seminar is designed for students to develop a working knowledge of anthropological approaches to a number of major issues in ethnology. The focus is on the analysis of case studies.
Note: May be repeated once for credit with different instructor.

ANTH 207. Language and Culture. 3 Units
Term Typically Offered: Fall, Spring

Critical examination of contemporary studies in the relationship between language and culture; nonhuman primate communication and the origin of speech; non-verbal communication; historical linguistics; comparative semiology; ethnosemantics; applications of linguistic models of analysis in the study of culture.
Note: May be repeated for credit given that the instructor changes.

ANTH 210. Research Design in Anthropology Seminar. 3 Units
Prerequisite(s): instructor permission,
Term Typically Offered: Fall, Spring

Emphasizes research design in anthropology with a focus on proposal writing in the discipline. Centers on the development of the thesis research proposal while gaining insight on the process of acquiring competitive funding from government agencies and private foundations. Covers the fundamentals of identifying a research question, developing hypotheses, comprehensive literature reviews, intellectual merit and broader impacts of research, and budget justification.

ANTH 222. Bioarchaeology Seminar. 3 Units
Prerequisite(s): Graduate status in anthropology.
Term Typically Offered: Fall, Spring

Provides an intensive, detailed discussion of method and theory in the skeletal biology of past human populations. Topics discussed include: demography, dietary analysis, mortuary dimensions, health and disease, biological distance and DNA analysis. Focuses on the interaction of biology and behavior, particularly the influence of culture and the environment on the skeletal and dental tissues.

ANTH 223. Areal Archaeology. 3 Units
Term Typically Offered: Fall, Spring

Provides an intensive examination of archaeological problems within a selected regional or topical area. Through general readings and case studies, students will critically assess how current perspectives regarding relevant issues have evolved and determine how contemporary viewpoints might be improved or expanded.
Note: May be repeated for credit provided topic and instructor are not repeated.

ANTH 226. Advanced Techniques of Archaeological Analysis. 3 Units
Prerequisite(s): ANTH 126 or instructor permission.
Term Typically Offered: Fall, Spring

Examines more refined approaches to archaeological analysis, focusing on how various classes of data are collected, classified, and interpreted to resolve directed research problems. Emphasis is on such topics as sampling procedures and statistical assessment of data rather than descriptive analysis and interpretation. Lecture one hour; laboratory six hours.

ANTH 251. Human Paleontology. 3 Units
Survey of the field of human evolution from primate beginnings to modern humans. Emphasizes the interpretation of the fossil evidence and the major trends in hominid evolution, including the origins and the relationships of the extinct forms of humans.

ANTH 258. Human Skeletal Analysis. 4 Units
Prerequisite(s): ANTH 150 or instructor permission. Paired course
Term Typically Offered: Spring only

Provides advanced techniques in osteology and forensic anthropology essential for many practicing physical anthropologists. Discussion and survey of the primary literature, followed by intensive hands-on experience with human skeletal remains. Included: techniques for determining age, sex and ancestry; measurement; pathology; and trauma. The role of the forensic anthropologist and archaeologist, ethical considerations, and human rights issues are also covered. Course format is a two-hour seminar, and a six-hourlab involving substantial hands-on experience with human skeletal remains.

ANTH 274. Environmental Anthropology. 3 Units
Term Typically Offered: Fall, Spring

Examines the mutual constitution of nature-culture, society-environment in diverse ethnographic settings. Demonstrates that ideas about nature and material engagements with it are shaped by the dynamics of social, political, and economic relations in historical contexts. Surveys a range of environmental issues and the cultural politics of environmental struggles through different conceptual, theoretical, analytical approaches in cultural anthropology.

ANTH 276. Museum Anthropology. 3 Units
Prerequisite(s): Graduate status in Anthropology or instructor permission.
Term Typically Offered: Fall, Spring

Surveys the practical, theoretical, and historical dimensions of museum anthropology and material culture studies, with particular emphasis on the U.S. and California. Situates contemporary issues related to the collection, exhibition, and repatriation of ethnographic and archaeological materials within the sociopolitical context of the globally based indigenous rights movement.
Note: Recommended for graduate students who plan to intern in the Anthropology Museum.

ANTH 278. Internship. 3 - 4 Units
Term Typically Offered: Fall, Spring

Practical graduate level experience in an approved professional environment. Student intern will work directly with professionals in public and private agencies where opportunities exist for anthropological work. Supervision and evaluation are provided by a faculty internship director and the on-site supervisor. Placements require from 15-20 hours per week.
Note: May be repeated for credit given that topic and instructor changes.

Credit/No Credit

ANTH 292A. Laboratory Work in Archaeology. 1 Unit
Prerequisite(s): ANTH 192A.
Corequisite(s): ANTH 295A.
Term Typically Offered: Fall, Spring

Laboratory preservation, cataloging and initial analysis of materials recovered through archaeological fieldwork. Graduate students are expected to help supervise undergraduate students and complete a self-directed project under the supervision of the instructor.
Note: Participant must have already completed ANTH 192A or its equivalent. May be repeated once for credit.

ANTH 295A. Fieldwork in Archaeology. 2 Units
Prerequisite(s): ANTH 195A or equivalent.
Corequisite(s): ANTH 292A.
Term Typically Offered: Fall, Spring

Students will assist the instructor in supervising undergraduate students or complete an assigned project in addition to the required fieldwork.
Note: May be repeated given that the topic and instructor changes.

ANTH 295B. Fieldwork in Ethnology. 2 - 3 Units
Term Typically Offered: Fall, Spring

Supervised graduate level fieldwork in ethnology and ethnography.

ANTH 295C. Fieldwork in Physical Anthropology. 2 - 3 Units
Term Typically Offered: Fall, Spring

Supervised graduate level fieldwork in physical anthropology. May include laboratory research.

ANTH 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of faculty member under whom individual work is to be conducted and the Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work at the graduate level; May be repeated given that topic and instructor changes; May be taken twice in the same semester.

Credit/No Credit

ANTH 500. Master's Thesis. 3 Units
Prerequisite(s): Advanced to Candidacy, successful completion of thesis research proposal, and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the master's degree. Number of units of credit is determined by the candidate's Master's degree advisory committee. Should be taken in final semester prior to the completion of all requirements for the degree.

BA in Anthropology (Archaeology and Biological Anthropology)

Units required for Major: 52, includes units of study in chosen concentration
Total units required for BA: 120

Program Description

The Archaeological and Biological Anthropology concentration provides students with the knowledge, skills and perspectives of scientific anthropology. It prepares students for careers in the anthropological sciences, such as cultural resources management, skeletal identification, zoological or museum technicians, or for graduate training.

Minimum Grade Requirement

Except for General Electives, all requirements must be completed with a grade of 'C-' or better.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (13 Units)		
ANTH 1	Introduction to Biological Anthropology [1]	3
ANTH 1A	Biological Anthropology Laboratory [1]	1
ANTH 2	Introduction to Cultural Anthropology	3
ANTH 3	Introduction to Archaeology [1]	3
ANTH 4	Language, Culture, and Critical Thinking [1]	3
Upper Division Core Requirements (12 Units)		
ANTH 146	Ethnographic Analysis	3
ANTH 162	Language and Culture	3
Select one of the following:		3
ANTH 111	California Archaeology	
ANTH 112	Great Basin Archaeology	
ANTH 113	Prehistory of the Southwest	
ANTH 114	North American Prehistory	
ANTH 122	The Evolution of Early Mesoamerican States	
ANTH 138	Peopling of North America	
Select one of the following:		3
ANTH 151	Human Paleontology	
ANTH 155	Fundamentals of Biological Anthropology	
ANTH 157	Human Variation	
Additional Requirement (3 Units)		
Anthropology majors select one statistics course [1,2]		3
Additional Requirements for Concentrations (24 Units)		
Select one of the following:		24
Archaeology & Biological Anthropology Concentrations		
Culture, Language & Society Concentration		
General Anthropology Concentration		
Total Units		52

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] e.g. STAT 1, or one approved by the Department.

Concentration in Archaeology & Biological Anthropology (24 units)

Code	Title	Units
Required Upper Division Courses (18 Units)		
Archaeology Theory		
Select one of the following:		3
ANTH 107	Anthropology of Hunters and Gatherers	
ANTH 109	Ecological and Evolutionary Approaches to Anthropology	
ANTH 110	Archaeological Method and Theory	
ANTH 115	Origins of Agriculture	
Theory in Biological Anthropology		
Select one of the following:		3
ANTH 151	Human Paleontology (If not taken as a core course)	
ANTH 152	Comparative Primate Morphology	
ANTH 154	Primate Behavior	
ANTH 156	Evolution of Human Behavior	
ANTH 157	Human Variation (If not taken as a core course)	
ANTH 171	Bioarchaeology: Analyzing Human Remains from Archaeology Sites	
Laboratory Methods		
Select one of the following:		3
ANTH 119	Analysis of Faunal Remains	
ANTH 120	Introductory Statistics for Anthropologists	
ANTH 124	Environmental Archaeology	
ANTH 126	Techniques of Archaeological Analysis	
ANTH 150	Human Osteology	
ANTH 179	Observing Primate Behavior	
ANTH 192A	Laboratory Work in Archaeology	
ANTH 195A	Fieldwork in Archaeology	
Breadth Requirement		
Select three from all the upper division courses listed above plus the following:		9
ANTH 123	Ancient Technology	
ANTH 127	Cultural Resource Management in Theory and Practice	
ANTH 128	Indians of California	
ANTH 135	Indians of North America	
ANTH 153	Evolutionary Medicine	
ANTH 158	Human Skeletal Analysis	
General Electives (6 Units)		
Select any two upper division courses from all of the above, plus the courses listed below or any related discipline (with approval from Major Advisor and Department Chair).		6
ANTH 108	Economic Anthropology	
ANTH 117	World Prehistory and the Evolution of Modern Humanity	
ANTH 118	The Anthropocene: Human Impacts on Ancient Environments	
ANTH 147	Peoples of Southeast Asia	
ANTH 159	Forensic Anthropology	
ANTH 161	African Cultures and Societies	

ANTH 166	Rise of Religious Cults	
ANTH 174	Anthropology of Food	
ANTH 188	Anthropology of the Body	
ANTH 189	Critical Medical Anthropology	
Total Units		24

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (7 Units)		
B1 - Physical Science		3
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course		3
Area D Course [2]		0
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		34

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Anthropology (Culture, Language and Society)

Units required for Major: 52 units, includes units of study in chosen concentration
Total units required for BA: 120

Program Description

The Culture, Language & Society concentration develops knowledge, skills and perspectives to understand and engage with our diverse, interconnected world. It is designed to meet the needs of students who wish to pursue graduate work or post-baccalaureate careers in government, the non-profit sector, education, healthcare or other contexts that require attention to cultural and linguistic dynamics.

Minimum Grade Requirement

Except for General Electives, all requirements must be completed with a grade of 'C-' or better.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (13 Units)		
ANTH 1	Introduction to Biological Anthropology [1]	3
ANTH 1A	Biological Anthropology Laboratory [1]	1
ANTH 2	Introduction to Cultural Anthropology	3
ANTH 3	Introduction to Archaeology [1]	3
ANTH 4	Language, Culture, and Critical Thinking [1]	3
Upper Division Core Requirements (12 Units)		
ANTH 146	Ethnographic Analysis	3
ANTH 162	Language and Culture	3
Select one of the following:		3
ANTH 111	California Archaeology	
ANTH 112	Great Basin Archaeology	
ANTH 113	Prehistory of the Southwest	
ANTH 114	North American Prehistory	
ANTH 122	The Evolution of Early Mesoamerican States	
ANTH 138	Peopling of North America	

Select one of the following:		3
ANTH 151	Human Paleontology	
ANTH 155	Fundamentals of Biological Anthropology	
ANTH 157	Human Variation	
Additional Requirement (3 Units)		
Anthropology majors select one statistics course		3
Additional requirements for Concentrations (24 Units)		
Select one of the following:		24
Archaeology & Biological Anthropology Concentrations		
Culture, Language & Society Concentration		
General Anthropology Concentration		
Total Units		52

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] e.g. STAT 1, or one approved by the Department.

Concentration in Culture, Language & Society (24 units)

Code	Title	Units
Required Upper Division Courses (12 Units)		
Theoretical Perspective		
Select one of the following:		3
ANTH 105	Anthropology of War	
ANTH 108	Economic Anthropology	
ANTH 140	Social Anthropology	
ANTH 141	Culture Theory	
ANTH 142	Political Anthropology	
ANTH 160	Linguistic Anthropology	
ANTH 167	Religion and Culture	
ANTH 168	Folklore in Anthropological Perspective	
ANTH 176	Museums, Culture, and Society	
ANTH 189	Critical Medical Anthropology	
ANTH 190	Advanced Topics in Linguistic Anthropology	
Methods		
Select one of the following:		3
ANTH 165	Applied Anthropology	
ANTH 169	Research Methods in Linguistic Anthropology	
ANTH 177	Museum Methods	
ANTH 192B	Laboratory in Ethnographic Techniques	
ANTH 195B	Fieldwork in Ethnology	
Breadth Requirement		
Select two of the following:		6
ANTH 131	Europe in the Ethnographic Imagination	
ANTH 144	Contemporary American Culture in Anthropological Perspective	
ANTH 145	Peoples and Cultures of Latin America	
ANTH 161	African Cultures and Societies	
ANTH 163	Urban Anthropology	
ANTH 164	Culture Change	
ANTH 172	Anthropologies of Music	
ANTH 173	Anthropology of Contemporary Asia	
ANTH 174	Anthropology of Food	
ANTH 175	Anthropology of Globalization	
ANTH 181	Anthropology of Human Rights	
ANTH 188	Anthropology of the Body	
Practicum (3 Units)		
ANTH 191	Anthropology Practicum	3
General Electives (9 Units)		
Select any three upper division courses from all of the above, plus the courses listed below, or any related discipline (with approval from Major Advisor and Department Chair). [1]		9
ANTH 109	Ecological and Evolutionary Approaches to Anthropology	
ANTH 115	Origins of Agriculture	
ANTH 117	World Prehistory and the Evolution of Modern Humanity	
ANTH 118	The Anthropocene: Human Impacts on Ancient Environments	
ANTH 123	Ancient Technology	
ANTH 127	Cultural Resource Management in Theory and Practice	
ANTH 128	Indians of California	
ANTH 135	Indians of North America	
ANTH 147	Peoples of Southeast Asia	
ANTH 154	Primate Behavior	
ANTH 159	Forensic Anthropology	
ANTH 166	Rise of Religious Cults	
ANTH 192A	Laboratory Work in Archaeology	
ANTH 195A	Fieldwork in Archaeology	
Total Units		24

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (7 Units)		
B1 - Physical Science		3
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course		3
Area D Course [2]		0
Area D Course [2]		0

Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	34

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Anthropology (General Anthropology)

Units required for Major: 52, includes units of study in chosen concentration
Total units required for BA: 120

Program Description

The General Anthropology concentration introduces students to the fundamentals of archaeological, biological, sociocultural and linguistic anthropology. It constitutes a good liberal arts foundation that will help students pursue advanced studies and/or careers in diverse fields.

Minimum Grade Requirement

Except for General Electives, all requirements must be completed with a grade of 'C-' or better.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (13 Units)		
ANTH 1	Introduction to Biological Anthropology [1]	3
ANTH 1A	Biological Anthropology Laboratory [1]	1
ANTH 2	Introduction to Cultural Anthropology	3
ANTH 3	Introduction to Archaeology [1]	3
ANTH 4	Language, Culture, and Critical Thinking [1]	3
Upper Division Core Requirements (12 Units)		
ANTH 146	Ethnographic Analysis	3
ANTH 162	Language and Culture	3
Select one of the following:		3
ANTH 111	California Archaeology	
ANTH 112	Great Basin Archaeology	
ANTH 113	Prehistory of the Southwest	
ANTH 114	North American Prehistory	
ANTH 122	The Evolution of Early Mesoamerican States	
ANTH 138	Peopling of North America	
Select one of the following:		3
ANTH 151	Human Paleontology	
ANTH 155	Fundamentals of Biological Anthropology	
ANTH 157	Human Variation	
Additional Requirement (3 Units)		
Anthropology majors select one statistics course [1,2]		3
Additional requirements for Concentrations (24 Units)		
Select one of the following:		24
Archaeology & Biological Anthropology Concentrations		
Culture, Language & Society Concentration		
General Anthropology Concentration		
Total Units		52

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] e.g. STAT 1, or one approved by the Department.

Concentration in General Anthropology (24 units)

Code	Title	Units
Required Upper Division Courses (12 Units)		
Select two of the following:		6
ANTH 107	Anthropology of Hunters and Gatherers	
ANTH 109	Ecological and Evolutionary Approaches to Anthropology	
ANTH 110	Archaeological Method and Theory	
ANTH 115	Origins of Agriculture	
ANTH 128	Indians of California	
ANTH 135	Indians of North America	
ANTH 152	Comparative Primate Morphology	
ANTH 153	Evolutionary Medicine	
ANTH 154	Primate Behavior	

ANTH 156	Evolution of Human Behavior	
ANTH 171	Bioarchaeology: Analyzing Human Remains from Archaeology Sites	
Select two of the following:		6
ANTH 105	Anthropology of War	
ANTH 108	Economic Anthropology	
ANTH 131	Europe in the Ethnographic Imagination	
ANTH 140	Social Anthropology	
ANTH 141	Culture Theory	
ANTH 142	Political Anthropology	
ANTH 144	Contemporary American Culture in Anthropological Perspective	
ANTH 145	Peoples and Cultures of Latin America	
ANTH 160	Linguistic Anthropology	
ANTH 163	Urban Anthropology	
ANTH 164	Culture Change	
ANTH 165	Applied Anthropology	
ANTH 167	Religion and Culture	
ANTH 168	Folklore in Anthropological Perspective	
ANTH 169	Research Methods in Linguistic Anthropology	
ANTH 172	Anthropologies of Music	
ANTH 173	Anthropology of Contemporary Asia	
ANTH 174	Anthropology of Food	
ANTH 175	Anthropology of Globalization	
ANTH 176	Museums, Culture, and Society	
ANTH 177	Museum Methods	
ANTH 181	Anthropology of Human Rights	
ANTH 188	Anthropology of the Body	
ANTH 189	Critical Medical Anthropology	
ANTH 190	Advanced Topics in Linguistic Anthropology	
ANTH 192B	Laboratory in Ethnographic Techniques	
ANTH 195B	Fieldwork in Ethnology	
General Electives (12 Units)		
Select four upper division courses from all of the above plus the following:		12
ANTH 117	World Prehistory and the Evolution of Modern Humanity	
ANTH 118	The Anthropocene: Human Impacts on Ancient Environments	
ANTH 120	Introductory Statistics for Anthropologists	
ANTH 123	Ancient Technology	
ANTH 127	Cultural Resource Management in Theory and Practice	
ANTH 147	Peoples of Southeast Asia	
ANTH 149	Cultures of South Asia	
ANTH 158	Human Skeletal Analysis	
ANTH 159	Forensic Anthropology	
ANTH 161	African Cultures and Societies	
ANTH 166	Rise of Religious Cults	
Total Units		24

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (7 Units)		
B1 - Physical Science		3
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course		3
Area D Course [2]		0
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		34

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

MA in Anthropology

Total units required for MA: 30

Program Description

The Master of Arts program in Anthropology is designed for students who plan to continue their graduate studies in Anthropology at the Ph.D. level as well as for students who plan to pursue any of the numerous opportunities for graduate anthropologists, such as in private research, cultural resource management, private foundations, Foreign Service, education, and government.

The program provides general graduate-level training in four interrelated fields: sociocultural anthropology, archaeology, biological anthropology, and linguistic anthropology. Beyond this foundation, each student designs a plan of coursework specific to their post-graduate goals in one of the four subfields. Students are then expected to demonstrate mastery of their subfield by preparing a thesis of original scholarly research.

Following admission to classified standing, each student is assigned a temporary advisor to determine the scope of his/her interests and academic background and to establish the plan for elective coursework. After the graduate interview, the student forms a Thesis Committee composed of a graduate advisor and at least one additional member of the Anthropology faculty. The responsibility of the Thesis Committee is to provide general academic advice and to guide the student in conducting research, preparation for the preliminary exam, developing the thesis proposal, and writing the thesis.

Students may develop their special interests through individual arrangements with their faculty advisors, or they may take advantage of opportunities for special training in such areas of Applied Anthropology as cultural resource management, museology, Anthropology in education, and medical Anthropology through participation in ongoing informal programs which may include special field work or intern placement with local agencies. Prospective students should visit the department website or contact the Graduate Coordinator for updated information on special opportunities.

Admission Requirements

Admission to classified graduate standing in Anthropology requires:

- a baccalaureate degree;
- a minimum 3.0 GPA for the last 60 units attempted.

Applicants lacking an undergraduate degree in anthropology may be conditionally accepted upon satisfactorily completing a set of prerequisite upper-division coursework based on the applicant's interests and goals in anthropology.

Admission Procedures

Graduate students are considered twice a year for admission for the fall and spring semester. To apply, applicants must complete a university application and a separate departmental application by the posted application deadline dates. Please submit the following to the Sacramento State Office of Graduate Studies:

- an online application for admission via CalState Apply;
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State*, should be sent to:

  California State University, Sacramento
  Office of Graduate Studies
  River Front Center 215
  6000 J Street
  Sacramento, CA 95819-6112

- official Graduate Record Exam (GRE) official scores

For more admissions information and application deadlines, please visit http://www.csus.edu/gradstudies/.

At the same time, each applicant must file online with the Anthropology Department:

- a completed Supplemental Application Form
- a statement of intent describing academic background and present interests
- two signed letters of recommendation on official letterhead from individuals who can assess the applicant's potential for graduate study

For more information regarding the department supplemental application, please visit https://www.csus.edu/anth/

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure may begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of 200-level Anthropology courses with a minimum 3.0 GPA;
- completed an approved draft of the thesis research proposal; and
- successfully passed a preliminary exam in their area of study
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Students should contact the Graduate Coordinator for current deadlines.

Note: Students may not enroll in ANTH 500 until Advanced to Candidacy, successful completion of thesis research proposal, and chair permission of his/her thesis committee. Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a program of study in consultation with his/her Anthropology faculty advisors. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Core Seminars (6 Units) [1]		
Select the seminar below in your area of study plus one additional core seminar:		6
ANTH 202	Biological Anthropology Seminar	
ANTH 203	Archaeology	
ANTH 205	Ethnology	
ANTH 207	Language and Culture	
Elective Graduate Seminars (9 Units)		
Select three of the following graduate seminars or additional core seminars listed above (with thesis advisor approval): [2]		9
ANTH 200	General Methods in Anthropology	
ANTH 201	Anthropological Theory	
ANTH 204	Current Problems in Archaeological Method and Theory	
ANTH 210	Research Design in Anthropology Seminar	
ANTH 222	Bioarchaeology Seminar	
ANTH 223	Areal Archaeology	
ANTH 258	Human Skeletal Analysis	
ANTH 274	Environmental Anthropology	
ANTH 276	Museum Anthropology	
Elective Graduate Course (3 Units)		
Select any additional 200-level course or seminar with the exception of ANTH 278, ANTH 292, ANTH 295, and ANTH 299.		3
General Electives (9 Units)		
Select any three elective graduate courses listed above or any upper division courses from the Anthropology major or a related discipline with approval from thesis advisor. [3]		9
Culminating Requirement (3 Units)		
ANTH 500	Master's Thesis [4]	3
Total Units		30

[1] Grade 'B-' or better required in each course listed.

[2] ANTH 200, 201, 204, and 223 may be repeated under different instructor or topic.

[3] Specific electives must be approved in advance by the student's Thesis Committee. For paired undergraduate-graduate lecture courses, graduate students must enroll at the 200-level. Graduate students who completed the 100-level paired course as an undergraduate may not retake the same course at the 200-level. No more than six semester units of paired coursework may count towards the degree. No more than six semester units of approved course credit from another department may be accepted towards general electives. No more than 3 units of ANTH 278 or ANTH 299 may be applied to the MA. ANTH 278 and ANTH 299 courses that have passed the seven-year University limit may not be applied to the MA.

[4] Students may not enroll in ANTH 500 until Advancement to Candidacy, successful completion of the thesis research proposal, and chair permission of his/her thesis committee. Students who do not finish their thesis within the semester of enrollment in ANTH 500 must enroll in ANTH 599 for up to three consecutive semesters to sustain their graduate standing. Students must re-enroll in ANTH 500 if they do not complete the thesis within four semesters.

Minor in Anthropology

Units required for Minor: 18, twelve of which must be in upper division

Program Description

Anthropology is the study of humans, past and present. Anthropologists take a broad approach to understanding the varieties of human experience, which uniquely places us at the juxtaposition of the social sciences, natural sciences and the humanities. Anthropology is traditionally organized into four subfields that offer distinctive skills.

Program Requirements [1]

Code	Title	Units
ANTH 178	Internship	3 - 4
ANTH 195A	Fieldwork in Archaeology	2
ANTH 195B	Fieldwork in Ethnology	2
ANTH 195C	Fieldwork in Physical Anthropology	2 - 3
ANTH 199	Special Problems	1 - 3

[1] There are no specific course requirements. However, no more than 3 units of the courses below may be counted toward the minor.

Asian Studies

College of Social Sciences and Interdisciplinary Studies

Program Description

Our Asian Studies Program geographically encompasses East Asia (China/Taiwan, Japan, the Koreas, and Mongolia), Southeast Asia (Brunei, Cambodia, East Timor, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand, and Vietnam), and South Asia (Afghanistan, Bhutan, India, Maldives, Nepal, Pakistan, and Sri Lanka). We offer in depth examinations of particular countries while also analyzing transnational issues that connect Asia, other regions, and the rest of the world including the United States.

The major is designed to provide students with a coherent introduction to the language, history, and culture of these Asian societies and to develop an interdisciplinary understanding of the major social and political forces at work in the region, supported by appropriate language training. Graduates of the program either continue their studies at graduate institutions or utilize their knowledge and training through employment in government, business or education relating to this increasingly important region of the world.

The minor offers students a framework to explore one or more Asian societies from an interdisciplinary perspective. It is particularly relevant

for students in various academic or applied disciplines who have a regional interest in Asia.

Degree Programs

BA in Asian Studies (Chinese Studies) (p. 914)

BA in Asian Studies (Japanese Studies) (p. 916)

BA in Asian Studies (Korean Studies) (p. 919)

BA in Asian Studies (South and Southeast Asian) (p. 921)

Minor in Asian Studies (p. 923)

Special Features

- The program comprises faculty in departments such as Anthropology, Art, Education, Ethnic Studies, History, Humanities and Religious Studies, Philosophy, Political Science, Psychology, and World Languages and Literatures.
- A program committee, comprised of the director and four members of the Asian Studies faculty, oversees the Asian Studies Program.
- The program strongly encourages students to expand their horizons through training in Asian languages and study abroad opportunities.

Contact Information

James Rae, Director
Tahoe Hall 3123
(916) 278-7866
rae@csus.edu

Jeffrey Dym, Vice Director
Tahoe Hall 3088
(916) 278-4425
dym@csus.edu

Rodrigo da Silva, Administrative Support Coordinator
r.silva@csus.edu

www.csus.edu/asia (http://www.csus.edu/asia/)

Faculty

CHIRAPRAVATI, PAT

CHO, EUNMI

RAE, JAMES DESHAW

DUBOIS, JOEL

DYM, JEFFREY

KIM-JU, GREG

KWON, JUNE HEE

LEE, YOUNG-IM

MASUYAMA, KAZUE

MONI, SUJATHA

TRICHUR, RAGHURAMAN

VANN, MICHAEL

VASSIL, KRISTINA SAKAMOTO

ASIA 96. The Way of Chanoyu: An Interdisciplinary Approach to the Japanese Tea Gathering. 3 Units
Term Typically Offered: Fall, Spring

This course traces the development of a multifaceted cultural practice integrating architecture, garden design, art, painting, and calligraphy into a carefully constructed hospitality ritual. Students explore multiple aspects of Japanese Chado via hands-on learning including aesthetic, economic, scientific, socio-political and cultural dimensions associated with tea. The course is taught in the Nakatani Tea Room, including weekly classroom lectures and discussions, demonstrations, on-line learning modules, a group project, and typically, a day field trip to San Francisco. Field trip(s) may be required.

ASIA 110. Anthropology of Contemporary Asia. 3 Units
Prerequisite(s): ANTH 146 or instructor permission
This course examines contemporary Asia as an articulation of intersecting historical, cultural, political and economic processes. The course will focus on postcolonial developments and critically explore the manner in which process of globalization and neoliberal strategies embed themselves within, and the responses they elicit from societies across Asia.

ASIA 134. History of Korea: Antiquity to Present. 3 Units
Term Typically Offered: Fall only

This course traces the historical development of Korean culture from the period the Three Kingdoms to the present. In addition to the texts and records, other sources such as literature, religion, and art will be examined to gain an understanding of and appreciation for the longevity of Korea as a culture and a polity.

ASIA 135. Contemporary Korean Culture. 3 Units
Term Typically Offered: Spring only

This course provides a comprehensive understanding of Korean culture and society through the analysis of contemporary Korean popular media. By critically examining the particular cultural phenomenon of the Korean Wave, this course upholds various Korean popular media (film drama, documentaries, and music) as significant forms of visual culture, which reflect as well as shape the reality of people's everyday lives both within and outside Korea.

ASIA 136. Korean Development and Behavior. 3 Units
This course examines critical issues in Korean human development and behavior with particular attention given to current theoretical perspectives within a fast developing society. Topics include identity, cognitive development, mental health, tiger parenting, gender roles, socio-emotional development, body image, and transracial adoptions. This course integrates an interdisciplinary approach and includes indigenous discourse on Confucianism and Eastern and Western thought to understand the underlying processes of the Korean heritage person as an individual and as a member of a larger society.

ASIA 140. Modern East Asian Cinema. **3 Units**
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

Survey of the development of cinema in Asia, focusing primarily on cinematic masterpieces from China, Hong Kong, and Japan. Focuses on directors, actors, and studios that left a lasting mark on cinema history. Also focuses on how the Asian aesthetic sense differs from the Hollywood norm.
Cross-Listed: HIST 140; only one may be counted for credit.

ASIA 146. US-China Relations. **3 Units**
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

This course explores the historical foundation of US-China relations, tracing from 19th century encounters through world wars, ideological confrontation, rapprochement, and into the contemporary era. Focus on international and political dimension of diplomatic and strategic interests, also explores cultural and social connections through trade, investment, migration, and tourism.
Cross-listed: POLS 146.

ASIA 151. Genocide in Southeast Asia. **3 Units**
Term Typically Offered: Fall, Spring

Survey of human rights abuses and genocides that have occurred in post-colonial Southeast Asia. Focuses on mass killings in Indonesia and Cambodia and communal riots often targeting the ethnic Chinese community, religious minorities, or highland peoples like the Hmong. Topics include cultural genocide, ideological pressure, and ethnic intolerance. An interdisciplinary literature will interpret the causes and conditions while introducing students to the diverse societies and cultures of Southeast Asia.

ASIA 190. Travel Study in Asia. **1 - 6 Units**
Term Typically Offered: Fall, Spring, Summer

A faculty-led study abroad course to Asia. Students will learn about one or more Asian countries through living and traveling in the country(ies), classroom instruction, and field trips to various sites. Fee course.
Fee course.
Field trip(s) may be required.

ASIA 195. Internship: Asian Studies. **1 - 3 Units**
Term Typically Offered: Fall, Spring

Supervised work experience on topics related to the study of Asia's art, culture, economics, geography, environment, politics, and government and social issues.
Credit/No Credit

ASIA 198. Asia in the World Today. **3 Units**
Prerequisite(s): Instructor permission.
Term Typically Offered: Spring only

Senior seminar in recent scholarship and current issues concerning Asia in the world today. A capstone course for Asian Studies majors, as well as graduate students interested in Asia.

ASIA 199. Special Problems. **1 - 3 Units**
Term Typically Offered: Fall, Spring

Individual research projects, including directed readings, under the direction of an Asian Studies faculty person.
Credit/No Credit

BA in Asian Studies (Chinese Studies)

Units required for Major: 36[1]
Total units required for BA: 120

[1] These 36 units include 12 units of study in a student's chosen concentration and units equivalent to the last two semesters of an Asian language appropriate to student's concentration by coursework or a language proficiency examination provided by the Department of Foreign Languages (see below)

Program Description

Pacific Asia, including the nation states on the Asian shores of the Pacific Rim, the Koreas, Japan, China, Taiwan, the Philippines, Vietnam, Cambodia, Thailand, Myanmar, Laos, Malaysia, Singapore, Brunei Darussalam, and Indonesia, is a region of great economic, political and strategic importance, possessing immense natural and human resources.

The major is designed to provide students with a coherent introduction to the language, history, and culture of Asian societies on the western rim of the Pacific Basin. While focusing on Pacific Asia, the program also supports the study of cultures from the Indian subcontinent and other regions of Asia. Each concentration provides an interdisciplinary understanding of the major social and historical forces at work in the region, supported by appropriate language training.

Graduates of the program either continue their studies at graduate institutions or utilize their knowledge and training through employment in government, business or education relating to this increasingly important region of the world.

Program Requirements

Code	Title	Units
Core Requirements (15 Units)		
ART 3A	Traditional Asian Art [1]	3
or ART 3B	Modern and Contemporary Asian Art	
ASIA 198	Asia in the World Today	3
or HIST 192C	Seminar in Recent Interpretations of Asian History	
HIST 6	Asian Civilizations [1]	3
HRS 70	Arts and Ideas of Asia: Ancient to Medieval [1]	3
or HRS 71	Arts and Ideas of Asia: Medieval to Modern	
GOVT 145		3
or MUSC 119A	World Music: Asia	
Concentration Requirements (12 Units)		
Select four courses from one of the following concentrations:		12
Japanese Studies Concentration		
Chinese Studies Concentration		
South and Southeast Asian Concentration		
Korean Studies Concentration		
Electives (9 Units)		

Select 9 units from three different groupings: [2]		9
Group 1: Japan		
ANTH 134	Japanese Culture and Society	
HIST 146A	Cultural History of Japan to 1800	
HIST 146B	Modern Japan, 1800-present	
HIST 146C	The History of Manga	
HRS 174	Modern Japanese Literature and Culture	
JAPN 120	Japanese Civilization	
Group 2: China		
ANTH 148	Anthropology of Chinese Societies	
CHIN 120	Chinese Civilization	
CHIN 150	Survey of Chinese Literature	
HIST 148A	China: Antiquity to 1600 AD	
HIST 148B	China, 1600 to Present	
HRS 172	The Classical Culture of China	
HRS 173	Chinese Philosophy and Religion	
PHIL 145A	Chinese Philosophy	
Group 3: Korea		
ASIA 134	History of Korea: Antiquity to Present	
ASIA 135	Contemporary Korean Culture	
ASIA 136	Korean Development and Behavior	
ART 117C	Art of Korea	
EDUC 128	Education and Communication in Korean Society	
Group 4: South and South-East Asia		
ANTH 147	Peoples of Southeast Asia	
ANTH 149	Cultures of South Asia	
ART 117A	Art of India and Southeast Asia	
ASIA 151	Genocide in Southeast Asia	
GEOG 125	Geography Of East Asia	
HIST 144	Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder	
HIST 145	South Asian History & Civilization	
HIST 149	The Making of Modern Southeast Asia	
HIST/HRS 147	History of Buddhism	
HRS 178	Religions of India	
PHIL 145B	Philosophies Of India	
Group 5: Asian-American		
ENGL 180M	Asian American Literature	
ETHN 110	The Asian American Experience	
ETHN 111	Southeast Asians in the US	
ETHN 112	Contemporary Asian American Issues	
ETHN 113	Asian American Communities	
ETHN 114	Asian Americans and Globalization	
ETHN 116	Asian American Politics and Public Policy	
ETHN/WOMS 118	Asian American Women	
ETHN 119	The Filipino American Experience	
ETHN 121	Hmong American Experience	
ETHN 122	Sikh Americans and Globalization	
ETHN 167	Asian American Families: Issues and Perspectives	
Group 6: Pan-Asia		
ASIA 110	Anthropology of Contemporary Asia	
ART 113B	Asian Art and Mythology	
ART 115	Topics in Asian Art	
ART 117B	Art of China and Japan	
ASIA/HIST 140	Modern East Asian Cinema	
GEOG 125	Geography Of East Asia	
HIST/HRS 147	History of Buddhism	
HRS 171	Introduction to the East Asian World	
HRS 175	Zen Buddhism and Daoism	
HRS 176	The Confucian Tradition	
WOMS 121	Women Of The Middle East	
Group 7: Advanced Language		
CHIN 110	Advanced Mandarin: Modern Chinese Fiction	
JAPN 110	Introduction to Japanese Literature	
JAPN 116A	Language and Culture of the Japanese and the Japanese in America	
JAPN 116B	Language and Culture of the Japanese and the Japanese in America	
JAPN 150	Advanced Japanese Grammar, Conversation	
Group 8: Fieldwork-Internships		
Select one of the following:		
ASIA 195	Internship: Asian Studies	
Approved Internships or Fieldwork in other departments		
Language Proficiency Requirement		
Select from the following courses to fulfill the proficiency requirements: [1,3]		
CHIN 1A	Elementary Mandarin	
CHIN 1B	Elementary Mandarin	
CHIN 2A	Intermediate Mandarin	
CHIN 2B	Intermediate Mandarin	
KORN 1A	Elementary Korean 1A	
KORN 1B	Elementary Korean 1B	
KORN 2A	Intermediate Korean 2A	
KORN 2B	Intermediate Korean 2B	
JAPN 1A	Elementary Japanese	
JAPN 1B	Elementary Japanese	
JAPN 2A	Intermediate Japanese	
JAPN 2B	Intermediate Japanese	
PUNJ 1A	Elementary Punjabi	
PUNJ 1B	Elementary Punjabi	
Total Units		36

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Students must take **9** units of electives from three different groupings. Students are not permitted to take an elective from their area of concentration. In other words, Japanese Studies Concentration Majors cannot take courses from group 1, Chinese Studies Concentration Majors cannot take courses from group 2, and Southeast Asia Concentration Majors cannot take courses from group 3.

[3] Students must demonstrate proficiency at a level equivalent to four semesters of an Asian language appropriate to their concentration by coursework or a language proficiency examination provided by the Department of Foreign Languages. Students concentrating in South or Southeast Asia can demonstrate proficiency in any South or Southeast Asian Language.

Concentration in Chinese Studies (12 units)

Code	Title	Units
Select four of the following:		12
ANTH 148	Anthropology of Chinese Societies	
CHIN 120	Chinese Civilization	
CHIN 150	Survey of Chinese Literature	
HIST 148A	China: Antiquity to 1600 AD	
HIST 148B	China, 1600 to Present	
HRS 172	The Classical Culture of China	
HRS 173	Chinese Philosophy and Religion	
PHIL 145A	Chinese Philosophy	
Total Units		12

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (3 Units)		
C1 - Arts [2]		0
C2 - Humanities [2]		0
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		40

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2,3]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Asian Studies (Japanese Studies)

Units required for Major: 36
Total units required for BA: 120

[1] These 36 units include 12 units of study in a student's chosen concentration and units equivalent to the last two semesters of an Asian language appropriate to student's concentration by coursework or a language proficiency examination provided by the Department of Foreign Languages (see below)

Program Description

Pacific Asia, including the nation states on the Asian shores of the Pacific Rim, the Koreas, Japan, China, Taiwan, the Philippines, Vietnam, Cambodia, Thailand, Myanmar, Laos, Malaysia, Singapore, Brunei Darussalam, and Indonesia, is a region of great economic, political and strategic importance, possessing immense natural and human resources.

The major is designed to provide students with a coherent introduction to the language, history, and culture of Asian societies on the western

rim of the Pacific Basin. While focusing on Pacific Asia, the program also supports the study of cultures from the Indian subcontinent and other regions of Asia. Each concentration provides an interdisciplinary understanding of the major social and historical forces at work in the region, supported by appropriate language training.

Graduates of the program either continue their studies at graduate institutions or utilize their knowledge and training through employment in government, business or education relating to this increasingly important region of the world.

Program Requirements

Code	Title	Units
Core Requirements (15 Units)		
ART 3A	Traditional Asian Art [1]	3
or ART 3B	Modern and Contemporary Asian Art	
ASIA 198	Asia in the World Today	3
or HIST 192C	Seminar in Recent Interpretations of Asian History	
HIST 6	Asian Civilizations [1]	3
HRS 70	Arts and Ideas of Asia: Ancient to Medieval [1]	3
or HRS 71	Arts and Ideas of Asia: Medieval to Modern	
GOVT 145		3
or MUSC 119A	World Music: Asia	
Concentration Requirements (12 Units)		
Select four courses from one of the following concentrations:		12
Japanese Studies Concentration		
Chinese Studies Concentration		
South and Southeast Asian Concentration		
Korean Studies Concentration		
Electives (9 Units)		
Select 9 units from three different groupings: [2]		9
Group 1: Japan		
ANTH 134	Japanese Culture and Society	
HIST 146A	Cultural History of Japan to 1800	
HIST 146B	Modern Japan, 1800-present	
HIST 146C	The History of Manga	
HRS 174	Modern Japanese Literature and Culture	
JAPN 120	Japanese Civilization	
Group 2: China		
ANTH 148	Anthropology of Chinese Societies	
CHIN 120	Chinese Civilization	
CHIN 150	Survey of Chinese Literature	
HIST 148A	China: Antiquity to 1600 AD	
HIST 148B	China, 1600 to Present	
HRS 172	The Classical Culture of China	
HRS 173	Chinese Philosophy and Religion	
PHIL 145A	Chinese Philosophy	
Group 3: Korea		
ASIA 134	History of Korea: Antiquity to Present	
ASIA 135	Contemporary Korean Culture	
ASIA 136	Korean Development and Behavior	
ART 117C	Art of Korea	
EDUC 128	Education and Communication in Korean Society	
Group 4: South and South-East Asia		
ANTH 147	Peoples of Southeast Asia	
ANTH 149	Cultures of South Asia	
ART 117A	Art of India and Southeast Asia	
ASIA 151	Genocide in Southeast Asia	
GEOG 125	Geography Of East Asia	
HIST 144	Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder	
HIST 145	South Asian History & Civilization	
HIST 149	The Making of Modern Southeast Asia	
HIST/HRS 147	History of Buddhism	
HRS 178	Religions of India	
PHIL 145B	Philosophies Of India	
Group 5: Asian-American		
ENGL 180M	Asian American Literature	
ETHN 110	The Asian American Experience	
ETHN 111	Southeast Asians in the US	
ETHN 112	Contemporary Asian American Issues	
ETHN 113	Asian American Communities	
ETHN 114	Asian Americans and Globalization	
ETHN 116	Asian American Politics and Public Policy	
ETHN/WOMS 118	Asian American Women	
ETHN 119	The Filipino American Experience	
ETHN 121	Hmong American Experience	
ETHN 122	Sikh Americans and Globalization	
ETHN 167	Asian American Families: Issues and Perspectives	
Group 6: Pan-Asia		
ASIA 110	Anthropology of Contemporary Asia	
ART 113B	Asian Art and Mythology	
ART 115	Topics in Asian Art	
ART 117B	Art of China and Japan	
ASIA/HIST 140	Modern East Asian Cinema	
GEOG 125	Geography Of East Asia	
HIST/HRS 147	History of Buddhism	
HRS 171	Introduction to the East Asian World	
HRS 175	Zen Buddhism and Daoism	
HRS 176	The Confucian Tradition	
WOMS 121	Women Of The Middle East	
Group 7: Advanced Language		
CHIN 110	Advanced Mandarin: Modern Chinese Fiction	
JAPN 110	Introduction to Japanese Literature	
JAPN 116A	Language and Culture of the Japanese and the Japanese in America	
JAPN 116B	Language and Culture of the Japanese and the Japanese in America	
JAPN 150	Advanced Japanese Grammar, Conversation	
Group 8: Fieldwork-Internships		
Select one of the following:		
ASIA 195	Internship: Asian Studies	
Approved Internships or Fieldwork in other departments		
Language Proficiency Requirement		
Select from the following courses to fulfill the proficiency requirements: [1,3]		

CHIN 1A	Elementary Mandarin	
CHIN 1B	Elementary Mandarin	
CHIN 2A	Intermediate Mandarin	
CHIN 2B	Intermediate Mandarin	
KORN 1A	Elementary Korean 1A	
KORN 1B	Elementary Korean 1B	
KORN 2A	Intermediate Korean 2A	
KORN 2B	Intermediate Korean 2B	
JAPN 1A	Elementary Japanese	
JAPN 1B	Elementary Japanese	
JAPN 2A	Intermediate Japanese	
JAPN 2B	Intermediate Japanese	
PUNJ 1A	Elementary Punjabi	
PUNJ 1B	Elementary Punjabi	
Total Units		36

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Students must take **9** units of electives from three different groupings. Students are not permitted to take an elective from their area of concentration. In other words, Japanese Studies Concentration Majors cannot take courses from group 1, Chinese Studies Concentration Majors cannot take courses from group 2, and Southeast Asia Concentration Majors cannot take courses from group 3.

[3] Students must demonstrate proficiency at a level equivalent to four semesters of an Asian language appropriate to their concentration by coursework or a language proficiency examination provided by the Department of Foreign Languages. Students concentrating in South or Southeast Asia can demonstrate proficiency in any South or Southeast Asian Language.

Concentration in Japanese Studies (12 units)

Code	Title	Units
Select four of the following:		12
ANTH 134	Japanese Culture and Society	
HIST 146A	Cultural History of Japan to 1800	
HIST 146B	Modern Japan, 1800-present	
HIST 146C	The History of Manga	
HRS 174	Modern Japanese Literature and Culture	
JAPN 120	Japanese Civilization	
Total Units		12

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (3 Units)		
C1 - Arts [2]		0
C2 - Humanities [2]		0
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		40

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2,3]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

BA in Asian Studies (Korean Studies)

Units required for Major: 36[1]
Total units required for BA: 120

[1] These 36 units include 12 units of study in a student's chosen concentration and units equivalent to the last two semesters of an Asian language appropriate to student's concentration by coursework or a language proficiency examination provided by the Department of Foreign Languages (see below)

Program Description

Pacific Asia, including the nation states on the Asian shores of the Pacific Rim, the Koreas, Japan, China, Taiwan, the Philippines, Vietnam, Cambodia, Thailand, Myanmar, Laos, Malaysia, Singapore, Brunei Darussalam, and Indonesia, is a region of great economic, political and strategic importance, possessing immense natural and human resources.

The major is designed to provide students with a coherent introduction to the language, history, and culture of Asian societies on the western rim of the Pacific Basin. While focusing on Pacific Asia, the program also supports the study of cultures from the Indian subcontinent and other regions of Asia. Each concentration provides an interdisciplinary understanding of the major social and historical forces at work in the region, supported by appropriate language training.

Graduates of the program either continue their studies at graduate institutions or utilize their knowledge and training through employment in government, business or education relating to this increasingly important region of the world.

Program Requirements

Code	Title	Units
Core Requirements (15 Units)		
ART 3A	Traditional Asian Art [1]	3
or ART 3B	Modern and Contemporary Asian Art	
ASIA 198	Asia in the World Today	3
or HIST 192C	Seminar in Recent Interpretations of Asian History	
HIST 6	Asian Civilizations [1]	3
HRS 70	Arts and Ideas of Asia: Ancient to Medieval [1]	3
or HRS 71	Arts and Ideas of Asia: Medieval to Modern	
GOVT 145		3
or MUSC 119A	World Music: Asia	
Concentration Requirements (12 Units)		
Select four courses from one of the following concentrations:		12
Japanese Studies Concentration		
Chinese Studies Concentration		
South and Southeast Asian Concentration		
Korean Studies Concentration		
Electives (9 Units)		
Select 9 units from three different groupings: [2]		9
Group 1: Japan		
ANTH 134	Japanese Culture and Society	
HIST 146A	Cultural History of Japan to 1800	
HIST 146B	Modern Japan, 1800-present	
HIST 146C	The History of Manga	
HRS 174	Modern Japanese Literature and Culture	
JAPN 120	Japanese Civilization	
Group 2: China		
ANTH 148	Anthropology of Chinese Societies	
CHIN 120	Chinese Civilization	
CHIN 150	Survey of Chinese Literature	
HIST 148A	China: Antiquity to 1600 AD	
HIST 148B	China, 1600 to Present	
HRS 172	The Classical Culture of China	
HRS 173	Chinese Philosophy and Religion	
PHIL 145A	Chinese Philosophy	
Group 3: Korea		
ASIA 134	History of Korea: Antiquity to Present	
ASIA 135	Contemporary Korean Culture	
ASIA 136	Korean Development and Behavior	
ART 117C	Art of Korea	
EDUC 128	Education and Communication in Korean Society	
Group 4: South and South-East Asia		
ANTH 147	Peoples of Southeast Asia	
ANTH 149	Cultures of South Asia	
ART 117A	Art of India and Southeast Asia	
ASIA 151	Genocide in Southeast Asia	
GEOG 125	Geography Of East Asia	
HIST 144	Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder	
HIST 145	South Asian History & Civilization	
HIST 149	The Making of Modern Southeast Asia	
HIST/HRS 147	History of Buddhism	
HRS 178	Religions of India	
PHIL 145B	Philosophies Of India	
Group 5: Asian-American		
ENGL 180M	Asian American Literature	
ETHN 110	The Asian American Experience	
ETHN 111	Southeast Asians in the US	
ETHN 112	Contemporary Asian American Issues	
ETHN 113	Asian American Communities	
ETHN 114	Asian Americans and Globalization	
ETHN 116	Asian American Politics and Public Policy	
ETHN/WOMS 118	Asian American Women	
ETHN 119	The Filipino American Experience	
ETHN 121	Hmong American Experience	
ETHN 122	Sikh Americans and Globalization	
ETHN 167	Asian American Families: Issues and Perspectives	
Group 6: Pan-Asia		
ASIA 110	Anthropology of Contemporary Asia	
ART 113B	Asian Art and Mythology	
ART 115	Topics in Asian Art	
ART 117B	Art of China and Japan	
ASIA/HIST 140	Modern East Asian Cinema	
GEOG 125	Geography Of East Asia	
HIST/HRS 147	History of Buddhism	
HRS 171	Introduction to the East Asian World	

HRS 175	Zen Buddhism and Daoism
HRS 176	The Confucian Tradition
WOMS 121	Women Of The Middle East
Group 7: Advanced Language	
CHIN 110	Advanced Mandarin: Modern Chinese Fiction
JAPN 110	Introduction to Japanese Literature
JAPN 116A	Language and Culture of the Japanese and the Japanese in America
JAPN 116B	Language and Culture of the Japanese and the Japanese in America
JAPN 150	Advanced Japanese Grammar, Conversation
Group 8: Fieldwork-Internships	
Select one of the following:	
ASIA 195	Internship: Asian Studies
Approved Internships or Fieldwork in other departments	
Language Proficiency Requirement	
Select from the following courses to fulfill the proficiency requirements: [1,3]	
CHIN 1A	Elementary Mandarin
CHIN 1B	Elementary Mandarin
CHIN 2A	Intermediate Mandarin
CHIN 2B	Intermediate Mandarin
KORN 1A	Elementary Korean 1A
KORN 1B	Elementary Korean 1B
KORN 2A	Intermediate Korean 2A
KORN 2B	Intermediate Korean 2B
JAPN 1A	Elementary Japanese
JAPN 1B	Elementary Japanese
JAPN 2A	Intermediate Japanese
JAPN 2B	Intermediate Japanese
PUNJ 1A	Elementary Punjabi
PUNJ 1B	Elementary Punjabi
Total Units	36

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Students must take **9** units of electives from three different groupings. Students are not permitted to take an elective from their area of concentration. In other words, Japanese Studies Concentration Majors cannot take courses from group 1, Chinese Studies Concentration Majors cannot take courses from group 2, and Southeast Asia Concentration Majors cannot take courses from group 3.

[3] Students must demonstrate proficiency at a level equivalent to four semesters of an Asian language appropriate to their concentration by coursework or a language proficiency examination provided by the Department of Foreign Languages. Students concentrating in South or Southeast Asia can demonstrate proficiency in any South or Southeast Asian Language.

Concentration in Korean Studies (12 units)

Code	Title	Units
Select four of the following:		12
ASIA 134	History of Korea: Antiquity to Present	
ASIA 135	Contemporary Korean Culture	
ASIA 136	Korean Development and Behavior	
EDUC 128	Education and Communication in Korean Society	
ART 117C	Art of Korea	
Total Units		12

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (3 Units)		
C1 - Arts [2]		0
C2 - Humanities [2]		0
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		40

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3

Race and Ethnicity in American Society (RE)	3
Foreign Language Proficiency Requirement [2,3]	0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

BA in Asian Studies (South and Southeast Asian)

Units required for Major: 36[1]
Total units required for BA: 120

[1] These 36 units include 12 units of study in a student's chosen concentration and units equivalent to the last two semesters of an Asian language appropriate to student's concentration by coursework or a language proficiency examination provided by the Department of Foreign Languages (see below)

Program Description

Pacific Asia, including the nation states on the Asian shores of the Pacific Rim, the Koreas, Japan, China, Taiwan, the Philippines, Vietnam, Cambodia, Thailand, Myanmar, Laos, Malaysia, Singapore, Brunei Darussalam, and Indonesia, is a region of great economic, political and strategic importance, possessing immense natural and human resources.

The major is designed to provide students with a coherent introduction to the language, history, and culture of Asian societies on the western rim of the Pacific Basin. While focusing on Pacific Asia, the program also supports the study of cultures from the Indian subcontinent and other regions of Asia. Each concentration provides an interdisciplinary understanding of the major social and historical forces at work in the region, supported by appropriate language training.

Graduates of the program either continue their studies at graduate institutions or utilize their knowledge and training through employment in government, business or education relating to this increasingly important region of the world.

Program Requirements

Code	Title	Units
Core Requirements (15 Units)		
ART 3A	Traditional Asian Art [1]	3
or ART 3B	Modern and Contemporary Asian Art	
ASIA 198	Asia in the World Today	3
or HIST 192C	Seminar in Recent Interpretations of Asian History	
HIST 6	Asian Civilizations [1]	3
HRS 70	Arts and Ideas of Asia: Ancient to Medieval [1]	3
or HRS 71	Arts and Ideas of Asia: Medieval to Modern	
GOVT 145		3
or MUSC 119A	World Music: Asia	
Concentration Requirements (12 Units)		
Select four courses from one of the following concentrations:		12
Japanese Studies Concentration		
Chinese Studies Concentration		
South and Southeast Asian Concentration		
Korean Studies Concentration		
Electives (9 Units)		
Select 9 units from three different groupings: [2]		9
Group 1: Japan		
ANTH 134	Japanese Culture and Society	
HIST 146A	Cultural History of Japan to 1800	
HIST 146B	Modern Japan, 1800-present	
HIST 146C	The History of Manga	
HRS 174	Modern Japanese Literature and Culture	
JAPN 120	Japanese Civilization	
Group 2: China		
ANTH 148	Anthropology of Chinese Societies	
CHIN 120	Chinese Civilization	
CHIN 150	Survey of Chinese Literature	
HIST 148A	China: Antiquity to 1600 AD	
HIST 148B	China, 1600 to Present	
HRS 172	The Classical Culture of China	
HRS 173	Chinese Philosophy and Religion	
PHIL 145A	Chinese Philosophy	
Group 3: Korea		
ASIA 134	History of Korea: Antiquity to Present	
ASIA 135	Contemporary Korean Culture	
ASIA 136	Korean Development and Behavior	
ART 117C	Art of Korea	
EDUC 128	Education and Communication in Korean Society	
Group 4: South and South-East Asia		
ANTH 147	Peoples of Southeast Asia	
ANTH 149	Cultures of South Asia	
ART 117A	Art of India and Southeast Asia	
ASIA 151	Genocide in Southeast Asia	
GEOG 125	Geography Of East Asia	
HIST 144	Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder	
HIST 145	South Asian History & Civilization	
HIST 149	The Making of Modern Southeast Asia	
HIST/HRS 147	History of Buddhism	
HRS 178	Religions of India	
PHIL 145B	Philosophies Of India	
Group 5: Asian-American		
ENGL 180M	Asian American Literature	
ETHN 110	The Asian American Experience	
ETHN 111	Southeast Asians in the US	
ETHN 112	Contemporary Asian American Issues	

ETHN 113	Asian American Communities
ETHN 114	Asian Americans and Globalization
ETHN 116	Asian American Politics and Public Policy
ETHN/WOMS 118	Asian American Women
ETHN 119	The Filipino American Experience
ETHN 121	Hmong American Experience
ETHN 122	Sikh Americans and Globalization
ETHN 167	Asian American Families: Issues and Perspectives
Group 6: Pan-Asia	
ASIA 110	Anthropology of Contemporary Asia
ART 113B	Asian Art and Mythology
ART 115	Topics in Asian Art
ART 117B	Art of China and Japan
ASIA/HIST 140	Modern East Asian Cinema
GEOG 125	Geography Of East Asia
HIST/HRS 147	History of Buddhism
HRS 171	Introduction to the East Asian World
HRS 175	Zen Buddhism and Daoism
HRS 176	The Confucian Tradition
WOMS 121	Women Of The Middle East
Group 7: Advanced Language	
CHIN 110	Advanced Mandarin: Modern Chinese Fiction
JAPN 110	Introduction to Japanese Literature
JAPN 116A	Language and Culture of the Japanese and the Japanese in America
JAPN 116B	Language and Culture of the Japanese and the Japanese in America
JAPN 150	Advanced Japanese Grammar, Conversation
Group 8: Fieldwork-Internships	
Select one of the following:	
ASIA 195	Internship: Asian Studies
Approved Internships or Fieldwork in other departments	
Language Proficiency Requirement	
Select from the following courses to fulfill the proficiency requirements: [1,3]	
CHIN 1A	Elementary Mandarin
CHIN 1B	Elementary Mandarin
CHIN 2A	Intermediate Mandarin
CHIN 2B	Intermediate Mandarin
KORN 1A	Elementary Korean 1A
KORN 1B	Elementary Korean 1B
KORN 2A	Intermediate Korean 2A
KORN 2B	Intermediate Korean 2B
JAPN 1A	Elementary Japanese
JAPN 1B	Elementary Japanese
JAPN 2A	Intermediate Japanese
JAPN 2B	Intermediate Japanese
PUNJ 1A	Elementary Punjabi
PUNJ 1B	Elementary Punjabi
Total Units	36

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Students must take **9** units of electives from three different groupings. Students are not permitted to take an elective from their area of concentration. In other words, Japanese Studies Concentration Majors cannot take courses from group 1, Chinese Studies Concentration Majors cannot take courses from group 2, and Southeast Asia Concentration Majors cannot take courses from group 3.

[3] Students must demonstrate proficiency at a level equivalent to four semesters of an Asian language appropriate to their concentration by coursework or a language proficiency examination provided by the Department of Foreign Languages. Students concentrating in South or Southeast Asia can demonstrate proficiency in any South or Southeast Asian Language.

Concentration in South and Southeast Asian (12 units)

Code	Title	Units
Select four of the following:		12
ANTH 147	Peoples of Southeast Asia	
ANTH 149	Cultures of South Asia	
ART 117A	Art of India and Southeast Asia	
ASIA 151	Genocide in Southeast Asia	
GEOG 125	Geography Of East Asia	
HIST 144	Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder	
HIST 145	South Asian History & Civilization	
HIST 149	The Making of Modern Southeast Asia	
HIST/HRS 147	History of Buddhism	
HRS 178	Religions of India	
PHIL 145B	Philosophies Of India	
Total Units		12

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (3 Units)		
C1 - Arts [2]		0
C2 - Humanities [2]		0
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3

Area D Course	3
Area D Course	3
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	40

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2,3]		0

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Minor in Asian Studies

Units required for Minor: 24, twelve of which must be in upper division

Program Description

The minor offers students a framework to explore one or more Pacific Asian societies from an interdisciplinary perspective. It is particularly relevant for students in various academic or applied disciplines who have a regional interest in Pacific Asia.

Program Requirements

Code	Title	Units
Course Requirements (12 Units)		
ART 3A	Traditional Asian Art	3
or ART 3B	Modern and Contemporary Asian Art	
ASIA 198	Asia in the World Today	3
or HIST 192C	Seminar in Recent Interpretations of Asian History	
GOVT 145		3
or MUSC 119A	World Music: Asia	
HIST 6	Asian Civilizations	3
Electives (12 Units)		
Select 12 units of electives from four different groupings listed under the major		12
Language Proficiency		
Language proficiency is not required for the minor; however, students are highly encouraged to study an Asian language.		
Total Units		24

California Studies

Department of Public Policy Administration

Program Description

California Studies is an interdisciplinary program designed to provide an understanding of California's institutions, culture, and environment in a manner that will be occupationally and academically useful to students in a variety of majors. With the state's central role as a gateway to the Pacific basin, substantial knowledge of California will be necessary for those preparing to engage in commerce and international trade. In addition, for students who are planning careers in the public sector, the California Studies minor will furnish background applicable to their future employment.

Degree Program

Minor in California Studies (p. 923)

Contact Information

Brendan Lindsay, Program Coordinator
Tahoe Hall 3061
(916) 278-6914
brendan.lindsay@csus.edu

Minor in California Studies

Units required for Minor: 21

Program Description

California Studies is an interdisciplinary program designed to provide an understanding of California's institutions, culture, and environment in a manner that will be occupationally and academically useful to students in a variety of majors.

Note: It is highly recommended that students consider an internship in a California setting offered by one of the participating departments.

Program Requirements

Code	Title	Units
ECON 114	The California Economy	3
GEOG 131	California	3
GOVT 180		3
HIST 183B	California History, 1860-1970	3
Select three of the following: [1]		9
ANTH 123	Ancient Technology	
ANTH 128	Indians of California	
ECON 132	State and Local Government Finance	
ENVS 110	Contemporary Environmental Issues	
GEOG 161	California's Water Resources	
GEOL 121	Geology of California	
GOVT 165		
HIST 183A	California History, 1542-1860	
HIST 185	California Indian History	
Total Units		21

[1] Must be taken from different departments

Economics

College of Social Sciences and Interdisciplinary Studies

Program Description

Economics is a social science that examines the functioning of markets, the determination of prices and distribution of income, and the determination of the overall level of income and rates of unemployment and inflation. In addition, Economics deals with various social problems. The Economics major at Sacramento State is designed to provide students with a liberal education with special emphasis on the economic aspects of society, on familiarization with techniques for the analysis of contemporary economic problems, developing the ability to think critically, and to conceptualize and to possess the communication and computer skills to evaluate private and public policy issues.

The Economics program is appealing to students due to the quality of its faculty, the breadth of its course offerings, and the amount of choice it offers the student in planning his or her coursework. In addition to training in the traditional economics areas, the program offers such diverse courses as the California economy, state and local finance, energy, environmental and resource economics, and urban economics. Students find the Department of Economics congenial to their educational and career objectives.

A minor in Economics may be especially attractive to students majoring in Business Administration, Government, and Environmental Studies or in one of the other Social Science disciplines. The Economics minor adds both theoretical and analytical depth. In addition, it provides the historical and institutional background important to an understanding of contemporary economic issues. It offers students in other majors a broader-based undergraduate education while widening the choice of job possibilities. Employers view the minor in Economics favorably.

Degree Programs

BA in Economics (p. 929)

Minor in Economics (p. 932)

Certificate in Economics Education (p. 931)

MA in Economics (p. 931)

Special Features

- Students in the Sacramento State Economics program benefit from a wide range of opportunities to work in the private and public sectors. The Economics Department offers internships for academic credit to students who are interested in the application of economics in the private and public sectors. This kind of practical experience enhances employment opportunities after graduation.
- Former Sacramento State Economics students are working at all levels of government and in many private businesses in the fields of finance, real estate, professional services, etc. Some are in the teaching profession, K-12 and community colleges, while others have continued their studies toward a Masters degree or a Ph.D. at such institutions as Notre Dame, Washington University at St. Louis, the University of Pittsburgh, University of California, Santa Cruz, Johns Hopkins University, and University of California, Davis.
- The Sacramento State Economics faculty is diverse in areas of specialization and draws upon both its advanced academic training and practical experience. Faculty members have published articles, papers, and books, and enjoy reputations as experts in their fields. Besides providing a reputable and experienced faculty, the Economics Department offers personal advising for students in the planning and meeting of academic and career goals.

Pre-Major Requirements

Freshman or transfer students interested in the Economics Major are admitted as Pre-Major Economics students.

To change to an Economics major, all students are required to complete the following grade and course requirements and submit a Declaration of Major form to the Economics Department along with transcript copies:

1. An overall GPA of 2.0 and be in good academic standing.
2. Completion of the Pre-Major Required Courses with a 'C' or better in each course. Only first or second attempts will be considered.

Career Possibilities

Actuary · Advertising Executive · Auditor· Bank Officer · Bond Trader · Budget Analyst · Business Forecaster · Business Manager· College Professor · Commodity Price Forecaster · Cost Analyst · Credit Analyst/ Loan Officer · Demographer· Economic Forecaster · Energy Economist · Entrepreneur · Estate Planner · Financial Analyst/Planner · Financial Officer · Government Administrator · Healthcare Administrator · Human Resources Administrator · Industrial/Institutional Buyer · Industry Analyst · Information Scientist · Insurance Salesperson · Intelligence Agent · International Trade Specialist · Journalist · Labor Relations Specialist · Lawyer · Litigation Analyst · Management Consultant/Analyst · Market Research · Analyst · Natural Resource Economist · Policy Analyst · Politician · Public Utilities Manager · Real Estate Agent/Broker · Sales Manager · Securities Salesperson/Broker · Statistician · Teacher · Technical Writer Transportation Specialist · Underwriter · Urban/Regional Planner

Contact Information

David Lang, Department Chair
Sharon Jordan, Administrative Support Coordinator

Tahoe Hall 3028
(916) 278-6223
www.csus.edu/econ (http://www.csus.edu/econ/)

Faculty

BURGHART, DANIEL

CHALMERS, KATHERINE

DUBE, SMILE

FORD, TIMOTHY

GALLET, CRAIG

KAPLAN, JONATHAN

LANG, DAVID

LI, HERMAN

O'KEEFE, SUZANNE

PEREZ, STEPHEN

SIEGLER, MARK

TADLE, RAUL

VAN GAASBECK, KRISTIN

WANG, TA-CHEN

ZHOU, YAN

ECON 1A. Introduction to Macroeconomic Analysis. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introductory inquiry into the workings and interrelationships of the aggregate economic system. The primary focus is on total production and its distribution, employment and price levels, and the forces influencing them. Other considerations are the roles of government, the monetary sector, and related areas.

ECON 1B. Introduction to Microeconomic Analysis. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introductory microeconomic analysis of the workings of supply and demand in the determination of price, resource allocation, and distribution. Markets are analyzed as they affect economic efficiency and income distribution.

ECON 100A. Intermediate Macroeconomic Theory. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Analysis of the determinants of the aggregate level of output, income, employment and prices.

ECON 100B. Intermediate Microeconomic Theory. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Analysis of household and firm behavior as the foundation of supply and demand.

ECON 101. History of Economic Thought. 3 Units
Prerequisite(s): ECON 1A, ECON 1B.
Term Typically Offered: Fall, Spring

Analysis of the development of economic theory from the predecessors of Adam Smith through John Maynard Keynes. The contributions made to the discipline by its principal figures are compared and evaluated.

ECON 104. Introduction to the United States Economy. 3 Units
Term Typically Offered: Fall, Spring

One semester survey of the principles of economics, basic methods of economic analysis, and their application to public policy and current events.
Note: Not open to students who have had ECON 1A or ECON 1B or those majoring in economics.

ECON 110. Cost Benefit Analysis. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Examines the rationale for government provision of goods and services and presents cost-benefit analysis as a method to evaluate public participation in a market economy.

ECON 112. European Economic History. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Analysis and evaluation of the economic forces and institutions shaping European economic development through the present period. Attention will be paid to the relationship between changes in the economic environment and attendant cultural, political, and ideological developments in the stages of tribalism, slavery, feudalism, capitalism, and socialism.

ECON 113. Economic History of the United States. 3 Units
Prerequisite(s): ECON 1A or ECON 104.
Term Typically Offered: Fall, Spring

Consideration of the economic growth and development of the U.S. with emphasis on a theoretical analysis of the economic factors shaping the national destiny.

ECON 114. The California Economy. 3 Units
Prerequisite(s): ECON 1A and ECON 1B, or ECON 104.
Term Typically Offered: Fall only

Examination of the process of the development of the State's economy as well as analysis of the various public economic issues that are of contemporary concern to Californians.

ECON 120. Economics and Environmental Degradation. 3 Units
Term Typically Offered: Fall, Spring

Analyzes environmental issues as economic issues. Economics as both a cause and cure for environmental destruction.

ECON 123. Resource Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Analyzes the economic based problem of exhaustion in both renewable and non-renewable resources. Emphasis is given to the optimal use of these resources over time and the effects that various market and non-market factors have on their future availability.

ECON 130. Public Finance. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade; ECON 100B recommended.
Term Typically Offered: Fall, Spring

Economic analysis of the public sector and its impact on the allocation of resources and the distribution of income. Emphasis given to the economics of government expenditure and taxation.

ECON 132. State and Local Government Finance. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall only

Analysis of the economics of state and local government finance, with an emphasis on California's fiscal system.

ECON 135. Money and Banking. 3 Units
Prerequisite(s): ECON 1A and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Examines the role of financial markets, the banking system, and the Federal Reserve System in the economy. Included are an introduction to present value and the behavior of interest rates, analysis of money creation, and evaluation of monetary policy.

ECON 138. Monetary and Fiscal Policy. 3 Units
Prerequisite(s): ECON 1A, STAT 1, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade; ECON 100A and ECON 140 recommended.
Term Typically Offered: Spring only

Analyzes the policies of central banks and fiscal authorities as they relate to the stability and growth of the macroeconomy. Examines the theoretical and empirical literature regarding the conduct of monetary and fiscal policy and applies the tools of economic analysis to understand macroeconomic policy debates.

ECON 140. Quantitative Economic Analysis. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, STAT 1, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Examination of the basics of conducting quantitative economic analysis. Included are basic concepts and methods of data analysis and research. Students will examine economic data using spreadsheets, will develop presentation skills, and be introduced to career opportunities.

ECON 141. Introduction to Econometrics. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, ECON 140, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade; ECON 100A or ECON 100B recommended.
Term Typically Offered: Fall, Spring

Covers the basics of regression analysis, estimation, and forecasting.

ECON 145. Economic Research Methods. 3 Units
Prerequisite(s): ECON 100A, ECON 100B, ECON 140 with a minimum 'C' grade; GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Covers the basics of conducting applied economic research: the selection of topic, literature survey, choice of research method, formulation of hypothesis, testing of hypothesis using empirical analysis, and summary and conclusions. Designed to enhance the students ability to integrate economic theory, quantitative research skills, and research.

ECON 150. Labor Economics. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Spring only

Economic analysis of labor markets, with special reference to employment, wage determination, and the role of government.

ECON 152. Economics of Education. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall only

Introduction to the various aspects of the economics of education. Applies the tools of economic analysis to education policy and problem solving. Topics include cost-benefit analysis of education, the signaling vs. human capital debate, race and gender issues in education, education production functions, and financing education at the elementary, secondary, and post-secondary levels. Emphasis placed on individual and social choice in education.

ECON 153. Health Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall only

Introduction to the field of health economics. Applies the tools of economics to the production of health and health care. Special emphasis on health care institutions, the role of industry, health care reform, and the role of government, in addition to the public provision of care to the disadvantaged.

ECON 160. Industrial Organization. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Spring only

Analyzes firm decision-making in a variety of market settings. Topics include pricing and output decisions, entry and exit issues, marketing strategies, horizontal mergers, vertical integration, technological change, and U.S. antitrust policy.

ECON 161. Fundamentals of Game Theory. 3 Units
Prerequisite(s): ECON 1B, STAT 1, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Spring only

An analysis of strategic games with sequential or simultaneous moves under complete information and uncertainty. Discussion of theory and techniques is combined with examination of specific classes of games and their application to real-world examples such as markets, voting, auctions, and international relations

ECON 162. Energy Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Analyzes the structure, conduct, and consequences of domestic and international energy markets. Particular emphasis on regulated industries including petroleum, electrical, and other power sources. The economic impact on energy markets of emerging technology is examined.

ECON 170. Public Economics and Regulation. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Spring only

Examination of government regulation of industry in the North American context: transportation, communication, energy, and other industries. Issues include deregulation, public ownership, pricing, and investment.

ECON 180. Urban Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Spring only

Economic analysis and appraisal of models of urban development. Includes consideration of the rise of cities, land use, unemployment, poverty, housing, urban renewal, transportation, and the local public sector.

ECON 181. Economics of Racism. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Spring only

Economic analysis of the origins and development of racism, focusing mainly on its impact in the U.S. Differing theoretical explanations surrounding racism will be compared and evaluated.

ECON 184. Women and the Economy. 3 Units
Term Typically Offered: Fall only

Investigation of the current economic status of women in the U.S., of past and present economic discrimination experienced by women in the labor market, of the historical reasons for that discrimination and of the means and methods of ending that discrimination.

ECON 186. Sports Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Applies the essential economic concepts and develops them with examples and applications from the sports industry. Covers basic economic concepts: economic principles, supply and demand, perfect competition, and monopoly behavior. It also applies these concepts to a variety of topics: the public finance of sports franchises, the costs/benefits of a sports franchise to a city, labor markets and labor relations, discrimination, and amateurism and college sports.

ECON 189. Economics at the Movies. 3 Units
Term Typically Offered: Fall only

Analysis of the use and treatment of economic theory and history in popular American films. Emphasis is placed on the topics of game theory, industrial organization, entrepreneurship, law and economics, labor economics, the stock market, and American economic history. The entertainment industry will also be examined from an economic perspective.

ECON 190. International Trade. 3 Units
Prerequisite(s): ECON 1A, ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Analysis of the causes and results of trade among nations. Introduction to modern trade theory is combined with examination of trade instruments and policy analysis.

ECON 192. International Finance. 3 Units
Prerequisite(s): ECON 1A, ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Critical examination of the theories and practices of financing trade among nations. International financial and monetary theories focus on how the world and financial system works, given globalization and international economic integration.

ECON 193. Development Economics. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

An analysis of the factors involved in the growth of economies. The focus is on the application of development economics and growth theory to the process of economic growth in developing countries. Particular attention is given to variables that explain growth, namely, technological progress, population growth, saving, trade, human capital and education, and the role of institutions.

ECON 195. Economic Internship. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised economic-related work experience, research, or teaching assistance to provide an opportunity for the student to apply principles and theories learned in the classroom to the 'real world.'
Credit/No Credit

ECON 196E. Behavioral and Experimental Economics. 3 Units
Prerequisite(s): ECON 100B
Term Typically Offered: Fall only

Introduction to the fields of behavioral and experimental economics. Applies tools of microeconomic theory to the decisions made by individuals. Special emphasis on the utility maximization hypothesis, decision making in the face of risk and uncertainty, intertemporal choice, other regarding preferences, game theory, and neuroeconomics.

ECON 197A. Economics Exchange Mentee. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Provides opportunity for lower division students, transfer students, and newly declared majors to be mentored by more advanced upper division students or graduate students. The peer mentoring will help students meet academic deadlines, achieve academic success, become engaged in campus activities and get integrated into the Economics Department.
Note: Units may not be applied towards unit requirement of the Economics major.

Credit/No Credit

ECON 197B. Economics Exchange Mentor. 1 - 3 Units
Prerequisite(s): Upper division or graduate student standing and instructor permission.
Term Typically Offered: Fall, Spring

Provides opportunity for advanced upper division students or graduate students to mentor lower division students. The peer mentoring will help students meet academic deadlines, achieve academic success, become engaged in campus activities and be integrated into the Economics Department.
Note: Units may not be applied towards unit requirement of the Economics major; May be repeated for up to 3 units credit from ECON 197A & ECON 197B combined.

Credit/No Credit

ECON 198. Tutoring in Economics. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised tutorials at educational institutions including Sacramento State where and when appropriate arrangements can be made. Prior approval for tutoring must be obtained from the Economics Department. Emphasis is on the development of effectiveness in the teaching of economics.
Credit/No Credit

ECON 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Admission requires approval of the faculty sponsor and the Department Chair.
Credit/No Credit

ECON 200A. Advanced Macroeconomic Theory. 3 Units
Prerequisite(s): ECON 141 and ECON 200M.
Term Typically Offered: Fall, Spring

Theories of the determinants of aggregate income, employment and prices. May be taken independently of ECON 200B.

ECON 200B. Advanced Microeconomic Theory. 3 Units
Prerequisite(s): ECON 200M.
Term Typically Offered: Fall, Spring

Theories of the consumer, producer, and market structure. May be taken independently of ECON 200A.

ECON 200C. Advanced Applied Economics. 3 Units
Prerequisite(s): ECON 200A, ECON 200B, and ECON 241.
Term Typically Offered: Fall, Spring

Applies empirical analysis to topics in microeconomics and macroeconomics. Topics may include stationarity, vector autoregression, vector error correction models, calibration, fixed effects, instrumental variables, multinomial logit, and duration models. Students implement these models using econometric software. Students will write an empirical paper intended to become a prospectus for the master's thesis.

ECON 200M. Mathematics for Economists. 3 Units
Prerequisite(s): ECON 100A, ECON 100B, MATH 26A.
Term Typically Offered: Fall, Spring

Equips students with the mathematical techniques necessary for the study of economics and econometrics at the graduate level. Covers linear algebra, derivatives, comparative static analysis, optimization, integrals, and differential equations, with specific applications from economic and econometric theory.

ECON 204. Business Economics. 3 Units
Term Typically Offered: Fall, Spring

Intensive one-semester course covering both macroeconomics and microeconomics. Emphasis is on economic analysis and policy. Designed for graduate students who have not taken ECON 1A and ECON 1B or their equivalents.

ECON 213. U.S. Economic Development in Historical Perspective. 3 Units
Prerequisite(s): Admission to MA program in Economics.
Term Typically Offered: Fall, Spring

Introduction and analysis of American economic development from a historical perspective, focusing on the trajectory of American economic development from recent advances in theoretical and empirical economics literature. Cover topics on long-term economic growth, technological change, business cycles and fluctuations, financial markets, labor markets, and economic impacts of social change.

ECON 230. Public Finance. 3 Units
Prerequisite(s): ECON 200B.
Term Typically Offered: Fall, Spring

An analysis of the allocation and distribution effects of government expenditures and taxation.

ECON 238. Monetary and Fiscal Policy. 3 Units
Prerequisite(s): ECON 200A.
Term Typically Offered: Fall, Spring

Analyzes the policies of central bank and fiscal authorities as they relate to full employment and stability of the national economy.

ECON 241. Applied Econometric Analysis. 3 Units
Prerequisite(s): ECON 141
Corequisite(s): ECON 200M
Term Typically Offered: Fall, Spring

Applied econometric analysis with emphasis on the use of econometric techniques in economic research settings, expressing economic theory in the form of econometric models, data collection, estimation, and interpretation of results. Students work individually or as a team on a current research topic from various fields of economics preselected or approved by instructor.

ECON 251. Urban Problems, Economics and Public Policy. 3 Units
Term Typically Offered: Fall, Spring

Historical development, economics and possible policy solutions of the most pressing problems facing central cities and urban areas in the U.S. are presented. Problems discussed include poverty, crime, urban abandonment/suburban sprawl, edge cities, deteriorating infrastructures, and fiscal stress.
Cross Listed: PPA 251; only one may be counted for credit.

ECON 260. Industrial Organization and Performance. 3 Units
Prerequisite(s): Classified graduate status in Economics or instructor permission.
Term Typically Offered: Fall, Spring

A modern analysis of industry structure, conduct, and performance. Emphasis is placed on the use of game theory to address firm behavior, including price and output decisions, entry and exit, horizontal mergers, technological change, and marketing issues.

ECON 263. Food Economics. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to advanced economic theory and econometric methods applied to the economics of food with emphasis on food consumption and the complexity of individual food choices. Utilizing cost-benefit analyses and concepts like constrained utility maximization, household production, opportunity costs of time, and information search, implications for a global food system will be derived. We will apply learned concepts to health and environmental concerns by discussing the recent applied economics and policy evaluation literature.

ECON 265. Cost Benefit Analysis. 3 Units
Term Typically Offered: Fall, Spring

Examination of the theories, foundations, and philosophies of economic welfare. Specifically, the basic techniques of cost-benefit analysis will be presented and applied to various policy issues.

ECON 290. International Trade. 3 Units
Prerequisite(s): Classified graduate status in Economics or instructor permission.
Term Typically Offered: Fall, Spring

Analysis of modern trade theories, their empirical relevance, and the role of multinational firms in the evolution of international trade patterns. Discussion focuses on theoretical and empirical evaluation of trade policy instruments. Various trade agreements are also discussed in the context of economic integration and globalization. Attention is also given to foreign direct investment as a vehicle of globalization and the challenges it poses to both multinational firms and host countries.

ECON 295. Economic Internship. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience or research on economic topics in government, financial, business, charitable or other kinds of institutions to provide an opportunity for the student to apply principles and theories learned in the classroom to the 'real world.' Partial supervision may be supplied by persons in the institution under study.
Credit/No Credit

ECON 298. Tutoring In Economics. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised tutorials at educational institutions including Sacramento State where and when appropriate arrangements can be made. Prior approval for tutoring must be obtained from the Economics Department. Emphasis is on the development of effectiveness in the teaching of economics.
Credit/No Credit

ECON 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Admission requires approval of the faculty sponsor and the Department Chair.
Credit/No Credit

ECON 500. Master's Thesis. 3 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree. Should be taken in final semester prior to the completion of all requirements for the degree.

BA in Economics

Units required for Major: 42-45
Total units required for BA: 120

Program Description

The Economics program is appealing to students due to the quality of its faculty, the breadth of its course offerings, and the amount of choice it offers the student in planning his or her coursework. In addition to training in the traditional economics areas, the program offers such diverse courses as the California economy, state and local finance, energy, environmental and resource economics, and urban economics. Students find the Department of Economics congenial to their educational and career objectives.

Note: Students planning ahead for graduate work in Economics should consult an advisor regarding additional and/or focused coursework in mathematics, statistics, and computer science.

Note: The Department schedules courses so that the upper division requirements for the BA can be completed at night within two academic years. Evening students should contact the Department for assistance in planning a two-year program. Failure to do so may mean a delay in graduation due to scheduling problems.

Pre-Major Requirements

Freshman or transfer students interested in the Economics Major are admitted as Pre-Major Economics students.

To change to an Economics major, all students are required to complete the following grade and course requirements; complete a Department of Economics Change of Major form; and meet with a faculty advisor.

1. An overall GPA of 2.0 and be in good academic standing.
2. Completion of the Pre-Major Required Courses with a 'C' or better in each course. Only first or second attempts will be considered.

Program Requirements

Code	Title	Units
Pre-Major Required Courses (12 Units)		
ECON 1A	Introduction to Macroeconomic Analysis [1]	3
ECON 1B	Introduction to Microeconomic Analysis [1]	3
MATH 24	Modern Business Mathematics	3
STAT 1	Introduction to Statistics [1]	3
Required Upper Division Courses (15 Units)		
ECON 100A	Intermediate Macroeconomic Theory	3
ECON 100B	Intermediate Microeconomic Theory	3
ECON 101	History of Economic Thought	3
or ECON 113	Economic History of the United States	
ECON 140	Quantitative Economic Analysis	3
ECON 145	Economic Research Methods	3
Electives (18 Units)		
Select 18 units of upper division Economics courses [2]		18
Total Units		45

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Additional upper division courses in Economics, selected in consultation with a faculty advisor.

Notes:

- Minimum grade of 'C' required in all courses listed above.
- ECON 145 must be completed in the student's graduating semester. The following must be completed prior to enrolling in ECON 145:

Code	Title	Units
ECON 100A	Intermediate Macroeconomic Theory	3
ECON 100B	Intermediate Microeconomic Theory	3
ECON 140	Quantitative Economic Analysis	3

- MATH 24 requirement can also be met by completing MATH 26A or MATH 30 with a grade of 'C' or better.
- MATH 26A or MATH 30, or an upper division course in math or statistics, selected in consultation with an advisor, may also substitute for three of the 33 upper division units in Economics.
- ECON 104 does not meet major requirements.
- No more than 3 units total of the following may be included in the 33 total required upper division units:

Code	Title	Units
ECON 195	Economic Internship	1 - 3
ECON 198	Tutoring in Economics	1 - 3
ECON 199	Special Problems	1 - 3

- No more than 3 units from the following set of courses may be used to meet the requirements of the Economics major:

Code	Title	Units
ECON 112	European Economic History	3
ECON 120	Economics and Environmental Degradation	3
ECON 181	Economics of Racism	3
ECON 184	Women and the Economy	3
ECON 189	Economics at the Movies	3

- Students planning graduate work in Economics should consult an advisor regarding additional coursework in mathematics, statistics, and computer science. The following are strongly recommended:

Code	Title	Units
ECON 141	Introduction to Econometrics	3
MATH 26A	Calculus I for the Social and Life Sciences	3
MATH 26B	Calculus II for the Social and Life Sciences	3

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (10 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course		3
Area D Course [2]		0
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		40

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3

American Institutions: U.S. Constitution & CA Government	3
Writing Intensive (WI)	3
Graduation Requirements (required by Sacramento State) (12 Units)	
English Composition II	3
Race and Ethnicity in American Society (RE)	3
Foreign Language Proficiency Requirement [2]	6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Certificate in Economics Education

Units required for Certificate: 15

Program Description

The Economics Education Certificate Program is designed to give participants a solid foundation in economics that will enable them to teach the subject in primary and secondary schools. The Certificate Program is intended for

1. future or practicing teachers who desire credential authorization to teach the one-semester economics course required of all California public high school students; and
2. future or practicing teachers who wish to infuse economics into other K-12 curricula.

Students majoring in Liberal Studies or Social Science or completing a teacher credential program are especially encouraged to participate.

Note: Participants who are not enrolled in Sacramento State may take these courses through the College of Continuing Education.

For more information about the program, contact: Director of the Center for Economic Education, Professor David M. Lang, (916) 278-7077.

Minimum Grade Requirement

A grade of "B" or higher must be obtained in each course for the Certificate.

Program Requirements

Code	Title	Units
Required Core Courses (9 Units)		
ECON 1A	Introduction to Macroeconomic Analysis	3
ECON 1B	Introduction to Microeconomic Analysis	3
ECON 195	Economic Internship [1]	3
Elective Course (6 Units)		
Select any two upper division economics course [2]		6
Total Units		15

[1] The ECON 195 requirement will enable the student to serve as a Teaching Assistant to a professor teaching either ECON 1A or ECON 1B. Students must receive the permission of the Director of the Center for Economic Education prior to enrolling in ECON 195 for the Certificate program and will be assigned to a professor by the Director.

[2] not including ECON 104

MA in Economics

Total units required for MA: 30

Program Description

The Master of Arts program in Economics is designed to assist students in developing the analytical skills and reflective capacities required to think clearly and coherently about economic matters and to apply their skill and knowledge effectively to problem areas. The program seeks to prepare students for careers in business, government, and education where applied skills are appropriate. To this end, the Department offers coursework and supervised study in economic theory, quantitative analysis, and a number of other fields of interest.

In line with the applied emphasis of the graduate program, the Department maintains a relationship with both the California state government and many private organizations in the Sacramento area. Recent graduates have gone on to jobs in government at all levels as well as to careers in labor unions, banks, manufacturing corporations, and other private organizations.

Admission Requirements

Admission as a classified graduate student in Economics requires:

- a minimum 3.0 GPA in the last 60 units attempted;
- a minimum 3.0 GPA in undergraduate Economics work;
- ECON 100A (Intermediate Macroeconomic Theory) or equivalent; and ECON 100B (Intermediate Microeconomic Theory) or equivalent;
- ECON 141 (Introduction to Econometrics) or equivalent;
- MATH 26A (Calculus I) or equivalent; recommend MATH 26B (Calculus II) or equivalent;
- Graduate Record Examination;
- two letters of recommendation from undergraduate instructors;
- a minimum score of 550 on the TOEFL (this requirement applies only to students earning degrees abroad whose primary language is not English); and
- a baccalaureate degree.

Students not meeting the above requirements may be granted conditionally classified graduate status with permission of the Economics Department Graduate Committee, providing the applicant submits in writing the reasons why he/she desires graduate training and why the Committee should waive one or more of the above requirements. Students accepted on this basis may be required to complete a set of courses prior to beginning the Economics Graduate core, or to fulfill other conditions prior to approval for fully classified status. Failure to conform to this stipulation will result in the revocation of the conditionally classified status.

Admission Procedures

Applicants must complete a university application and also meet departmental requirements by the posted application deadline date for term applying. *For more admission information and application deadlines, please visit* http://www.csus.edu/gradstudies/. Admission based on the deadlines allows students to meet registration deadlines. Applications submitted after the above-mentioned deadlines will only be reviewed in the event that room for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following documents with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for admission;
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State*;
- Graduate Record Examination (GRE) scores (verbal, quantitative, and analytical portion); and
- TOEFL scores, if applicable.

In addition to the above documents, arrange for two letters of recommendation to be sent to the Economics Department. Any applicant not meeting the first three admission requirements as specified above should submit to the Department in writing his/her reasons for requesting a waiver of the admission requirements.

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy as soon as the graduate student has:

- successfully completed the following, and with a minimum grade of 'B':

Code	Title	Units
ECON 141	Introduction to Econometrics	3
ECON 200A	Advanced Macroeconomic Theory	3
ECON 200B	Advanced Microeconomic Theory	3

- be enrolled, or have successfully completed ECON 200C;
- been recommended for advancement by the Graduate Committee; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with the Economics Department Graduate Coordinator. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

The following **cannot** be used as part of the 30 units toward the master's degree:

Code	Title	Units
ECON 112	European Economic History	3
ECON 120	Economics and Environmental Degradation	3
ECON 181	Economics of Racism	3
ECON 184	Women and the Economy	3
ECON 189	Economics at the Movies	3
ECON 195	Economic Internship	1 - 3
ECON 198	Tutoring in Economics	1 - 3
ECON 199	Special Problems	1 - 3
ECON 204	Business Economics	3

All students are required to complete the core course sequence outlined below with a minimum grade of 'B' in each course. After completing the core courses, the student selects a thesis plan to finish the degree requirements. The core courses, as well as the thesis, are outlined below.

Code	Title	Units
Core Courses (15 Units)		
ECON 200A	Advanced Macroeconomic Theory	3
ECON 200B	Advanced Microeconomic Theory	3
ECON 200C	Advanced Applied Economics	3
ECON 200M	Mathematics for Economists	3
ECON 241	Applied Econometric Analysis	3
Other Requirements (12 Units)		
Select 12 units of electives [1]		12
Culminating Requirement (3 Units)		
ECON 500	Master's Thesis	3
Total Units		30

[1] Of these 12 units, **six** units (i.e., 2 courses) must come from 200-level courses. Note the following:
- There can be no 100-level/200-level duplication of similar courses (e.g., you cannot receive credit for ECON 130 and ECON 230, ECON 138 and ECON 238, etc.).
- Selected courses (e.g., Math, Statistics, or Computer Science) from other departments may be allowed as substitutes with the approval of the Graduate Coordinator.
- ECON 295 and ECON 298 do not count as electives toward satisfying the 12 unit requirement without the approval of the Graduate Coordinator.

Minor in Economics

Units required for Minor: 21, twelve of which must be upper division Economics units

Program Description

A minor in Economics may be especially attractive to students majoring in Business Administration, Government, and Environmental Studies or in one of the other Social Science disciplines. The Economics minor adds both theoretical and analytical depth. In addition, it provides the historical and institutional background important to an understanding

of contemporary economic issues. It offers students in other majors a broader-based undergraduate education while widening the choice of job possibilities. Employers view the minor in Economics favorably.

Program Requirements

Code	Title	Units
ECON 1A	Introduction to Macroeconomic Analysis	3
ECON 1B	Introduction to Microeconomic Analysis	3
Total Units		6

[1] STAT 1 may be counted toward the minor.

[2] No more than 3 units of ECON 199 may be used to meet the Economic Minor requirements.

[3] No more than 6 units from the following courses may be used to meet the Economic Minor requirements: ECON 112, ECON 120, ECON 181, ECON 184, and ECON 189.

Notes: The following cannot be used to meet the requirements of the Economics minor:

Code	Title	Units
ECON 104	Introduction to the United States Economy	3
ECON 195	Economic Internship	1 - 3
ECON 198	Tutoring in Economics	1 - 3

Environmental Studies

College of Social Sciences and Interdisciplinary Studies

Program Description

The Environmental Studies program can help students use the resources of the entire University to gain an interdisciplinary understanding of such increasingly serious issues as pollution, wildlife and wilderness preservation, land use, biodiversity loss, resource depletion, energy conservation, and a generally healthful relationship between nature and society. The program offers both a major and a minor and also assists students in constructing special majors and identifying programs and individual courses in various departments that concern themselves with environmental questions.

The major is designed to help students understand environmental issues in their political, social, and scientific context. Because dealing with environmental issues requires an interdisciplinary approach, we emphasize the development of strong writing, research, and quantitative skills and a broad liberal arts perspective.

Environmental Studies students find work primarily in research, analysis, and enforcement activities in state, federal, and local governments. Others work for nonprofit organizations such as The Nature Conservancy, Audubon Society, and Sierra Club. Some work as consultants to private firms, and some graduates become teachers in primary schools, secondary schools, and universities. A few have created their own careers in such areas as organic farming, managing cooperatives, and social action.

Environmental Studies students often go on to professional and graduate schools in such fields as law, ecology, engineering, journalism, economics, public health, political science, public administration, special education, environmental policy, and human ecology.

Degree Programs

BA in Environmental Studies (p. 937)

BS in Environmental Studies (p. 939)

Minor in Environmental Studies (p. 940)

Special Features

- Sacramento, as the state capital, offers excellent opportunities for study and employment. One of several ways to incorporate these opportunities into a student's academic program is through Environmental Studies internship experiences. The Major offers an Internship program to provide career-relevant experience for students and assist their transition to employment. Students find internships with a remarkable array of government agencies, non-government organizations, businesses and community groups.
- The faculty also carries on a field study program to introduce students to as many features as possible of the extraordinarily varied Northern California region.
- Faculty in the Environmental Studies Department represent disciplines including Biology, Ecology, Toxicology, Political Science, Environmental Engineering, among others.

Career Possibilities

Environmental Analyst · Pollution Analyst · Pollution Measurement Technician · Environmental Planner · Naturalist · Environmental Consultant · Energy Conservation Specialist · Environmental Journalist · Environmental Health Specialist · Lobbyist · Environmental Educator · Environmental Economist · Recycling Coordinator · Hazardous Materials Specialist · Legislative Researcher · Water Quality Technician · Park Interpretative Specialist · Transportation Planner · Waste Management Specialist · Levee Management Specialist · Conservation Analyst · Environmental Investigator · Environmental Interpreter · Environmental Resource Planner · Park Ranger · Permitting Officer · Ranger · Habitat Assessment Specialist · Environmental Compliance Officer · Legislative Aide · Air Pollution Specialist · Energy Manager · Game Warden · Wildlife Manager · Hazardous Waste Specialist · Pollution Prevention Specialist · Compliance Program Manager · Community Education Officer · Environmental Health and Safety Officer · Mosquito Control Technician · Public Works Program Manager · Water Conservation Manager · Environmental Impact and Review Assessment · Environmental Scientist · Environmental Policy Analyst

Contact Information

Dr. Wayne Linklater, Department Chair
Donna Leiva, Administrative Support Coordinator I
Amador Hall 554A
(916) 278-6620
FAX (916) 278-7582
Email: envs-sc@csus.edu
www.csus.edu/envs (http://www.csus.edu/envs/)

Faculty

FORAN, JEFFERY

FULTON, JULIAN

GOLDSTENE, JAMES

HEYER, JOHANNA

ISHIKAWA, CATHERINE 'CATHY'

PAPOUCHIS, CHRISTOPHER

POPEJOY, GREGORY

REEDE, JAMES

SAX, TODD

SINGH, AJAY

STEVENS, MICHELLE

ENVS 10. Introduction to Environmental Science. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring, Winter

Course looks at the earth as an ecosystem composed of biological, chemical, and physical systems. Focus is on the interaction of these systems with each other and with human population, technology, and production. Students should acquire the fundamentals of a scientific understanding of the ecological implications of human activities. Specific topics treated within the context of ecosystem analysis include energy flows, nutrient cycles, pollution, resource use, climate changes, species diversity, and population dynamics.

ENVS 10H. Honors Environmental Science. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring, Summer

The earth as an ecosystem composed of biological, chemical, and physical systems. Focus is on the interaction of these systems with each other and with human population, technology, and production. Students should acquire the fundamentals of a scientific understanding of the ecological implications of human activities. Specific topics treated within the context of the ecosystem analysis include energy flows, nutrient cycles, pollution, resource use, climate change, species diversity, and population dynamics. Students read important original research on topics. All students participate in a semester long project that applies the principles of the course to a real environmental issue.

ENVS 11. Environmental Issues and Critical Thinking. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Examines Western cultural values and personal beliefs toward the environment. Teaches critical thinking skills to analyze issues to make informed choices that may impact the earth, its resources and their management as consumers, leaders, professionals and moral agents.

ENVS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Provides students with the opportunity to interact with fellow classmates and the seminar leader to build a community of academic and personal support.

ENVS 110. Contemporary Environmental Issues. 3 Units
Term Typically Offered: Fall, Spring

Examination of a variety of environmental issues with emphasis on the social aspects of the problems and solutions. The class is conducted primarily through discussion, with an unusually high degree of student responsibility. Group and individual projects are designed to involve students in community affairs as well as to give them an opportunity to develop a personal perspective on environmental issues.

ENVS 111. Environmental Ethics. 3 Units
Term Typically Offered: Fall, Spring

Consideration of how human beings should act with regard to the non-human natural world in the context of complex societal needs. Students will use critical thinking skills to integrate insights from the sciences, social sciences, and humanities to make ethical decisions.

ENVS 112. International Environmental Problems. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X. Environmental Studies majors only.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Global perspective on current problems of environmental protection and resource use. Population growth, food production, industrialization, technology and cultural change are considered, with heavy emphasis on the social dynamics of environmental problems. A variety of political views is studied, and an attempt is made to develop a perspective useful to students in personal and political decisions.
Note: PCR/IR students are encouraged to contact the department regarding enrollment into this course.

ENVS 120. Quantitative Methods for Environmental Science. 3 Units
Prerequisite(s): Must be an ENVS major or minor; STAT 1 or instructor permission.
Term Typically Offered: Fall, Spring

Research tools and methods used by environmental professionals including selected statistical procedures, data sources and presentation and interpretation of results. Students will become familiar with the wide range of equipment available to fit their special needs including the computer time-sharing system.

ENVS 121. Field Methods in Environmental Science. 2 Units
Prerequisite(s): Must be an ENVS major or minor
Term Typically Offered: Fall, Spring, Summer

This field course includes the direct observation of human impact on specific environments and examples of mitigation strategies. Students will learn information gathering and data presentation methodologies useful in environmental impact assessment. Lecture three hours per week; one-day and weekend field trips will be arranged.
Note: Course also substitutes for ENVS 175.

Field trip(s) may be required.

ENVS 122. Environmental Impact Analysis: CEQA and NEPA. 3 Units
Term Typically Offered: Fall only

Review of legislative and judicial requirements for environmental impact analysis. Students will be asked to review actual project environmental impact reports, analyze the methods employed, understand the relationship of the report to the planning process, and prepare such a document.
Note: It is recommended that students complete ENVS 128 or have some actual experience with environmental impact documentation before taking this course.

ENVS 124. Social Justice in Interdisciplinary Perspective. 3 Units
Prerequisite(s): Sophomore standing or instructor permission.
Term Typically Offered: Fall, Spring

Examines the nature and forms of social justice and injustice. Addresses key philosophical and theoretical models and debates over the meaning of social justice, using historical and contemporary examples to highlight important concepts and controversies. Faculty from different departments within SSIS, and occasionally from other colleges, will address how their discipline understands and analyzes issues of social justice. Students will be encouraged to critically assess the assumptions of various perspectives on social justice, and to address the relationship of academe and social activism in achieving social justice.
Cross listed as ANTH 130, ID 124, ETHN 124, FACS 124 and SOC 124. Only one may be counted for credit.

ENVS 128. Environment and the Law. 3 Units
Term Typically Offered: Spring only

Introduction to environmental law, including: the evolution of environmental legislation, environmental issues in the court system, environmental regulation and administrative law, and environmental torts. Emphasis is on understanding legal process and the special challenges environmental problems present to the legal system.
Cross Listed: GOVT 128; only one may be counted for credit.

ENVS 130. Environmental Toxicology. 3 Units
Prerequisite(s): CHEM 6A or instructor permission.
Term Typically Offered: Spring only

Focuses on the aspects of toxicology which enable us to study and explore environmental issues concerning human and ecosystem health. It will explore the impact of human activity since World War II in contributing to human disease and ecosystem disruption. Risk perception and communication as it concerns environmental toxicology will also be discussed.

ENVS 135. California Water and Society. 3 Units
Prerequisite(s): ENVS 120 or instructor permission
Term Typically Offered: Fall, Spring

This course provides the historical, scientific, legal, institutional, and economic background needed to understand the social and ecological challenges of providing water for California's growing population, agricultural economy, and other uses- all of which are made more complex by climate change. We will look at past and current debates around cases ranging from local issues on the American River to statewide issues that converge in the Sacramento-San Joaquin Delta. Both physical and social science research skills will be developed.

ENVS 137. Conservation and Society. 3 Units
Prerequisite(s): ENVS 10 and BIO 1
Term Typically Offered: Fall, Spring

Course will introduce students to the interdisciplinary field of conservation biology through the lens of modern society. Students will acquire a basic understanding of the history of the field of conservation, and the values that drive our desire to preserve species and natural systems. Students will learn about conservation challenges, will analyze the scientific and social factors that contribute to addressing those challenges, and will learn to appreciate the diverse perspectives that are vital in modern conservation.

ENVS 138. Introduction to Environmental Sociology. 3 Units
Term Typically Offered: Fall, Spring

The study of human society, the natural environment, and their mutual interactions. Examines environmental sociology at several levels, from the micro level of individual communities to the meso level of government policies to macro theoretical considerations. Analyzes environmental issues in a global context also included.
Cross Listed: SOC 138.

ENVS 140. Energy, Society, and the Environment. 3 Units
Prerequisite(s): Upper division standing
Term Typically Offered: Fall, Spring

This course covers the concepts and tools necessary to understand society's diverse technology and policy choices around energy production and use. Students will apply both quantitative and qualitative methods to analyze opportunities and impacts of energy systems with consideration for environmental sustainability, international development, and social equity. We will consider a range of energy technologies, their historical trajectories, current drivers, and prospects for addressing energy challenges at different scales, from households to the global climate.

ENVS 144. Sustainability Science & Policy. 3 Units
Prerequisite(s): ENVS 10, BIO 1, or instructor permission
Term Typically Offered: Fall, Spring

Examines issues of environmental, social, and economic sustainability in domestic and international contexts. Students will study the science, policy, and implementation of sustainable practices regarding water, food, and energy resources. Students will learn the history of sustainability, definitions of sustainability, how sustainability is measured, and how sustainability applies to urban and rural landscapes.

ENVS 147. Urban Agriculture and Aquaponics. 3 Units
Term Typically Offered: Fall, Spring

This course uses campus initiatives in food and bio-waste recycling, combined with vermiculture and aquaponics, to address larger topics in urban food production. This subject has significance for addressing concerns about food access, security, quality, and even local economic development. The course will include hands-on activities on campus, projects with local urban agriculture organizations, and reports connecting the specifics of the course with core questions in environmental science and policy

ENVS 149. Agroecology. 3 Units
Term Typically Offered: Fall, Spring

Ecological aspects of the production of food and fiber, with emphasis on the sustainability and adequacy of the global food supply to meet the needs of a growing, urbanized population. Covers topics basic to all agricultural systems - soil development, fertility, irrigation, nutrient cycles, crop selection - while contrasting methods developed for large-scale industrial food production with traditional and/or organic farming methods.
Note: Required field trips.

Field trip(s) may be required.

ENVS 151. Restoration Ecology. 3 Units
Term Typically Offered: Spring only

Overview of concepts and practices in restoration ecology, emphasizing the application of ecological principles to restoration design, implementation, and monitoring. Major course topics will include historical ecology, soils and hydrology, plant and animal ecology, exotic species, endangered species concerns, mitigation, monitoring, planning, and assessment as they apply in a restoration context. Students will work in local restoration projects; field trips required.
Field trip(s) may be required.

ENVS 155. Environmental Management and Decision-Making. 3 Units
Prerequisite(s): ENVS 10 or the equivalent, or instructor permission.
Term Typically Offered: Fall only

Course investigates the motivations and barriers to engaging in pro-environmental behaviors. Focus on theories from multiple social and behavioral sciences to understand how individuals form judgments and decisions regarding natural resource and ecosystem management. Specific topics may include principal-agent theory, dual-process theory, multi-criteria decision-making, theory of planned behavior, norm-value-belief, community-based social marketing, and structured decision-making. Students will build skills in stakeholder engagement and science communication.

ENVS 158. Wetlands Ecology. 3 Units
Term Typically Offered: Fall only

Introduces and discusses characteristics of wetland systems; principles of wetland ecology; functions of wetlands; and regulations and permitting process regarding development near and within wetlands. Appropriate for students planning careers in natural resource management. Though not a substitute for professional training in wetlands delineation and functional assessment, students will gain a basis for such assessments. Familiarity with basic principles of chemistry, physics, and biology recommended.
Note: Field trips required.

Field trip(s) may be required.

ENVS 163. Ethnoecology. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall only

Evaluates sustainable management of ecosystems by local indigenous people, using traditional resource management, traditional ecological knowledge and Western science. Familiarizes students with the fields of ethnobiology, ethnoecology, and historical ecology. Students learn about the relationship between people and plants, with a focus on how traditional plant knowledge reflects and is reflected by environmental perceptions.
Note: Field Trip. Required field trip to Chawse Indian Grinding Rocks State Park. Fee Course. $15 per student.

Fee course.
Field trip(s) may be required.

ENVS 165. American Environmental History. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Traces the development of the changing relationship between human society and the natural environment. Focuses on changing attitudes and behaviors toward the environment from the pre-colonial era through the present. Also examines the relationship between industrialization and the technological revolution and nature and examine past and present conservation and environmental movements.
Cross Listed: HIST 165; only one may be counted for credit.

ENVS 171. Environmental Politics and Policy. 3 Units
Prerequisite(s): instructor permission.
Term Typically Offered: Spring only

Politics of human interaction with land, air and water. Political analysis of agenda setting, policy formation and administration (national, state and local) of environmental programs. Focus on contemporary issues such as energy alternatives, management of toxics, land development, and pollution control. Course also substitutes for ENVS 128.
Cross Listed: GOVT 171; only one may be counted for credit.

ENVS 175. Aquatic Pollution Assessment. 3 Units
Prerequisite(s): BIO 160, CHEM 1A or concurrent enrollment; or instructor permission.
Term Typically Offered: Fall, Spring

Examines both the negative and positive impacts that anthropogenic effects have on groundwater, streams, and lakes by utilizing the application of field sampling techniques and laboratory analysis currently used to assess pollution impacts. Introduces the interrelationships among plants, animals and environmental factors within polluted aquatic ecosystems. Emphasizes laboratory and field procedures used in strategies taken to assess and manage these impacts.
Note: Course also substitutes for ENVS 121.

ENVS 186B. Ecological and Environmental Issues Seminar. 1 Unit
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2.
Term Typically Offered: Fall, Spring

Series of at least 10 seminars in ecological and environmental issues. Topics with each seminar will vary each semester.
Note: May be repeated for credit. No more than one unit of ENVS 186B may be counted toward the upper division major requirement. Cross Listed: BIO 186B; only one may be counted for credit.

Credit/No Credit

ENVS 187. Environmental Studies Seminar. 1 Unit
Term Typically Offered: Fall, Spring

Students will participate in the semester-long University seminar and will be exposed to a variety of environmental issues and topics presented by speakers from CSUS, the USGS, government and professional organizations, among many others. Topics include issues such as climate change, water use and conversation, environmental sustainability, environmental policy and decision-making, and many important regional issues.
Credit/No Credit

ENVS 190. Senior Thesis. 3 Units
Prerequisite(s): Instructor permission and completion of all lower and upper division Environmental Studies courses.
Term Typically Offered: Fall, Spring

Explores an environmental problem or issue in great depth. It includes a detailed review of the scientific literature, synthesis, and integration of information from the literature, and evaluation of the information leading to conclusions and recommendations that address the problem or issue. Thesis subjects are chosen by the student, and can be from a myriad perspectives addressed in the Environmental Studies curriculum including scientific, social, political, economic, and cultural issues.

ENVS 195. Environmental Studies Internship. 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience in an approved legislative or administrative office at some level of local, state or federal government, or in a public or private organization that is concerned with the environment. Supervision is provided by the faculty instructor and responsible officials in the work situation.
Note: Open to majors only, subject to instructor permission.

Credit/No Credit

ENVS 195M. Mini Internship. 1 Unit
Term Typically Offered: Fall, Spring

This introductory work experience is designed for sophomores and juniors. The student must complete 45 hours of environmentally related work in a volunteer position with an environmental organization or participation in an environmentally focused event. Supervision is provided by the faculty instructor and responsible officials in the work situation.
Note: Open to majors only, subject to instructor permission.

Credit/No Credit

ENVS 196G. Youth Recreation in Camp Settings. 3 Units
This course examines camp programs in a wide variety of settings, for a variety of populations. Topics cover camp theories, camp management, risk-management, activity planning, inclusive programming, and staff training. Includes an emphasis on leadership, supervision, and organizational development of camp programs. Course uses lecture, field experiences, guest speakers, and service learning.

ENVS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who are competent to carry on individual work. Admission requires permission of the Director and the faculty member who will direct the work.

Credit/No Credit

ENVS 295. Practicum. 2 - 6 Units
Prerequisite(s): Permission of faculty advisor and director.
Term Typically Offered: Fall, Spring

Graduate internship experiences in practical setting.
Note: Open only to graduate students specializing in environmental studies.

Credit/No Credit

ENVS 296. Experimental Offerings in Environmental Studies. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Courses offered on an experimental basis.

ENVS 299. Special Problems: Individual Study. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

BA in Environmental Studies

Units required for Major: 66-69
Total units required for BA: 120

Program Description

The Environmental Studies program can help students use the resources of the entire University to gain an interdisciplinary understanding of such increasingly serious issues as pollution, wildlife and wilderness preservation, land use, biodiversity loss, resource depletion, energy conservation, and a generally healthful relationship between nature and society.

The major is designed to help students understand environmental issues in their political, social, and scientific context. Because dealing with environmental issues requires an interdisciplinary approach, we emphasize the development of strong writing, research, and quantitative skills and a broad liberal arts perspective.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses required for the Environmental Studies B.A. and B.S. majors.

Program Requirements

Code	Title	Units
Required Lower Division Courses (23-24 Units)		
BIO 1	Biodiversity, Evolution and Ecology [1]	5
BIO 2	Cells, Molecules and Genes	4 - 5
or BIO 10	Basic Biological Concepts	
& BIO 15L	Laboratory Investigations in Biology	
CHEM 1A	General Chemistry I [1]	5
or CHEM 6A	Introduction to General Chemistry	
ECON 1B	Introduction to Microeconomic Analysis [1]	3
ENVS 10	Introduction to Environmental Science	3
GEOG 1	Physical Geography: The Distribution of Natural Phenomena [1]	3
or GEOL 10	Physical Geology	
Required Upper Division Courses (30 Units)		
BIO 160	General Ecology	3
ENVS 111	Environmental Ethics	3
ENVS 112	International Environmental Problems [1]	3
ENVS 120	Quantitative Methods for Environmental Science	3
ENVS 121	Field Methods in Environmental Science	2
ENVS 122	Environmental Impact Analysis: CEQA and NEPA	3
ENVS/GOVT 128	Environment and the Law	3
ENVS/GOVT 171	Environmental Politics and Policy	3
ENVS 187	Environmental Studies Seminar	1
ENVS 190	Senior Thesis	3
ENVS 195	Environmental Studies Internship	3
Environmental Science Electives (6 Units)		
Select two of the following courses:		6
ENVS 110	Contemporary Environmental Issues	
ENVS 130	Environmental Toxicology	
ENVS 135	California Water and Society	
ENVS 137	Conservation and Society	
ENVS 140	Energy, Society, and the Environment	
ENVS 144	Sustainability Science & Policy	
ENVS 147	Urban Agriculture and Aquaponics	
ENVS 149	Agroecology	
ENVS 151	Restoration Ecology	
ENVS 158	Wetlands Ecology	
ENVS 163	Ethnoecology [1]	
Interdisciplinary Electives (6 Units)		
Select two of the following courses:		6
ECON 110	Cost Benefit Analysis	
ECON 123	Resource Economics	
ECON 162	Energy Economics	
ENVS 124	Social Justice in Interdisciplinary Perspective	
ENVS/HIST 165	American Environmental History	
ENVS/SOC 138	Introduction to Environmental Sociology	
GEOG 147	Urban Geography	
GEOG 148	Urban and Regional Planning	
GEOG 149	Transportation Geography	
GEOG 161	California's Water Resources	
GOVT 180		
RPTA 148	Experiential Education in Outdoor Recreation Settings	
or RPTA 153	Environmental Interpretation	
Other Electives (permission of instructor) (1-3 Units)		
ENVS 199	Special Problems	1 - 3
Total Units		66-69

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2,3]		0
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		33

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department recommends taking ENVS 163 in Program Requirements - Environmental Science Electives to meet Area B5.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BS in Environmental Studies

Units required for Major: 67-69
Total units required for BS: 120

Program Description

The Environmental Studies program can help students use the resources of the entire University to gain an interdisciplinary understanding of such increasingly serious issues as pollution, wildlife and wilderness preservation, land use, biodiversity loss, resource depletion, energy conservation, and a generally healthful relationship between nature and society.

The major is designed to help students understand environmental issues in their political, social, and scientific context. Because dealing with environmental issues requires an interdisciplinary approach, we emphasize the development of strong writing, research, and quantitative skills and a broad liberal arts perspective.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses required for the Environmental Studies B.A. and B.S. majors.

Program Requirements

Code	Title	Units
Required Lower Division Courses (24 Units)		
BIO 1	Biodiversity, Evolution and Ecology [1]	5
BIO 2	Cells, Molecules and Genes	5
or BIO 10 & BIO 15L	Basic Biological Concepts Laboratory Investigations in Biology	
CHEM 1A	General Chemistry I [1]	5
or CHEM 6A	Introduction to General Chemistry	
ECON 1B	Introduction to Microeconomic Analysis [1]	3
ENVS 10	Introduction to Environmental Science	3
GEOG 1	Physical Geography: The Distribution of Natural Phenomena [1]	3
or GEOL 10	Physical Geology	
Required Upper Division Courses (21 Units)		
BIO 160	General Ecology	3
ENVS 111	Environmental Ethics	3
ENVS 112	International Environmental Problems [1]	3
ENVS 120	Quantitative Methods for Environmental Science	3
ENVS 121	Field Methods in Environmental Science	2
ENVS 187	Environmental Studies Seminar	1
ENVS 190	Senior Thesis	3
ENVS 195	Environmental Studies Internship	3
Policy Electives (3 Units)		
Select one of the following courses:		3
ENVS 122	Environmental Impact Analysis: CEQA and NEPA	
ENVS/POLS 128	Environment and the Law	
ENVS/POLS 171	Environmental Politics and Policy	
Environmental Science Electives (9 Units)		
Select three of the following courses:		9
ENVS 110	Contemporary Environmental Issues	
ENVS 130	Environmental Toxicology	
ENVS 135	California Water and Society	
ENVS 137	Conservation and Society	
ENVS 144	Sustainability Science & Policy	
ENVS 140	Energy, Society, and the Environment	
ENVS 147	Urban Agriculture and Aquaponics	
ENVS 149	Agroecology	
ENVS 151	Restoration Ecology	
ENVS 158	Wetlands Ecology	
Interdisciplinary Electives (9 Units)		
Select three of the following courses:		9
BIO 103	Plants and Civilization	
BIO 112	Plant Taxonomy	
BIO 118	Natural Resource Conservation	
BIO 157	General Entomology	
BIO 162	Ichthyology: The Study of Fishes	
BIO 164	Amphibians and Reptiles: An Introduction to Herpetology	
BIO 166	Ornithology	
BIO 168	Mammalogy	
BIO 169	Animal Behavior	
BIO 173	Principles of Fisheries Biology	
BIO 179	Conservation Biology & Wildlife Management	

ENVS/SOC 138	Introduction to Environmental Sociology	
ENVS 163	Ethnoecology	
GEOG 107	Remote Sensing	
GEOG 109	Geographic Information Systems	
GEOG 110	Advanced Geographic Information Systems	
GEOG 111	Elements Of Meteorology	
GEOG 113	Climate	
GEOG 115	Biogeography	
GEOG 116	Global Climate Change	
GEOG 118	Earth Transformed	
GEOG 161	California's Water Resources	
GEOL 127	Hydrogeology	
GEOL 130	Oceanography	
GEOL 140	Geology and the Environment	
RPTA 153	Environmental Interpretation	
Other Courses (require instructor permission) (1-3 Units)		
ENVS 199	Special Problems	1 - 3
Total Units		67-69

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]		0
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		33

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Minor in Environmental Studies

Units required for Minor: 25

Program Description

The Environmental Studies program can help students use the resources of the entire University to gain an interdisciplinary understanding of such increasingly serious issues as pollution, wildlife and wilderness preservation, land use, biodiversity loss, resource depletion, energy conservation, and a generally healthful relationship between nature and society.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses required for the Environmental Studies minor.

Program Requirements

Code	Title	Units
BIO 10	Basic Biological Concepts	3
ECON 1B	Introduction to Microeconomic Analysis	3
ENVS 10	Introduction to Environmental Science	3
ENVS 111	Environmental Ethics	3
ENVS 187	Environmental Studies Seminar	1
Select one of the following:		3
ENVS 112	International Environmental Problems	
ENVS 122	Environmental Impact Analysis: CEQA and NEPA	
ENVS/GOVT 128	Environment and the Law	
ENVS/GOVT 171	Environmental Politics and Policy	
Select one of the following:		3
ENVS 110	Contemporary Environmental Issues	
ENVS 130	Environmental Toxicology	
ENVS 144	Sustainability Science & Policy	
ENVS 149	Agroecology	
ENVS 151	Restoration Ecology	
ENVS 158	Wetlands Ecology	
ENVS 163	Ethnoecology	
Select one of the following:		3
BIO 160	General Ecology	
ENVS 120	Quantitative Methods for Environmental Science	
ENVS 121	Field Methods in Environmental Science	
GEOG 109	Geographic Information Systems	
GEOG 113	Climate	
GEOL 10	Physical Geology	
Select one of the following:		3
BIO 103	Plants and Civilization	
BIO 112	Plant Taxonomy	
BIO 118	Natural Resource Conservation	
BIO 157	General Entomology	
BIO 162	Ichthyology: The Study of Fishes	
BIO 164	Amphibians and Reptiles: An Introduction to Herpetology	
BIO 166	Ornithology	
BIO 168	Mammalogy	
BIO 169	Animal Behavior	
BIO 173	Principles of Fisheries Biology	
BIO 179	Conservation Biology & Wildlife Management	
ECON 110	Cost Benefit Analysis	
ECON 123	Resource Economics	
ECON 162	Energy Economics	
ENVS 124	Social Justice in Interdisciplinary Perspective	
ENVS/SOC 138	Introduction to Environmental Sociology	
ENVS/HIST 165	American Environmental History	
ENVS 195	Environmental Studies Internship	
ENVS 199	Special Problems	
GEOG 107	Remote Sensing	
GEOG 109	Geographic Information Systems	
GEOG 111	Elements Of Meteorology	
GEOG 113	Climate	
GEOG 115	Biogeography	
GEOG 116	Global Climate Change	
GEOG 118	Earth Transformed	
GEOG 147	Urban Geography	
GEOG 148	Urban and Regional Planning	
GEOG 161	California's Water Resources	
GEOL 127	Hydrogeology	
GEOL 130	Oceanography	
GEOL 140	Geology and the Environment	
GOVT 180		
RPTA 148	Experiential Education in Outdoor Recreation Settings	
or RPTA 153	Environmental Interpretation	
Total Units		25

Ethnic Studies

College of Social Sciences and Interdisciplinary Studies

Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicanx-Latinx, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors. Program advising and other information can be obtained from the Ethnic Studies Office.

Degree Programs

BA in Ethnic Studies (Asian American Studies) (p. 948)

BA in Ethnics Studies (Chicana/o Studies) (p. 949)

BA in Ethnic Studies (General Studies) (p. 951)

BA in Ethnic Studies (Native-American Studies) (p. 952)

BA in Ethnic Studies (Pan African Studies) (p. 954)

BA in Ethnic Studies (Teachers in Bilingual Education) (p. 955)

BA in Ethnic Studies (Teachers in Urban Settings) (p. 956)

Minor in Ethnic Studies (p. 959)

Minor in Asian American Studies (p. 958)

Minor in Chicanx and Latinx Studies (http://catalog.csus.edu/colleges/social-sciences-interdisciplinary-studies/ethnic-studies/minor-in-chicana-o-latina-o-studies/)

Minor in Native American Studies (p. 960)

Certificate in Pan African Studies (p. 958)

Special Features

- A student who majors in Ethnic Studies will not only have a strong background in one of the seven areas of specializations but will also gain broad background knowledge of other ethnic groups. Each program area develops its major focus in coordination with other program areas.
- Ethnic Studies encourages students to actively participate in community service learning projects. These projects afford students such opportunities as working directly with community-based organizations and/or agencies, local high schools, and/or middle schools.
- Ethnic Studies regularly sponsors cultural programs providing an opportunity for learning more about the experiences of the social groups framing the content of the Ethnic Studies program.

Career Possibilities

The rich educational experience of Ethnic Studies majors and minors are excellent preparation for careers and professions in the public and private sectors, as well as graduate school. Ethnic Studies majors and minors enter government service, politics, community/social service, business, public school teaching/administration, higher education teaching/administration, social work, counseling, law, journalism, and much more.

Contact Information

Dr. Annette Reed, Department Chair
Rena Horse, Administrative Support Coordinator
Amador Hall 463
(916) 278-6646
www.csus.edu/ethn (http://www.csus.edu/ethn/)

Faculty

BAKER, BRIAN

CAMERON-WEDDING, RITA

FIGUEROA, JULIE

FONG, TIMOTHY

GREEN, RICKY

MARK, GREGORY

MOORE, ANDREA

MOSUPYOE, BOATAMO

RAMIREZ, ELVIA

REED, ANNETTE

VARGAS, MARIA

ETHN 1A. Elementary Swahili. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the language of Swahili speaking people. Emphasis is on developing vocabulary and writing skills. Attention will be given to understanding the relationship of language to culture.

ETHN 1B. Elementary Swahili. 3 Units
Prerequisite(s): ETHN 1A or its equivalent; or instructor permission.
Term Typically Offered: Fall, Spring

Continuation of ETHN 1A with more emphasis on developing reading and listening skills along with further developing writing abilities. Provides deeper knowledge of the customs, traditions and experiences of Swahili speaking people.

ETHN 10. Africa: Myths and Realities. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to African Studies. Examines the most common myths found in both popular and academic literature about Africa and its people.

ETHN 11. Introduction to Ethnic Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Introduces the diverse institutional, cultural, and historical issues relating to the past and present life circumstances of Asian Americans, Mexican Americans, Black Americans, and Native Americans. Designed to introduce students to information presented in upper division courses with ethnic studies content.

ETHN 11H. Introduction to Ethnic Studies (Honors). 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Introduces the diverse institutional, cultural, and historical issues relating to the past and present life circumstances of Asian Americans, Mexican Americans, Black Americans, and Native Americans. Focuses may include leadership, identity development, problem solving skills, community organizing and empowerment. Designed to introduce students to information presented in upper division courses with ethnic studies content.
Note: Fulfills the General Education requirements of Area D1A (Foundations in the Social and Behavioral Sciences) as well as the General Education Honors Program.

ETHN 14. Introduction to Asian American Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to the basic concepts, theoretical perspectives, and research methodologies in comparison to other social science disciplines.
The intersection of class, race/ethnicity, and gender of various Asian American and non-Asian American groups will be explored from a socio-historical perspective.

ETHN 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills.
Note: Only open to students admitted to EOP Learning Communities Program.

ETHN 30. Introduction to Chicano/Latino Studies. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring

Introduction to exploring the Chicano/Latino experience in the U.S. An overview of the diverse and multiple experiences of people of Mexico, Cuba, Puerto Rico, Dominican Republic, Central and South America. From a socio-historical perspective, the intersections of class, race/ethnicity, and gender will be explored.

ETHN 50. Native American Religion and Philosophy. 3 Units
Term Typically Offered: Spring only

In-depth study into the principles of Native American religion and philosophical thought and the resulting impact of European culture upon the Native American societies.

ETHN 53. Introduction to Native American Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Broad overview to the field of Native American Studies, including history, sovereignty, popular imagery, economic development, literature, philosophy, religion, urbanization, gender, social issues, and cultures of native peoples. Introduction to Native American Studies; recognizes intra-tribal, trans-national, and various historical, cultural, and political relationships, and issues through an interdisciplinary approach. The primary focus will be post 1900.

ETHN 70. Introduction to Pan African Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Introduction to Pan African Studies. It is intended to introduce students to the context from which Pan African Studies arose, including the Western intellectual tradition, and to consider the substantive objections to Pan African Studies as a legitimate academic discipline. It is intended to show humanities and social science emphases of the discipline, and the interdisciplinary character of the discipline as a whole. Upon completion, students should have a broad exposure to the subject matter of the discipline, an acute appreciation of some of its philosophical concerns, a recognition of some of the principal methodologies employed by its scholars, some familiarity with major scholars in the discipline, and the ability to explore these subjects independently.

ETHN 71. Leadership in the African Diaspora. 3 Units
Term Typically Offered: Spring only

Provides students with an understanding of the unique contours of leadership throughout the African Diaspora through an interdisciplinary approach to understanding particular problems, necessities and styles of leadership. Examines leaders and leadership roles within the African Diaspora with an emphasis on a variety of positions and contexts in the areas of politics, religion, art, and education, including the international, national, and local community (grassroots) arenas.

ETHN 72. Black Images in Popular Culture. 3 Units
Term Typically Offered: Fall, Spring

This course is designed as a survey of the Black image within popular culture. Students will interrogate the roots of African American stereotypes within North. American culture. Through an understanding of this history, we will assess how these stereotypes have evolved over time and the role they have played in constructing and positioning African Americans in American society. Students examine the ways in which African Americans actively construct images of themselves for a variety of political and social purposes.

ETHN 94. CAMP Transition and Problem Solving. 3 Units
Term Typically Offered: Fall, Spring

Designed for CAMP students new to University life, form and functions. The three hour lecture/discussions per week are focused on assisting students with making a successful transition to the University.
Note: May be repeated once for credit.

Credit/No Credit

ETHN 96B. Contemporary Issues and Social Change. 3 Units
Term Typically Offered: Fall, Spring

Generation after generation, university students have been key constituents in movements for social change. From public demonstrations to research studies, colleges and universities afford countless opportunities for students to advocate for a better world. This course explores how students can utilize university resources to explore interests and concerns, hone academic skills and contribute to social change.

ETHN 98. Co-Curricular Activities. 1 - 3 Units
Term Typically Offered: Fall, Spring

Co-curricular activities related to the subject matter and intellectual concerns in Ethnic Studies.
Note: Recommended for students new to the university experience and students having completed fewer than 45 units of course work. May be repeated twice for total credits not to exceed 6 units.

Credit/No Credit

ETHN 100. Ethnic America. **3 Units**
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring, Summer

Through an interdisciplinary approach, introduces the four major American ethnic groups - Black, American Indian, Chicano, Asian American. Focuses on themes common to all four groups (racism, economic and political oppression) and demonstrates the varied contributions of each culture to American social and economic life.

ETHN 110. The Asian American Experience. **3 Units**
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Survey of the experiences of various Asian groups in the U.S. from the mid-nineteenth century to present. The historical forces affecting the immigration and settlement patterns of Chinese, Japanese, Filipinos, Koreans, Asian Indians and Southeast Asians (Vietnamese, Cambodians, Laotians) will be compared and contrasted. Students will analyze the problems resulting from limited access to the social, political, and economic institutions of U.S. society.

ETHN 111. Southeast Asians in the US. **3 Units**
Term Typically Offered: Spring only

Examine several issues and factors shaping the experiences of recent immigrant groups (Vietnamese, Mien, Hmong, Cambodians, Laotians) from Southeast Asia to the U.S. Focuses on the dynamic relationship between ethnicity, minority assignment and social integration as these effect the experiences of these immigrant groups.

ETHN 112. Contemporary Asian American Issues. **3 Units**
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines several important social issues such as emerging communities, education, employment and occupations, anti-Asian violence, media images and stereotypes, families and identities, and political empowerment shaping the contemporary experiences of diverse Asian American groups.

ETHN 113. Asian American Communities. **3 Units**
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of the historical and contemporary experiences of various Asian American communities through active investigation. The concepts, methods, and theories commonly utilized in community research will be covered.

ETHN 114. Asian Americans and Globalization. **3 Units**
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of the Asian American immigration within the context of the larger Asian global migration. Emphasis will be placed on the period from the 16th century to the contemporary Asian global migration. A critical examination of the perspectives on the Pacific region and how the economic, social, political and historical forces affected migration and the formation of Asian global communities.

ETHN 115. Biracial and Multiracial Identity in the US. **3 Units**
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Examination of biracial/multiracial populations, their social histories, social experiences and social identities within various sociological and social psychological theoretical frameworks. An exploration of the relationship biracial/multiracial groups have had, and continue to have, with the larger white majority and monoracially identified minorities.

ETHN 116. Asian American Politics and Public Policy. **3 Units**
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Critical examination of the historical and contemporary political experiences of Asian Americans and their pursuits of immigration rights, citizenship, political identity, equality, freedom, and incorporation into the U.S. political system.

ETHN 117. Black Political Thought. **3 Units**
Term Typically Offered: Spring only

To systematically and analytically introduce the predominant political trends and concepts presently entertained and harbored in the Black Community. A necessary adjunct to this dialogue is the racist theme in American society since on balance this is the matrix out of which the political alternatives and concepts grew.
Cross Listed: GOVT 117; only one may be counted for credit.

ETHN 118. Asian American Women. **3 Units**
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Using an interdisciplinary approach, course offers a broad introduction to the principle values and traditions shaping Asian American women's lives in the U.S. Examines cultural diversity, gender inequality and conflicts between traditions and social practices through critical analysis of literature, film and cultural theories as expressions of identity. Topics covered include: cultural heritage and philosophies, intergenerational conflict, transnationalism, gender roles and socio-economic practices. Provides comprehensive understanding of principle factors governing Asian American women's lives at the nexus of Asian and American cultures.
Cross-listed: WOMS 118.

ETHN 119. The Filipino American Experience. **3 Units**
Term Typically Offered: Fall, Spring

Overview of the Filipino American experience from the 16th century to the present. Immigration and settlement of Filipinos in the U.S. will be critically examined within the context of historical, social, economic, and political forces in American society. How the Filipino labor market status, race, class, and sex/gender relations affected the evolution and formation of Asian American communities will be critically examined.

ETHN 121. Hmong American Experience. **3 Units**
Term Typically Offered: Fall only

Explores the historical and cultural background of Hmong Americans. Major emphasis is on the many experiences of the Hmong Americans including the social, economic, and political conditions that prompted their migration from Laos to the U.S. Explores the complex patterns of Hmong American acculturation in relation with other Asian and non-Asian immigrant groups.

ETHN 122. Sikh Americans and Globalization. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Examines the history and migration of Sikhs throughout the world, including the United States. Topics include the origin of Sikhism, Sikh history/religion/culture/social institutions and social relations, direct and secondary migration, race and ethnic relations, second-generation identity issues, and global diaspora/transnationalism.

ETHN 130. Chicano/Mexican-American Experience. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Transmits knowledge and understanding of how racism confronts and divides American society. Attention will be given to the effects of racism on the experiences of Chicanos/Mexican Americans in American society.

ETHN 131. La Raza Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Ethnohistorical analysis of La Raza Cosmica designed to convey crosscultural knowledge and understanding of peoples from Mexico, Cuba, Puerto Rico and Central America. Includes a comparative analysis of ethnic identity and a survey of socio-cultural, political and economic changes which have influenced U.S./Latin American policy and immigration patterns of Latinos to the U.S.

ETHN 132. La Mujer Chicana. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Critical analysis of the cultural influence that the family, community, religion, economic status and peers play upon the decisions, the values and roles held by Chicanas. An examination of the processes which have resulted in the change of attitudes, values and roles of the contemporary Chicana.

ETHN 133. Crosscultural Aging in America. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Examines aging crossculturally among ethnic groups in America. Emphasis will be placed on a review of the current literature on aging and ethnicity. Also examines changing roles and values in Black, Hispanic, Asian and Native American families.

ETHN 136. US Mexican Border Relations. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Contemporary issues affecting the daily lives of people living in the U.S. - Mexico Borderlands. Theories, gender issues, political, economic and social relationships on both sides of the border will be examined.

ETHN 137. Race and Ethnicity in Latin America and Caribbean. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Socio-economic, historical and contemporary issues affecting the various peoples living in the Latin America and the Caribbean. We will examine the intersection of race and ethnicity as well as class, gender, and identity, with attention paid to the contributions and presence of Asians, Africans, Europeans, and Indigenous peoples.

ETHN 140. Native American Experience. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Advanced course in American Indian history, political and social relations, with emphasis upon current movements and problems of Native American life.

ETHN 141. Politics of the African Diaspora. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall only

Examines the social, political, cultural, and economic factors which have been important to the African diaspora. Examines how African people have responded to those factors, both in terms of formal, political thought, and in terms of political movements and political institutions. Examines thought and proactive, comparability to Africa, U.S., Caribbean, Central and South America.
Cross Listed: GOVT 141; only one may be counted for credit.

ETHN 142. Native American Tribal Governments. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines the regulatory powers that American Indian tribes possess over their peoples and territories. Students will acquire an understanding of tribal governmental history, internal affairs, jurisdictional conflicts, government relations, federal Indian public policy and economic development. The political aspects of tribal government administration and the emergence of self-governance as a foundation for self-determination, development and sustainability will be explored.

ETHN 143. American Indians, Film and Popular Culture. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Students will examine various ways American Indians are imagined by popular culture through film, including drama, comedy and documentary. Beyond identifying and analyzing images of Indians as well as myths about their historical and contemporary circumstances, students will be challenged to investigate and understand the tenuous relationship between fact and fiction in popular culture.

ETHN 145. Native Voice, Memory, and Biography. **3 Units**
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Through the genre of biography and autobiography, students will examine the relevance of Native voice and memory in reference to the development of identity, cultural transformation, indigenous knowledge, political activism, and historical consciousness. Students will analyze the political, economic and cultural contexts in which Native voices and memories emerge.

ETHN 150. Native American Oral Tradition and Storytelling. **3 Units**
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Study of how Native American oral tradition and storytelling affect the experience of tribal expression. Examines the foundation of this tradition through an analysis and comparison of traditional and contemporary forms.

ETHN 151. Native American Women. **3 Units**
Term Typically Offered: Fall only

Examination of the traditional, non-traditional, and contemporary roles of Native American women. The relationship of these roles to both Indian and non-Indian societies. An exploration of Native women's issues through histories, literatures, and oral traditions, focusing on Native American women's perspectives. Colonization has drastically impacted native women and the lives of their families, nations and communities. Resistance and de-colonization efforts by Native women will be illuminated and analyzed.

ETHN 152. American Indians, Sovereignty and US Laws. **3 Units**
Term Typically Offered: Spring only

Examines the legal history developed between American Indians and Euro-Americans. Includes an introduction to events, circumstances, and relationships that developed social and legal concepts. There will be an examination of constitutional principles, laws and United State's policies from the early 1800's to the present and the impacts of these doctrines on American Indian sovereign powers. The students will acquire a basic understanding of the sources of political conflict in contemporary American Indian communities and American society.

ETHN 155. Genocide and Holocaust Studies. **3 Units**
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Examines genocide cases, such as the Armenian genocide, the Jewish Holocaust, the genocide of Roma, the Cambodian 'Killing Fields', genocide in East Timor, ethnic cleansing in Bosnia, the genocide of the Tutsi in Rwanda and genocide in the Darfur region of Sudan, as well as the genocide of Native Americans, and other indigenous peoples. Addresses causes of, and responses to, genocide around the world, especially in Africa, Asia and Latin America. This phenomenon is examined historically, descriptively, comparatively and theoretically.

ETHN 156. Indigenous People. **3 Units**
Term Typically Offered: Fall, Spring

Common existential experiences of indigenous people all over the world namely the Batwa and Pygmies in Central Africa, the Khoisan of Southern Africa, the Berber in Northern Africa, the Sami in Northern Europe, the Basque in France and Spain, the Hawaiians in the Pacific, the Ainu of Japan, the Aborigines in Australia, and Native Americans in the Americas.

ETHN 161. Chicano/Latino Politics and Public Policy. **3 Units**
Term Typically Offered: Fall, Spring

Explores the historical and contemporary development of Chicano/Latino political activity in the United States. Will review essential components of the U.S. political system and examines relevant theories and concepts that have impacted public policy debate related to education, employment, health, housing, immigration, and income inequity. Primarily focuses on the political history and present day circumstances of the three largest Latino groups, Mexican Americans, Puerto Ricans, and Cuban Americans.

ETHN 166. American Indigenous Families: Issues and Perspectives. **3 Units**
Term Typically Offered: Fall, Spring

Application of research and theory specific to Latino/Chicano and American Indian families; strategies for applying this knowledge to areas of service, therapy, policy, and education. Lecture/discussion, internet enhancement.
Cross Listed: FACS 166A; only one may be counted for credit.

ETHN 167. Asian American Families: Issues and Perspectives. **3 Units**
Term Typically Offered: Fall, Spring

Family is an adaptable and changing institution of society. Research and theory on Asian American families will be highlighted with an emphasis on applying the information to areas of service, therapy, policy, and education. Experiences of various Asian groups in the U. S. will be compared.
Cross Listed: FACS 166B; only one may be counted for credit.

ETHN 170. Pan African Studies. **3 Units**
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Investigation into the subjective aspects of Pan African Studies (Black Studies). Covers such topical areas as the struggle by Black Americans for education, the genesis of the Black Studies movement, Black culture, institutional change, etc. The very nature of the course permits the coverage of a broad range of subject matter. Students are encouraged to take specific courses offered by the Pan African Studies program for more extensive investigation.

ETHN 171. African Religions and Philosophies. **3 Units**
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Study of the African's concept of God with particular emphasis on His works, His relationship to His creations, and His worship. Also covers the concepts of evil, ethics, justice and various metaphysical ideas.

ETHN 172. Black Women In America. 3 Units
Term Typically Offered: Spring only

Examines the historical and social forces that shape the lives of Black women. Examines the Black woman's role in the family, community, work force and society in general.

ETHN 173. The Black Family in the United States. 3 Units
Term Typically Offered: Fall, Spring

Using the interdisciplinary approach, several institutional factors affecting the structure, evolution, and function of the Black Family unit in the U.S. will be studied. Permits a broad, yet systematic, examination of the Black Family in order to understand the several dynamics affecting the Black Family in particular and Black Americans in general.

ETHN 177. Topics In African Studies. 3 Units
Term Typically Offered: Fall, Spring

Special topics in African studies.

ETHN 177A. Genocide and Human Rights: Africa. 3 Units
This course focuses on the human rights abuses and Genocides that occurred in colonial and post-colonial Africa. It explores Genocide in Rwanda, Darfur, Namibia, and mass killings in Congo. It examines Campaigns of cultural Genocide, ideological pressure, and the involvement of former colonial powers in mass killings. Different approaches of conflict resolution such as the South African Truth and Reconciliation model will be examined. Causes and conditions of Genocide will be interpreted through interdisciplinary literature.

ETHN 179. Black Music and Black Consciousness. 3 Units
Term Typically Offered: Fall only

Provides students with an understanding of the essential role Black music assumes in the development of people of African descent throughout the Black Diaspora. Major topics include the historical development of Black music, the role of music in Black resistance and other forms of political behavior, the economic exploitation of Black music and the Black musician and the influence of globalization.

ETHN 180A. Forms of African-American Poetry. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Focuses on four or more African-American poets, representing a historical succession of literary periods.

ETHN 180B. Forms African-Am Fiction. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Focuses on four or more African-American writers of fiction, surveying texts representing a historical succession of literary periods.

ETHN 181. Cinematic Representations of Pan African Identities. 3 Units

This course is designed as an intensive survey of African American cinema that engages questions of history, culture, politics and the overall function of race and representation in American society. Our focus in this class is to understand Pan African filmmakers and their respective films. We will focus on cultural factors intrinsic to Pan African societies and how cinema fits into this context, as well as how issues of gender, sexuality and class impact the films.

ETHN 182. Protest in Hip Hop. 3 Units
This course is designed to be an intensive survey of the evolution of hip hop as a form of social protest that developed into a global cultural movement. The course draws parallels from hip hop's historical function with past and present U.S. social movements advocating for social justice, including the recent #BlackLivesMatter movement. Students will also examine cultural studies theoretical concepts analyzing mainstream's exploitation and marginalization of race, class, gender and sexuality representations in hip hop.

ETHN 194. Research in Ethnic Studies. 3 Units
Prerequisite(s): One upper-division Ethnic Studies course.
Term Typically Offered: Fall, Spring

Designed to provide students with contemporary theoretical knowledge and practical skills for conducting research in the Asian American, Black American, Chicano, and Native American communities. Methodology which addresses issues and research perspectives distinctly germane to researching a targeted community is examined.

ETHN 195A. Ethnic Studies Fieldwork. 1 Unit
Prerequisite(s): Ethnic Studies majors only
Corequisite(s): ETHN 195B
Term Typically Offered: Spring only

Allow students, with faculty supervision, to work closely with the ethnic minority communities. Students may work with a community agency, community organization, or other site with instructor approval.
Credit/No Credit

ETHN 195B. Ethnic Studies Seminar. 2 Units
Prerequisite(s): Ethnic Studies majors only
Corequisite(s): ETHN 195A
Term Typically Offered: Spring only

Seminar discussions designed to synthesize and assess knowledge in Ethnic Studies courses applied to fieldwork experiences.

ETHN 198. Co-Curricular Activities. 1 - 3 Units
Term Typically Offered: Fall, Spring

Co-curricular activities related to the subject matter and intellectual concerns in Ethnic Studies. For example, students may earn ETHN 198 credits by participating in Ethnic Studies classes as tutors and/or section or discussion leaders; teaching as voluntary instructors or tutors in courses offered by community organizations.
Note: May be repeated twice for total credits not to exceed 6 units.

Credit/No Credit

ETHN 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Admission requires approval of the faculty member under whom the individual work is to be conducted, the appropriate program director and the Chair of Ethnic Studies.
Credit/No Credit

ETHN 203. Contemporary Ethnic Studies Issues. 3 Units
Prerequisite(s): MA Education (Multicultural Education) Students only.
Term Typically Offered: Fall only

Examines important social issues that shape the contemporary experience of African Americans, Asian Americans, Latinx/Chicanx, and Native Americans. Social issues such as: 1) Discrimination and violence, 2) Economic inequality (employment, income, wealth, retirement), 3) Educational challenges, and 4) Global context of race and class inequality.

ETHN 204. Foundations & Theories. 3 Units
Prerequisite(s): MA in Education (Multicultural Education) students only.
Term Typically Offered: Spring only

Foundations and theories in Ethnic Studies, identifies, analyzes, and critically examines the experience of African Americans, Asian Americans, Latinx/Chicanx, and Native Americans.
Note: This course is a lecture/discussion that is 45 hours, 3-unit course offered in eight weeks (including several Saturdays).

ETHN 299. Special Problems/Individual Study. 3 Units
Term Typically Offered: Fall, Spring

Open to classified and unclassified graduate students. Allow qualified students to explore topics, issues, and subjects pertinent to ethnic groups in the U.S.
Credit/No Credit

BA in Ethnic Studies (Asian American Studies)

Units required for Major: 36
Total units required for BA: 120

Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

Code	Title	Units
Required Lower Division Course (3 Units)		
ETHN 11	Introduction to Ethnic Studies [1]	3
Required Upper Division Courses (21 Units)		
ETHN 100	Ethnic America [1]	3
ETHN 110	The Asian American Experience	3
ETHN 130	Chicano/Mexican-American Experience	3
or ETHN 131	La Raza Studies	
ETHN 140	Native American Experience	3
ETHN 170	Pan African Studies	3
ETHN 194	Research in Ethnic Studies	3
ETHN 195A	Ethnic Studies Fieldwork	1
ETHN 195B	Ethnic Studies Seminar	2
Concentration Electives (12 Units) [2]		
Select one of the following Concentrations:		12
Asian American Studies		
Chicana/o Studies		
General		
Native-American Studies		
Pan African Studies		
Teachers in Bilingual Education		
Teachers in Urban Settings		
Total Units		36

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Four upper division Ethnic Studies and/or cross-listed courses selected with advisor approval to provide the opportunity for social, cultural and historical study; should also apply to the area of concentration; see note below.
   Notes:
   - A concentration must be declared in Asian American Studies, Chicana/o Studies, Education (Teachers in Urban Settings or Teachers in Bilingual Education), Native American Studies, Pan African Studies, or General Ethnic Studies. The concentration includes 12 units of electives.

Concentration in Asian American Studies (12 units)

Code	Title	Units
Concentration Requirements (12 Units)		
Select four courses from the following:		12
ETHN 111	Southeast Asians in the US	
ETHN 112	Contemporary Asian American Issues	
ETHN 113	Asian American Communities	
ETHN 114	Asian Americans and Globalization	
ETHN 115	Biracial and Multiracial Identity in the US	
ETHN 116	Asian American Politics and Public Policy	
ETHN 118	Asian American Women	
ETHN 119	The Filipino American Experience	
ETHN 121	Hmong American Experience	
ETHN 122	Sikh Americans and Globalization	
ETHN 167	Asian American Families: Issues and Perspectives	
Total Units		12

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3

A2 - Written Communication	3
A3 - Critical Thinking	3
Area B: Physical Universe and Its Life Forms (13 Units)	
B1 - Physical Science	3
B2 - Life Forms	3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)	1
B4 - Math Concepts	3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.	3
Area C: Arts and Humanities (12 Units)	
C1 - Arts	3
C2 - Humanities	3
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (6 Units)	
Area D Course	3
Area D Course	3
Area D Course [2]	0
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]	0
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Ethnic Studies (Chicana/o Studies)

Units required for Major: 36
Total units required for BA: 120

Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

Code	Title	Units
Required Lower Division Course (3 Units)		
ETHN 11	Introduction to Ethnic Studies [1]	3
Required Upper Division Courses (21 Units)		
ETHN 100	Ethnic America [1]	3
ETHN 110	The Asian American Experience	3
ETHN 130	Chicano/Mexican-American Experience	3
or ETHN 131	La Raza Studies	
ETHN 140	Native American Experience	3
ETHN 170	Pan African Studies	3
ETHN 194	Research in Ethnic Studies	3
ETHN 195A	Ethnic Studies Fieldwork	1
ETHN 195B	Ethnic Studies Seminar	2
Concentration Electives (12 Units) [2]		
Select one of the following Concentrations:		12
Asian American Studies		
Chicana/o Studies		
General		
Native-American Studies		

Pan African Studies	
Teachers in Bilingual Education	
Teachers in Urban Settings	
Total Units	36

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Four upper division Ethnic Studies and/or cross-listed courses selected with advisor approval to provide the opportunity for social, cultural and historical study; should also apply to the area of concentration; see note below.

Notes:

- A concentration must be declared in Asian American Studies, Chicana/o Studies, Education (Teachers in Urban Settings or Teachers in Bilingual Education), Native American Studies, Pan African Studies, or General Ethnic Studies. The concentration includes 12 units of electives.

Concentration in Chicana/o Studies (12 units)

Code	Title	Units
Concentration Requirements (12 Units)		
Select four courses from the following:		12
ANTH 106	Culture and Personality of the Chicano Child	
ANTH 121	Archaeology of Mexico	
ANTH 143	Culture and Society in Mexico	
ANTH 145	Peoples and Cultures of Latin America	
ART 111	Latin American and Latino Art History	
ART 148	Barrio Art for Ethnic Groups	
ETHN 115	Biracial and Multiracial Identity in the US	
ETHN 133	Crosscultural Aging in America	
HIST 135A	History Of Mexico To 1910	
HIST 135B	Revolutionary and Modern Mexico	
HIST 138A	Colonial Latin America	
HIST 138B	Modern and Contemporary Latin America	
HIST 178	Mexican-American History	
HIST 183A	California History, 1542-1860	
HIST 183B	California History, 1860-1970	
POLS 147	Latin American Government and Politics	
SPAN 100	Introduction to the Study of Hispanic Literature	
SPAN 110	Survey of Spanish Literature to 1800	
SPAN 111	Survey of Spanish Literature from 1800 to the Present	
SPAN 113	Latin American Literature, Beginnings to Modernism	
SPAN 114	Latin American Literature, Modernism to Present	
SPAN 115	Magical Realism	
SPAN 121	Spanish For Professionals	
SPAN 130	Contemporary Mexican Literature	
SPAN 151	Civilization and Culture of Hispanic America	
SPAN 152	Civilization and Culture of Spain	
SPAN 153	Civilization and Culture of Mexico	
SOC 118	Chicano Community	
SOC 122	Immigration Studies	
THEA 173	Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present	
Total Units		12

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Ethnic Studies (General)

Units required for Major: 36
Total units required for BA: 120

Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

Code	Title	Units
Required Lower Division Course (3 Units)		
ETHN 11	Introduction to Ethnic Studies [1]	3
Required Upper Division Courses (21 Units)		
ETHN 100	Ethnic America [1]	3
ETHN 110	The Asian American Experience	3
ETHN 130	Chicano/Mexican-American Experience	3
or ETHN 131	La Raza Studies	
ETHN 140	Native American Experience	3
ETHN 170	Pan African Studies	3
ETHN 194	Research in Ethnic Studies	3
ETHN 195A	Ethnic Studies Fieldwork	1
ETHN 195B	Ethnic Studies Seminar	2
Concentration Electives (12 Units) [2]		
Select one of the following Concentrations:		12
Asian American Studies		
Chicana/o Studies		
General		
Native-American Studies		
Pan African Studies		
Teachers in Bilingual Education		
Teachers in Urban Settings		
Total Units		36

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Four upper division Ethnic Studies and/or cross-listed courses selected with advisor approval to provide the opportunity for social, cultural and historical study; should also apply to the area of concentration; see note below.
Notes:
- A concentration must be declared in Asian American Studies, Chicana/o Studies, Education (Teachers in Urban Settings or Teachers in Bilingual Education), Native American Studies, Pan African Studies, or General Ethnic Studies. The concentration includes 12 units of electives.

Concentration in General Studies (12 units)

Code	Title	Units
Concentration Requirements (12 Units)		
Select four courses from the following:		12
ETHN 111	Southeast Asians in the US	
ETHN 112	Contemporary Asian American Issues	
ETHN 113	Asian American Communities	
ETHN 114	Asian Americans and Globalization	
ETHN 115	Biracial and Multiracial Identity in the US	
ETHN 116	Asian American Politics and Public Policy	
ETHN 117	Black Political Thought	
ETHN 118	Asian American Women	
ETHN 121	Hmong American Experience	
ETHN 122	Sikh Americans and Globalization	
ETHN 133	Crosscultural Aging in America	
ETHN 136	US Mexican Border Relations	
ETHN 137	Race and Ethnicity in Latin America and Caribbean	
ETHN 141	Politics of the African Diaspora	
ETHN 142	Native American Tribal Governments	
ETHN 143	American Indians, Film and Popular Culture	
ETHN 145	Native Voice, Memory, and Biography	
ETHN 150	Native American Oral Tradition and Storytelling	
ETHN 151	Native American Women	
ETHN 152	American Indians, Sovereignty and US Laws	
ETHN 155	Genocide and Holocaust Studies	
ETHN 156	Indigenous People	
ETHN 167	Asian American Families: Issues and Perspectives	
ETHN 171	African Religions and Philosophies	
ETHN 172	Black Women In America	
ETHN 173	The Black Family in the United States	

ETHN 177	Topics In African Studies	
ETHN 179	Black Music and Black Consciousness	
ETHN 181	Cinematic Representations of Pan African Identities	
Total Units		12

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Ethnic Studies (Native-American Studies)

Units required for Major: 36
Total units required for BA: 120

Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

Code	Title	Units
Required Lower Division Course (3 Units)		
ETHN 11	Introduction to Ethnic Studies [1]	3
Required Upper Division Courses (21 Units)		
ETHN 100	Ethnic America [1]	3
ETHN 110	The Asian American Experience	3
ETHN 130	Chicano/Mexican-American Experience	3
or ETHN 131	La Raza Studies	

ETHN 140	Native American Experience	3
ETHN 170	Pan African Studies	3
ETHN 194	Research in Ethnic Studies	3
ETHN 195A	Ethnic Studies Fieldwork	1
ETHN 195B	Ethnic Studies Seminar	2
Concentration Electives (12 Units) [2]		
Select one of the following Concentrations:		12
Asian American Studies		
Chicana/o Studies		
General		
Native-American Studies		
Pan African Studies		
Teachers in Bilingual Education		
Teachers in Urban Settings		
Total Units		36

1. Course also satisfies General Education (GE)/Graduation Requirement.
2. Four upper division Ethnic Studies and/or cross-listed courses selected with advisor approval to provide the opportunity for social, cultural and historical study; should also apply to the area of concentration; see note below.

Notes:

- A concentration must be declared in Asian American Studies, Chicana/o Studies, Education (Teachers in Urban Settings or Teachers in Bilingual Education), Native American Studies, Pan African Studies, or General Ethnic Studies. The concentration includes 12 units of electives.

Concentration in Native-American Studies (12 units)

Code	Title	Units
Concentration Requirements (12 Units)		
Select four courses from the following:		12
ANTH 128	Indians of California	
ANTH 135	Indians of North America	
ENGL 180W	Native American Literature	
ENVS 163	Ethnoecology	
ETHN 142	Native American Tribal Governments	
ETHN 143	American Indians, Film and Popular Culture	
ETHN 145	Native Voice, Memory, and Biography	
ETHN 150	Native American Oral Tradition and Storytelling	
ETHN 151	Native American Women	
ETHN 152	American Indians, Sovereignty and US Laws	
HIST 171	Native American Ethnohistory	
HIST 172	LGBTQ Histories	
HIST 185	California Indian History	
Total Units		12

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Ethnic Studies (Pan African Studies)

Units required for Major: 36
Total units required for BA: 120

Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

Code	Title	Units
Required Lower Division Course (3 Units)		
ETHN 11	Introduction to Ethnic Studies [1]	3
Required Upper Division Courses (21 Units)		
ETHN 100	Ethnic America [1]	3
ETHN 110	The Asian American Experience	3
ETHN 130	Chicano/Mexican-American Experience	3
or ETHN 131	La Raza Studies	
ETHN 140	Native American Experience	3
ETHN 170	Pan African Studies	3
ETHN 194	Research in Ethnic Studies	3
ETHN 195A	Ethnic Studies Fieldwork	1
ETHN 195B	Ethnic Studies Seminar	2
Concentration Electives (12 Units) [2]		
Select one of the following Concentrations:		12
Asian American Studies		
Chicana/o Studies		
General		
Native-American Studies		
Pan African Studies		
Teachers in Bilingual Education		
Teachers in Urban Settings		
Total Units		36

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Four upper division Ethnic Studies and/or cross-listed courses selected with advisor approval to provide the opportunity for social, cultural and historical study; should also apply to the area of concentration; see note below.

Notes:

- A concentration must be declared in Asian American Studies, Chicana/o Studies, Education (Teachers in Urban Settings or Teachers in Bilingual Education), Native American Studies, Pan African Studies, or General Ethnic Studies. The concentration includes 12 units of electives.

Concentration in Pan African Studies (12 units)

Code	Title	Units
Concentration Requirements (12 Units)		
Select four courses from the following:		12
ANTH 101	Cultural Diversity	
ANTH 161	African Cultures and Societies	
ENGL 180F	Major African-American Authors	
ETHN 115	Biracial and Multiracial Identity in the US	
ETHN 117	Black Political Thought	
ETHN 133	Crosscultural Aging in America	
ETHN 141	Politics of the African Diaspora	
ETHN 155	Genocide and Holocaust Studies	
ETHN 156	Indigenous People	
ETHN 171	African Religions and Philosophies	
ETHN 172	Black Women In America	
ETHN 173	The Black Family in the United States	
ETHN 177	Topics In African Studies	
ETHN 179	Black Music and Black Consciousness	
HIST 142	History of Women in Africa	
HIST 143A	Middle Eastern History to 1800	
HIST 176	African Cultural Heritage in the Americas	
HIST 177	The African-American Experience, 1603-Present	
THEA 132	African-Caribbean Dance	
THEA 140	Black Drama in the African Diaspora	
THEA 170	African American Theatre and Culture	
Total Units		12

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3

B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)	1
B4 - Math Concepts	3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.	3
Area C: Arts and Humanities (12 Units)	
C1 - Arts	3
C2 - Humanities	3
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (6 Units)	
Area D Course	3
Area D Course	3
Area D Course [2]	0
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]	0
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BA in Ethnic Studies (Teachers in Bilingual Education)

Units required for Major: 36
Total units required for BA: 120

Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

Code	Title	Units
Required Lower Division Course (3 Units)		
ETHN 11	Introduction to Ethnic Studies [1]	3
Required Upper Division Courses (21 Units)		
ETHN 100	Ethnic America [1]	3
ETHN 110	The Asian American Experience	3
ETHN 130	Chicano/Mexican-American Experience	3
or ETHN 131	La Raza Studies	
ETHN 140	Native American Experience	3
ETHN 170	Pan African Studies	3
ETHN 194	Research in Ethnic Studies	3
ETHN 195A	Ethnic Studies Fieldwork	1
ETHN 195B	Ethnic Studies Seminar	2
Concentration Electives (12 Units) [2]		
Select one of the following Concentrations:		12
Asian American Studies		
Chicana/o Studies		
General		
Native-American Studies		
Pan African Studies		
Teachers in Bilingual Education		
Teachers in Urban Settings		
Total Units		36

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Four upper division Ethnic Studies and/or cross-listed courses selected with advisor approval to provide the opportunity for social, cultural and historical study; should also apply to the area of concentration; see note below.

Notes:

- A concentration must be declared in Asian American Studies, Chicana/o Studies, Education (Teachers in Urban Settings or Teachers in Bilingual Education), Native American Studies, Pan African Studies, or General Ethnic Studies. The concentration includes 12 units of electives.

Concentration in Teachers in Bilingual Education (12 units)

Code	Title	Units
Concentration Requirements (12 Units)		
Select 12 units of the following:		12
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab	
EDUC 170	Bilingual Education: Introduction to Educating English Learners	
EDUC 171	Bilingualism in the Classroom	
EDUC 199	Special Problems [1]	
HLSC 136		
Total Units		12

[1] Department Chair approval required.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Ethnic Studies (Teachers in Urban Settings)

Units required for Major: 36
Total units required for BA: 120

Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories

about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

Code	Title	Units
Required Lower Division Course (3 Units)		
ETHN 11	Introduction to Ethnic Studies [1]	3
Required Upper Division Courses (21 Units)		
ETHN 100	Ethnic America [1]	3
ETHN 110	The Asian American Experience	3
ETHN 130	Chicano/Mexican-American Experience	3
or ETHN 131	La Raza Studies	
ETHN 140	Native American Experience	3
ETHN 170	Pan African Studies	3
ETHN 194	Research in Ethnic Studies	3
ETHN 195A	Ethnic Studies Fieldwork	1
ETHN 195B	Ethnic Studies Seminar	2
Concentration Electives (12 Units) [2]		
Select one of the following Concentrations:		12
Asian American Studies		
Chicana/o Studies		
General		
Native-American Studies		
Pan African Studies		
Teachers in Bilingual Education		
Teachers in Urban Settings		
Total Units		36

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Four upper division Ethnic Studies and/or cross-listed courses selected with advisor approval to provide the opportunity for social, cultural and historical study; should also apply to the area of concentration; see note below.

Notes:

- A concentration must be declared in Asian American Studies, Chicana/o Studies, Education (Teachers in Urban Settings or Teachers in Bilingual Education), Native American Studies, Pan African Studies, or General Ethnic Studies. The concentration includes 12 units of electives.

Concentration in Teacher in Urban Settings (12 units)

Code	Title	Units
Concentration Requirements (12 Units)		
Select 12 units of the following:		12
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab	
EDUC 170	Bilingual Education: Introduction to Educating English Learners	
EDUC 194	Cooperative Education Experience [1]	
EDUC 199	Special Problems [1]	
HLSC 136		
Total Units		12

[1] Department Chair approval required.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Certificate in Pan African Studies

Units required for Certificate: 24

Program Description

A certificate in Pan African Studies is available with special permission through the Ethnic Studies Department.

Eligibility Information

Students enrolled in the Cooper-Woodson College Enhancement Program are eligible for this certificate. The Director of Pan African Studies certifies those eligible for this certificate.

Program Requirements

Code	Title	Units
ETHN/GOVT 141	Politics of the African Diaspora	3
ETHN 170	Pan African Studies	3
ETHN 172	Black Women In America	3
HIST 7	History of African Civilizations	3
or HIST 141	History of Africa Since 1800	
HIST 142	History of Women in Africa	3
HIST 177	The African-American Experience, 1603-Present	3
Select a course in African culture		3
Select a course in African society		3
Total Units		24

Minor in Asian American Studies

Units required for Minor: 21

Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

Code	Title	Units
ETHN 11	Introduction to Ethnic Studies	3
or ETHN 14	Introduction to Asian American Studies	
ETHN 110	The Asian American Experience	3
ETHN 112	Contemporary Asian American Issues	3
ETHN 113	Asian American Communities	3
Select three of the following:		9
ETHN 111	Southeast Asians in the US	
ETHN 114	Asian Americans and Globalization	
ETHN 115	Biracial and Multiracial Identity in the US	
ETHN 116	Asian American Politics and Public Policy	
ETHN/WOMS 118	Asian American Women	
ETHN 119	The Filipino American Experience	
ETHN 121	Hmong American Experience	
ETHN 122	Sikh Americans and Globalization	
ETHN 167	Asian American Families: Issues and Perspectives	
ETHN 194	Research in Ethnic Studies	
ETHN 195A	Ethnic Studies Fieldwork	
ETHN 195B	Ethnic Studies Seminar	
Elective(s) approved by the Director of Asian American Studies [1]		
Total Units		21

1. See list below for a list of Department approved electives.

Elective List

Code	Title	Units
ETHN 111	Southeast Asians in the US	3
ETHN 112	Contemporary Asian American Issues	3

ETHN 113	Asian American Communities	3
ETHN 114	Asian Americans and Globalization	3
ETHN 115	Biracial and Multiracial Identity in the US	3
ETHN 116	Asian American Politics and Public Policy	3
ETHN 118	Asian American Women	3
ETHN 119	The Filipino American Experience	3
ETHN 121	Hmong American Experience	3
ETHN 122	Sikh Americans and Globalization	3
ETHN 167	Asian American Families: Issues and Perspectives	3
ETHN 194	Research in Ethnic Studies	3
ETHN 195A & ETHN 195B	Ethnic Studies Fieldwork Ethnic Studies Seminar	3

Minor in Chicanx and Latinx Studies

Units required for Minor: 21

Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicanx and Latinx, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

Code	Title	Units
ETHN 30	Introduction to Chicano/Latino Studies	3
ETHN 130	Chicano/Mexican-American Experience	3
or ETHN 131	La Raza Studies	
ETHN 132	La Mujer Chicana	3
ETHN 136	US Mexican Border Relations	3
ETHN 137	Race and Ethnicity in Latin America and Caribbean	3
or ETHN 161	Chicano/Latino Politics and Public Policy	
Upper division electives approved by the Chicana/o Studies Program Director [1]		6
Total Units		21

[1] See list below for a list of Department approved electives.

Elective List

Code	Title	Units
ANTH 106	Culture and Personality of the Chicano Child	3
ANTH 121	Archaeology of Mexico	3
ANTH 143	Culture and Society in Mexico	3
ART 111	Latin American and Latino Art History	3
ETHN 115	Biracial and Multiracial Identity in the US	3
HIST 135A	History Of Mexico To 1910	3
HIST 135B	Revolutionary and Modern Mexico	3
HIST 138A	Colonial Latin America	3
HIST 138B	Modern and Contemporary Latin America	3
HIST 183A	California History, 1542-1860	3
HIST 183B	California History, 1860-1970	3
POLS 147	Latin American Government and Politics	3
SOC 118	Chicano Community	3
SPAN 100	Introduction to the Study of Hispanic Literature	3
SPAN 110	Survey of Spanish Literature to 1800	3
SPAN 111	Survey of Spanish Literature from 1800 to the Present	3
SPAN 113	Latin American Literature, Beginnings to Modernism	3
SPAN 114	Latin American Literature, Modernism to Present	3
SPAN 115	Magical Realism	3
SPAN 121	Spanish For Professionals	3
SPAN 130	Contemporary Mexican Literature	3
SPAN 134	The Short Story in Latin America	3
SPAN 152	Civilization and Culture of Spain	3
SPAN 153	Civilization and Culture of Mexico	3
SPAN 156 Hispanic Folklore		3
THEA 173	Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present	3
THEA 173A Chicano Theatre Background		3

Minor in Ethnic Studies

Units required for Minor: 21 with no more than 6 lower division units

Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory

positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

Code	Title	Units
ETHN 11	Introduction to Ethnic Studies	3
ETHN 110	The Asian American Experience	3
ETHN 130	Chicano/Mexican-American Experience	3
or ETHN 131	La Raza Studies	
ETHN 140	Native American Experience	3
ETHN 170	Pan African Studies	3
Electives approved by the appropriate program director or chair [1]		6
Total Units		21

[1] See list below for a list of Department approved electives.

Elective List

Code	Title	Units
ETHN 111	Southeast Asians in the US	3
ETHN 112	Contemporary Asian American Issues	3
ETHN 113	Asian American Communities	3
ETHN 114	Asian Americans and Globalization	3
ETHN 115	Biracial and Multiracial Identity in the US	3
ETHN 116	Asian American Politics and Public Policy	3
ETHN 117	Black Political Thought	3
ETHN 118	Asian American Women	3
ETHN 119	The Filipino American Experience	3
ETHN 121	Hmong American Experience	3
ETHN 122	Sikh Americans and Globalization	3
ETHN 133	Crosscultural Aging in America	3
ETHN 136	US Mexican Border Relations	3
ETHN 137	Race and Ethnicity in Latin America and Caribbean	3
ETHN 141	Politics of the African Diaspora	3
ETHN 142	Native American Tribal Governments	3
ETHN 143	American Indians, Film and Popular Culture	3
ETHN 145	Native Voice, Memory, and Biography	3
ETHN 150	Native American Oral Tradition and Storytelling	3
ETHN 151	Native American Women	3
ETHN 152	American Indians, Sovereignty and US Laws	3
ETHN 155	Genocide and Holocaust Studies	3
ETHN 156	Indigenous People	3
ETHN 167	Asian American Families: Issues and Perspectives	3
ETHN 171	African Religions and Philosophies	3
ETHN 172	Black Women In America	3
ETHN 173	The Black Family in the United States	3
ETHN 177	Topics In African Studies	3
ETHN 179	Black Music and Black Consciousness	3

Minor in Native American Studies

Units required for Minor: 21

Program Description

Ethnic Studies is an interdisciplinary approach to the study of the cultures, languages, historical, and contemporary issues relating to African Americans, Asian Americans, Chicana/os-Latina/os, and Native Americans. The program directs students to critically examine the cultural contributions made by these groups to world civilization and to American society. Ethnic Studies challenges all students to analyze existing generalizations, theories, and concepts about racial and ethnic groups in order to develop valid generalizations, concepts, and theories about the people and their experiences. Students are encouraged to actively work to eliminate problems based on discrimination.

Students are also encouraged to blend professional area studies with Ethnic Studies. For example, a student may major in Ethnic Studies and minor in Business Administration. Similarly, students with a degree in Engineering Technology may minor in Ethnic Studies and emerge well-prepared professionally to assume middle management and supervisory positions in a multicultural society. Ethnic Studies majors and minors enter careers and professions in both the public and private sectors.

Note: Program advising and other information can be obtained from the Ethnic Studies Department.

Program Requirements

Code	Title	Units
ETHN 53	Introduction to Native American Studies	3
ETHN 140	Native American Experience	3
ETHN 152	American Indians, Sovereignty and US Laws	3
Electives approved by Native American Studies Program Director [1]		12
Total Units		21

[1] See list below for a list of Department approved electives.

Elective List

Code	Title	Units
ANTH 128	Indians of California	3
ANTH 135	Indians of North America	3
ENGL 180W	Native American Literature	3
ENVS 163	Ethnoecology	3
ETHN 142	Native American Tribal Governments	3
ETHN 143	American Indians, Film and Popular Culture	3
ETHN 145	Native Voice, Memory, and Biography	3
ETHN 145	Native Voice, Memory, and Biography	3
ETHN 150	Native American Oral Tradition and Storytelling	3
ETHN 151	Native American Women	3
HIST 171	American Indian Ethnohistory	3
HIST 172	LGBTQ Histories	3
HIST 185	California Indian History	3

Family and Consumer Sciences

College of Social Sciences and Interdisciplinary Studies

Department Description

The Department of Family and Consumer Sciences offers four distinct programs and one concentration. The focus of these programs is to enhance the skills and knowledge that will promote the well-being of individuals, families, and communities. Our programs and profession focus on individuals and families in order to achieve an optimum balance between people and their environments. The mission of Family and Consumer Sciences is to empower individuals and families to function interdependently in a global society.

Family and Consumer Science Education (Pre-Credential Single Subject Matter Program)

The major meets the California Career Technical Education (CTE) Curriculum Standards and Home Economics Teacher Preparation Standards of Quality and Effectiveness for Subject Matter Programs.

Graduates are prepared to enter the Single Subject Teaching Credential Program required to teach Family and Consumer Sciences/Home Economics in middle and high schools. Coursework includes Nutrition and Food, Fashion Merchandising & Management, and Family Studies & Human Development combined with an internship in a middle or high school in the Sacramento area.

Family Studies and Human Development

The major prepares students for careers in various human service fields. The program emphasizes an asset-based approach to understanding lifespan human development, family systems and family diversity. The major is approved by the National Council on Family Relations (NCFR) for academic programs in Family Life Education.

Fashion Merchandising and Management

The major prepares students for careers in the global fashion industry, including management, marketing, buying, advertisement, promotion, manufacturing, sourcing, distribution, retailing, and many more. The program also emphasizes the contemporary and historical ways of meeting the economic, physiological, aesthetic, psychological, sociological, and cultural needs of consumers relative to fashion products.
The program offers a vast array of courses that cover different areas of the fashion industry. Students learn the basics of fashion by taking foundation courses. Upper division marketing classes allow students to become more familiar with the business side of fashion. Courses focusing on the basic design skills introduce students to the creative side of the industry. This program provides a well-rounded education that prepares students for jobs in any area of the fashion industry.

Nutrition and Food & Dietetics

The major prepares students for careers in the field of nutrition, food management, community nutrition, and food sustainability. The program emphasizes the roles of nutrition and food in individual and family health, cultural and behavioral influences on food selection, and the management of commercial and noncommercial food systems.
The optional concentration in Dietetics meets requirements that prepare students to become a registered dietitian nutritionist (RDN), as well as to prepare students for a variety of careers in clinical nutrition, community nutrition, private practice, food service administration, and food science. The Dietetic Internship administered by the Department is a post-baccalaureate, 42-week internship accepting 10 interns annually. This program provides full-time supervised practice at a variety of health care and community facilities.

Degree Programs

BS in Family and Consumer Sciences (Nutrition and Food with an Emphasis in Dietetics) (http://catalog.csus.edu/colleges/social-sciences-interdisciplinary-studies/family-consumer-sciences/bs-in-family-and-consumer-sciences-dietetics/)

BS in Family Studies and Human Development (p. 969)

BS in Fashion Merchandising and Management (p. 971)

BS in Nutrition and Food (p. 972)

BS in Nutrition and Food (Dietetics)

Minor in Family and Consumer Sciences (p. 974)

Family and Consumer Science Education (Pre-Credential Single Subject Matter Program)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Nutrition and Food Dietetics Concentration is also individually accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), the accrediting agency for the Academy of Nutrition and Dietetics. The department also administers a Dietetics Internship (DI) program accredited by ACEND.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

- Faculty in Family and Consumer Sciences come from diverse educational backgrounds and expertise. Faculty members promote and integrate a holistic approach to understanding individuals and families while preparing students for professional careers or graduate study.
- All programs in the department are committed to reflecting in our study and in our practices the diverse populations with which our students will work, including diversity in ability, age, educational level, ethnicity, gender identity, immigration status, nationality, race, religion, sexual orientation, and socioeconomic status.
- The Department is equipped with laboratories for textiles, food, and teacher credentialing preparation courses.
- Support facilities include a Costume Collection gallery. Visit the virtual gallery at http://www.csus.edu/facs/.

- The Didactic Program in Dietetics (DPD) and the Dietetics Internship (DI) programs are accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND)
- The Family Studies and Human Development program is approved by the National Council on Family Relations for academic programs in Family Life Education.
- The Pre-Credential Single Subject Matter program in FACS Education is approved by the California Commission on Teacher Credentialing.
- Service Learning courses, Academic Internships (FACS 195C), Education Practica and other opportunities for Community Engaged Learning are a hallmark of our degree programs. These provide an opportunity for students to work under the supervision of a professional in business, education, government, or public service settings. Internships are planned a semester in advance with an adviser.
- The Department sponsors four student organizations for students to participate in professional development and community service related to their major programs.
- In addition to serving majors and minors, the Department provides several general education courses for other majors including classes that meet the graduation requirements for the writing intensive, and race and ethnicity categories.

Career Possibilities

Fashion Merchandising and Management: Buyer · Merchandiser · Marketing Manager · Retail Manager · Regional Manager · District Manger · Distributor · Sales Representative · Product Analyst · Sourcing Analyst · Quality Control Analyst · Inventory Specialist · Apparel Engineer · Fashion Coordinator · Stylist · Visual Merchandiser · Fashion Editor · Fashion Forecaster · Fashion Reporter · Magazine Editor

Family Studies and Human Development: Consumer and Family Resources · Community-Based Social Services · Community Education · Family Life Educator · Family Planning · Family Support Services Provider · Health Care and Family Wellness · Marriage and Family Enrichment · Parenting Educator · Prenatal and Maternity Services · Sexuality Educator · Youth Adviser · Child Life Specialist

Nutrition and Foods/Dietetics Concentration: Nutrition and Health Educator · Community/Public Health Nutritionist · Food Service Manager/Hospitality · Foodservice Inspector · State Nutrition Program Assistant, Consultant, or Analyst · School Nutrition Services Specialist · Entrepreneur/Consultant · Nutrition Program Representative · University/Research Centers.

Additional careers in Dietetics: Registered Dietitian Nutritionist · Clinical Dietetics-Hospital/Health Care or other Health Care Facilities · Private Practice · Sports Nutrition · Corporate Wellness · University/'Medical Center Research

Family and Consumer Sciences Education (Pre-Credential Single Subject Program): High school and middle school teacher · Extension specialist · Consultant in Home Economics Careers and Technology. Life Coach. Resources Specialist. Entrepreneur. Consumer Educator. Credit Counselor. California State Department of Education · FHA-HERO State Adviser.

Contact Information

Lynn Hanna, Department Chair
Jeannie Hansen, Administrative Support Coordinator II
Mariposa Hall 3000
(916) 278-6393
http://www.csus.edu/facs/

Faculty

BRAUNSTEIN, NADINE

BUCHAN, WENDY

COOK, JERRY

GONZALEZ, HENRY

HANNA, LYNN

HYSON, DIANNE

KANG, MINJEONG

MALROUTU, YAMINI LAKSHMI

MOYLAN, J. ANN

MULASI, URVASHI

SHEN, DONG

SHILTS, MICAL

THOMPSON, KELLY

WIE, SEUNGHEE

FACS 100. Research: Methods and Application in Family and Consumer Sciences. 3 Units
Prerequisite(s): 6 FACS units completed. FACS majors only
Term Typically Offered: Fall, Spring, Summer

Study of methods and application of research in the field of Family and Consumer Sciences. Focus on scientific inquiry, methodology, evidenced-based practice, interpretation of research results, program and project evaluation., and professional communication. Includes the examination of ethical practices, professional presentation skills, and technical writing skills.

FACS 128. Consumer Technologies and Environments. 3 Units
Term Typically Offered: Fall, Spring

Study and analysis of technologies, durable goods, and environments in home and workplace and their impact on quality of life. Principles of equipment and product design, selection and safety; space planning; consumer decision making. Examination of issues related to energy management, shelter, housing and access to technology. Lecture, field trips two hours; activity two hours.
Field trip(s) may be required.

FACS 140. Family Resource Management. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Management of resources in family systems. Interaction of families with other societal and environmental systems in acquiring and using resources to meet goals and other demands.

FACS 141. Family Finance. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Economic problems of and financial management by the individual and family. Topics include: income patterns, inflation, credit, contracts, housing, financial services, insurance, taxes, investments, retirement income planning.

FACS 142. Consumer Issues. 3 Units
Term Typically Offered: Fall, Spring

Study of effect of consumer movements on protection of consumer rights. Current issues include marketplace fraud and redress; consumer information, education, and decision-making; privacy and environmental concerns; and advocacy for vulnerable consumer groups.

FACS 143. Consumer Policy. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150 or instructor permission.
Term Typically Offered: Fall, Spring

Examination of consumer policy and regulations. Emphasis on consumer products, including food and drugs, housing, and credit. Strategies for promoting consumer advocacy. Lecture, discussion, field trips.
Field trip(s) may be required.

FACS 147. Financial and Legal Aspects of Aging. 3 Units
Prerequisite(s): FACS 141 or instructor permission.
Term Typically Offered: Fall, Spring

Economic status, financial and consumer issues, legal rights and responsibilities and resource management for aging persons. Emphasis on financial planning for retirement and estate planning. Lecture, discussion, case studies.

FACS 149. Family Financial Counseling. 3 Units
Prerequisite(s): FACS 141 and senior status.
Term Typically Offered: Fall, Spring

Examination of professional issues in family financial planning including ethical considerations, regulations, communication skills, and professional responsibility. Development of skills needed by family financial counselors to counsel families with financial problems. Lecture, discussion, case study, counseling sessions.

FACS 156. Child Life and Family-Centered Care. 3 Units
Prerequisite(s): FACS 52 or CHDV 30 or CHDV 35 or a course in child development/human development, covering at least birth through adolescence with instructor permission.
Term Typically Offered: Summer only

Overview of the Child Life profession and child life practices. Focus on family-centered care for children in the healthcare environment and their families. Major course topics include: scope of practice in child life; ethical and professional practice; impact of illness, injury and health on patients and family; techniques and outcomes of preparation; therapeutic play; grief and bereavement.
Note: This course is designed to meet the specifications set forth by the Association of Child Life Professionals (ACLP) for the child life course required for certification as a Certified Child Life Specialist (CCLS)

FACS 166A. American Indigenous Families: Issues and Perspectives. 3 Units
Term Typically Offered: Fall, Spring

Application of research and theory specific to Latino/Chicano and American Indian families; strategies for applying this knowledge to areas of service, therapy, policy, and education. Lecture; discussion, Internet enhancement.
Cross Listed: ETHN 166; only one may be counted for credit.

FACS 166B. Asian American Families: Issues and Perspectives. 3 Units
Term Typically Offered: Fall, Spring

Family is an adaptable and changing institution of society. The course will highlight research and theory on Asian American families with an emphasis on applying the information to areas of service, therapy, policy, and education. A comparison of the experiences between various Asian groups in the U.S. will be stressed. Lecture, discussion, Internet enhancement.
Cross Listed: ETHN 167; only one may be counted for credit.

FACS 168. Senior Seminar. 3 Units
Prerequisite(s): 21 FACS units.
Term Typically Offered: Fall, Spring

Designed to synthesize knowledge in Family and Consumer Sciences. Examination of the concentration in the major and career exploration. Analysis of public policy and ethical issues, professionalism and leadership strategies. Includes personal and professional competency assessment and development of an academic and professional portfolio.

FACS 195A. Field Study: Selected Areas in Family and Consumer Sciences. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Guided study and experience in some area within Family and Consumer Sciences in which the student needs orientation or greater depth of study in a specialized field.
Credit/No Credit

FACS 195C. Internship. 1 - 3 Units
Prerequisite(s): Upper division status; instructor permission obtained in the preceeding semester; 2.5 GPA or above.
Term Typically Offered: Fall, Spring

Directed observation and supervised work experience in an approved business, government, or service agency. Internships are offered for the purpose of increasing student understanding of the nature and scope of agency operations and giving students orientation in occupational specialties. Supervision is provided by authorized persons in the cooperating agencies and collaborative supervision is provided by the Family and Consumer Sciences faculty. Each student is required to maintain a record of activities and assignments and to prepare periodic reports.
Note: Student must make arrangements with a faculty member for a work program one semester prior to admittance to the course. A minimum of three hours per week per unit of credit is required.

Credit/No Credit

FACS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

FASH 30. Fashion and Human Environment. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

This course serves as an introduction to the study of fashion and human environment and how fashion is perceived, marketed, and internalized within individuals across Western and non-Western cultures. A focus on both internal factors such as psychological, aesthetic and self-image, and external factors such as social, economic, cultural and political experiences will be addressed.

FASH 31. Textiles. 3 Units
Term Typically Offered: Fall only

Study of the characteristics of fibers, yarns, fabrics, and finishes. Emphasis on fabric performance, serviceability as they affect consumer satisfaction. Discussion of environmental concerns in the textile industry and laws relating to textile products.

FASH 32. Fundamentals of Apparel Production. 3 Units
Prerequisite(s): You must be a FACS major or FASH major to enroll in this course.
Term Typically Offered: Fall, Spring

Principles of fit and design. Applied basic construction with emphasis on standards and custom techniques. Characteristics of fabrics used; individual pattern adjustment. Lecture, discussion, demonstration one hour; laboratory four hours.

FASH 130. History Of Fashion. 3 Units
Term Typically Offered: Spring only

A study of dress in Western civilization from ancient times through the present. An interdisciplinary approach is used to examine how clothing communicates values displayed by the individual and functions as a reflection of trends in technology, political events, social ideals, and cultural developments such as art and music. Emphasis on the contributions and perspectives of women as well as differing roles in the production, dissemination, and consumption of clothing in relation to socioeconomic groups. Lecture, discussion.

FASH 131. Quality Analysis: Apparel. 3 Units
Prerequisite(s): FACS 31, FACS 32.
Term Typically Offered: Spring only

Analysis of apparel construction and production; current industrial and technological developments. Discussion of sizing and quality standards with emphasis on identification of fabrics, garment styles, finding and trims. Lecture, discussion, demonstration, field trips.
Field trip(s) may be required.

FASH 133. Creative Principles of Apparel Design. 3 Units
Prerequisite(s): FACS 30 and FACS 31
Term Typically Offered: Fall only

Study of the functional and aesthetic elements of apparel design. The creative process and development of illustrative techniques. Development of creative approaches through projects of experimental, contemporary and traditional techniques with emphasis on elements of design, and selection and organization of colors, forms, materials and accessories for apparel production. Studio-activity six hours.

FASH 134. Introduction to Fashion Industry. 3 Units
Term Typically Offered: Fall, Spring

Designed to develop an awareness and understanding of the total fashion industry including past, present and future directions of costume design, manufacturing, textiles, retailers' publications, buying offices, advertising and the consumer.

FASH 135. Merchandise Buying. 3 Units
Prerequisite(s): FACS 134.
Term Typically Offered: Fall only

Detailed study of merchandising mix, purchasing plan, inventory plan, assortment plan, pricing, markdown, markup, and reports. Review of planning and control processes and the buyer's role in merchandise management and decision-making. Lecture, discussion.

FASH 136. Fashion Retailing. 3 Units
Prerequisite(s): FACS 134.
Term Typically Offered: Spring only

A in-depth exploration of fashion retailing from different perspectives, including organizational structure, store location and image with a focus on visual merchandising techniques, and fashion advertising and promotion strategies. Lecture-discussion.

FASH 137. Clothing, Society, and Culture. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Study of the relationship of humans and clothing within their cultural and social environment. Introduction to the fundamentals of social psychology in the examination of clothing and appearance. Clothing and appearance are studied as forms of nonverbal communication and as devices for expressing cultural and social values.

FASH 139. Textiles and Apparel in the Global Economy. 3 Units
Prerequisite(s): FACS 134 or MKTG 101.
Term Typically Offered: Spring only

Overview of global factors affecting the textiles and apparel industries and trade, the impact of textiles and apparel industries on the economy and consumers, the US textiles and apparel in the global economy, and strategies for balancing conflicting interest.

FASH 146. Fashion Entrepreneurship. 3 Units
Prerequisite(s): FASH 134.
Term Typically Offered: Fall only

This course addresses the essentials of entrepreneurship in the fashion industry, including management, market segmentation, financial statements, cash flow, accessing capital, e-commerce, omni-channel retailing, and challenges facing emerging enterprises. Special emphasis is placed on the essentials of planning that are vital to entrepreneurial success, as well as a step-by step guide for starting a fashion business.

FASH 148. Fashion Law. 3 Units
Prerequisite(s): FACS 134
Term Typically Offered: Fall only

This course provides an overview of legal issues affecting the fashion industry and its professionals with an emphasis on fashion entrepreneurship, design, advertising and promotion, production, sourcing, marketing and retailing. Students will also learn about fashion regulatory and policy issues, intellectual property (copyright, trademarks, patents), contractual agreements, leasing, commercial operations and expansion, and the international development of a fashion business.

FSHD 50. The Family and Social Issues. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: F_S_S_W

Family structure, systems and functioning in marriage and other partnerships, parenting, work issues, domestic violence, divorce, and remarriage. Focus on social issues including gender, race, ethnicity, and class. Historical and theoretical perspectives on families in America. Introduction to research in family sciences and public policy implications. Lecture, discussion.
Note: Not open for credit to students who have taken SOC 5.

FSHD 52. The Child In The Family. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Physical, social, emotional and cognitive development of the child, conception through adolescence, in relation to the family. Strong theoretical emphasis. Introduction to methods of study, including observation and interview. Lecture, discussion, fieldwork.
Note: Not open for credit to students who have taken CHDV 137, CHDV 138, or PSYC 148.

FSHD 108. Family Communication. 3 Units
Prerequisite(s): COMS 8, FACS 50, SOC 166, or instructor permission.
Term Typically Offered: Fall, Spring

Study of the family as a small group with emphasis on understanding and interpreting the dynamics of family communication using various communication and social-psychological theories. Opportunity to develop an analytical framework.
Cross Listed: COMS 108; only one may be counted for credit.

FSHD 150. Family Stress and Coping: Multicultural Focus. 3 Units
Prerequisite(s): FACS 50 or equivalent with instructor permission, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer

Study of multicultural families and diverse family forms, with a focus on how families function under stress. Family theory and research are applied to the interpretation and analysis of selected literary work, both in print and film formats.

FSHD 152. Adolescent Development. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or FACS 52, or instructor permission.
Term Typically Offered: Fall, Spring

In-depth study of the achievements and challenges associated with the adolescent stage of development. Focus on understanding the needs and motivations of adolescents and the challenges they face within their socio-cultural environment. Lecture, discussion.
Note: Not open to students who have taken PSYC 149. Previous or concurrent enrollment in CHDV 133 strongly recommended.

FSHD 154. Issues in Parenting. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or FACS 52, or instructor permission
Term Typically Offered: Fall, Spring

Survey of historical and contemporary attitudes toward parenting. Review of research on child-rearing and parent-child relationships. Use of case studies to explore the influence of personality, developmental stage, family structure, ethnic and cultural factors on parenting. Lecture, Case Study.
Note: Previous or concurrent enrollment in CHDV 133 strongly recommended. Cross-listed: CHDV 154; only one may be counted for credit.

FSHD 155. Family Life Education. 3 Units
Prerequisite(s): FACS 50; and FACS 100 or CHDV 133; and senior standing.
Term Typically Offered: Fall, Spring

Historical and philosophical perspective on family life education across the lifespan. Practice in curriculum development including content, objectives, and teaching strategies.

FSHD 159. Adulthood and Aging in Human Development. 3 Units
Term Typically Offered: Fall, Spring

Analyzes the interrelation between physical, psychological, and social development in the middle and later years of adulthood with attention to personal, family and community challenges and opportunities in their cultural context.

FSHD 162. Family Support Services. 3 Units
Prerequisite(s): A minimum of 12 units in FACS upper division family area courses.
Term Typically Offered: Fall, Spring

Application of family science to the development, implementation, and evaluation of family support services. Implications of research for practice with diverse families. Focus on developing skills in family-centered services, family-professional collaboration, and resource-based and asset-based intervention. Lecture two hours; fieldwork in the community three hours.

FSHD 195F. Practicum in Family Life Education. 1 - 3 Units
Prerequisite(s): senior status; GPA of 2.75 or above; NURS 160 or PSYC 134 or HLSC 134; and FACS 155.
Corequisite(s): If not taken as a prerequisite, FACS 155 may be taken concurrently with instructor¿s approval.
Term Typically Offered: Fall, Spring

Directed observation and supervised work experience in an approved educational setting, service agency, business or government agency that provides family life education. Students will move from observing and assisting to developing, delivering and assessing lessons and programs in family life education. Students will gain experience applying educational and developmental theories, curriculum development, and teaching methods to delivering evidence-based and culturally sensitive lessons in the content areas of family life education: parent education, strengthening relationships, and/or sexuality education.
Note: Students must make arrangements with the supervising faculty member one semester prior to admittance to the course.

Credit/No Credit

NUFD 9. Food Safety and Sanitation. 3 Units
Prerequisite(s): NUFD and FACS majors only.
Term Typically Offered: Fall, Spring

Introduction to food safety principles and application, microbiology of food safety, infection control, and safety issues. Examination of laws and regulations related to consumer and food service operations. Preparation for national food service sanitation certification exam.

NUFD 10. Nutrition And Wellness. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Introduction to the basic principles of nutrition and the relationship of the human diet to health. Overview of the nutrition profession, the biological uses of nutrients and tools for dietary planning. Examination of specific issues such as weight loss, sports nutrition, food safety, the diet-disease relationship and global nutrition. Analysis of special nutritional requirements and needs during the life cycle. Evaluation of personal dietary habits using current dietary guidelines and nutritional assessment methods.

NUFD 11. Principles of Food Preparation. 3 Units
Prerequisite(s): FACS Nutrition and Food majors and minors and Dietetics Special majors only.
Term Typically Offered: Fall, Spring

Chemical, physical, sensory, and nutritional properties of food related to processes used in food preparation. Laboratory includes preparation and evaluation of individual food products. Lecture two hours; laboratory three hours.

NUFD 107. Nutrition Education, Communication, and Counseling. 3 Units
Prerequisite(s): FACS 10 and an additional 3 FACS units
Term Typically Offered: Fall, Spring

Nutrition Education, communication and counseling techniques for use by the nutrition/dietetics professional. Introduction and application of various health behavior theories to promote change in diverse target audiences. Development of nutrition care plans, educational materials and activities for individual groups. Understand and apply methods of dietary assessment and motivational interviewing.

NUFD 110. Food Production and Sustainability. 4 Units
Prerequisite(s): FACS 9, FACS 10 and FACS 11
Term Typically Offered: Fall, Spring, Summer

Study and laboratory experience in planning, procuring, production, serving and evaluation of food for individuals, families, commercial, and institutional foodservice operations. Application of menu development techniques such as recipe modification and standardization to various target populations. Examination and application of marketing analysis and promotion. Understanding of current issues and sustainability topics related to food production.

NUFD 112. Current Topics in Nutritional Sciences. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Upper Division Further Studies in Area B5
Term Typically Offered: Summer only

Examination of contemporary and controversial topics in nutrition science and how they relate to nutritional needs of different population groups. Analyzes the research process and evaluation of validity of nutrition research. Lecture, discussion.
Note: Not open for credit to Dietetics/Nutrition and Food majors.

NUFD 113. Nutrition And Metabolism. 3 Units
Prerequisite(s): FACS 10; BIO 10 or BIO 20; and CHEM 1A or CHEM 5 or CHEM 6A
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring, Summer

Study of the structures, types and metabolism of carbohydrates, lipids and proteins. Discussion of the biological roles of vitamins and minerals. Application and integration of metabolic knowledge with health promotion and chronic disease. Lecture, discussion.

NUFD 114. Cultural and Social Aspects of Food. 3 Units
Prerequisite(s): FACS 10; Only FACS majors/minors and Dietetic special majors may enroll in this course
Term Typically Offered: Fall, Spring

Examination of the cultural and social meanings of food, food behaviors and food systems. Emphasis on the regional, ethnic and religious influences on food habits. Study of food production, distribution, and consumption historically and cross-culturally; traditional dishes and nutritional contributions of diets of several cultures.

NUFD 115. Nutrition: Pre-conception Through Childhood. 3 Units
Prerequisite(s): NUFD 113
Term Typically Offered: Fall, Spring

Examination of nutritional requirements, metabolism and issues during stages of the early life cycle, including: pre-conception, pregnancy, lactation, infancy, and early and late childhood. Study of assessment and methods for achieving nutritional needs through dietary selection and promotion of maternal, infant, and child health. Analysis of social, environmental, physical and economic factors affecting nutritional status.

NUFD 116. Food Service Management. 3 Units
Prerequisite(s): FACS 110.
Term Typically Offered: Fall, Spring

Study of financial, facility, human resource management in commercial and noncommercial foodservice operations. Application of accounting principles, evaluation and selection of equipment, layout and design, and principles and practices of human resource management as an entry-level manager.

NUFD 117. Community Nutrition. 3 Units
Prerequisite(s): FACS 107; and either FACS 115 or FACS 119.
Term Typically Offered: Fall, Spring

Study of theory, concepts and philosophy affecting nutrition education and services in the community. Introduction to techniques of interviewing and counseling clients. Emphasis on culturally sensitive approaches to dietary assessment, counseling and community nutrition research. Use of a variety of teaching methods to improve nutrition status of the community. Field study involves practical experience in a community nutrition program. Lecture, discussion two hours; field study three hours.

NUFD 118A. Medical Nutrition Therapy I. 3 Units
Prerequisite(s): FACS 113, FACS 121, and BIO 131.
Term Typically Offered: Fall only

Study of the principles of medical nutrition therapy and the Nutrition Care Process. Use the Nutrition Care Process to make decisions, identify nutrition-related problems and determine and evaluate nutrition interventions with patients/clients with various conditions, including, cardiovascular and gastrointestinal disorders.

NUFD 118B. Medical Nutrition Therapy II. 3 Units
Prerequisite(s): FACS 118A, and CHEM 161 or instructor permission.
Term Typically Offered: Spring only

Continuation of principles, methods, and skills as developed in FACS 118A. Review of the etiology, development and dietary prevention and intervention of diseases influenced by nutrition such as: diabetes mellitus, heptatic and biliary diseases, cancer, renal disease, pulmonary disease, neurological disorders, HIV and AIDS, and inborn errors of metabolism. Lecture, discussion two hours; activity two hours.

NUFD 119. Nutrition: Adolescence Through Older Adulthood. 3 Units
Prerequisite(s): FACS 113
Term Typically Offered: Fall, Spring

Examination of nutritional requirements, metabolism and issues during stages of the life cycle, including: adolescence, adulthood, and old age. Study of assessment and methods for achieving nutritional needs through dietary selection and promotion of adolescent, adult, and elderly adult health. Analysis of social, environmental, physical and economic factors affecting nutritional status.

NUFD 120. Practical Application in Sports Nutrition. 3 Units
Prerequisite(s): FACS 113
Term Typically Offered: Fall, Spring

A survey course in nutrition with an emphasis on the relationship among diet, physical activity, and health; exploration of the changes in the metabolism of carbohydrates, lipids, protein and water; discussion of the function of vitamins and minerals; practical application of evidence-based dietary recommendations for common sports and varying physical intensity. Recommended for FACS majors. Lecture/Discussion. Three units.

NUFD 121. Nutrition Assessment, Methods and Support. 3 Units
Prerequisite(s): FACS 113
Term Typically Offered: Fall, Spring, Summer

Study of health care systems, the nutrition care process including assessment and support, and clinical implications of malnutrition. Topics include nutrition-focused physical examination, anthropometric, biochemical, dietary, body composition, and functional status evaluation and an understanding of advantages and disadvantages of assessment approaches. Application of various assessment methods and problem solving will be achieved through hands on training and clinical case studies in the context of malnutrition, nutrition support, cancer, eating disorders, and obesity.

NUFD 170. Advanced Nutrition and Metabolism. 3 Units
Prerequisite(s): CHEM 161, FACS 113; or instructor permission.
Term Typically Offered: Spring only

Study of the physiologic function of carbohydrates, lipids, protein and micronutrients including integrated metabolism, transport, regulation and relation to inborn errors/chronic disease. Introduction to gene-nutrient interaction.
Cross Listed: BIO 170; only one may be counted for credit.

NUFD 199D. Dietetic Pathways. 1 Unit
Prerequisite(s): Senior standing as Dietetics emphasis.
Term Typically Offered: Fall only

Examination of dietetics career paths, processes and options. Students will learn about the profession of dietetics, including professionalism, the professional organization, pathways, mentoring and the code of ethics.

NUFD 221A. Advanced Clinical Nutrition A. 3 Units
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Fall only

Perform nutrition assessment of patients with complex medical conditions. Integration of pathophysiology into medical nutrition therapy. Development, supervision and evaluation of nutrition care plans. Select, calculate, monitor and evaluate nutritional support regiments for patients. Lecture, composition.

NUFD 221B. Advanced Clinical Nutrition B. 1 Unit
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Spring only

Continuation of principles and skills as developed in FACS 221A with application to other complex disease conditions and integration to multiple diseases. Application of genetics and pathophysiology to complex disease conditions. Demonstration of skills in assignments and presentations. Lecture, composition.

NUFD 222. Advanced Community Nutrition and Nutrition Education. 1 Unit
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Fall only

Management of nutrition care for population groups across the lifespan. Perform outcome assessment/evaluation of community based food and nutrition programs. Nutrition policy development and evaluation based on community needs and resources. Learn advanced nutrition counseling techniques. Lecture, composition.

NUFD 223. Advanced Foodservice Management and Administration. 2 Units
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Fall only

Management of procurement, distribution, and service of food, and integration of financial, human, physical and material resources. Production of food that meets nutrition guidelines, cost parameters, and consumer acceptance; safety and sanitation issues related to food. Analysis of the operations of food service organization. Lecture, written assignments and practical experience.

NUFD 224. Advanced Community Nutrition and Policy. 3 Units
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Spring only

Learn and apply the nutrition care process and to manage nutrition care for population groups. Conduct outcome assessment, planning, implementation, marketing and evaluation of nutrition programs. Apply the research process and critically evaluate nutrition research. Develop an understanding of nutrition policy and resources. Lecture-discussion.

NUFD 280. Teaching Methods in Family and Consumer Sciences/Home Economics. 3 Units
Prerequisite(s): Current enrollment in a teaching credential program or instructor permission.
Term Typically Offered: Summer only

This course is designed to provide students with materials, classroom management strategies and methods necessary to successfully teach Family & Consumer Sciences (FCS)/Home Economics Careers and Technology (HECT) at the secondary level. Teacher candidates will become acquainted with legislation, standards, teaching strategies, resources, research and student leadership programs.

NUFD 295. Field Study. 1 - 7 Units
Prerequisite(s): Enrolled in Graduate Studies in NUFD Dietetic Internship
Term Typically Offered: Fall, Spring

Guided study, observation or work experience in an area in which the graduate student needs advanced and specialized study.
Note: May be repeated for credit

Credit/No Credit

NUFD 299. Special Problems. 1 - 3 Units
Prerequisite(s): Undergraduate major or minor in Family and Consumer Sciences.
Term Typically Offered: Fall, Spring

Any properly qualified student may pursue a problem after approval by his/her advisor and the staff member with whom he/she works.
Credit/No Credit

BS in Family and Consumer Sciences (Family Studies)

Units required for Major: 51
Total units required for BS: 120

Program Description

The concentration prepares students for careers in various human service fields. The program emphasizes an understanding of human development, family communication, and diverse families. The program is approved by the National Council on Family Relations (NCFR) for academic programs in Family Life Education. (Also see certificate program in Family Life Education.)

Minimum Grade Requirement

A minimum grade of 'C-' is required for all prerequisite courses within and outside the Department.

Note: Students should consult a Department advisor before choosing a concentration.

Program Requirements

Code	Title	Units
Required Core Courses (21 Units)		
FACS 50	[2]	3
NUFD 10	Nutrition And Wellness	3
SOC 8	Sense and Nonsense in Social Issues and Research [2]	3
or STAT 1	Introduction to Statistics	
FACS 100	Research: Methods and Application in Family and Consumer Sciences	3
FACS 140	Family Resource Management	3
FACS 141	Family Finance	3
FACS 168	Senior Seminar	3
Required Lower Division Courses (3 Units)		
FACS 52	[2]	3
Required Upper Division Courses (27 Units)		
FACS/COMS 108		3
FACS 150	[2]	3
FACS 152		3
FACS/CHDV 154		3
FACS 155		3
FACS 159		3
FACS 162		3
HLSC 134		3
or NURS 160	Human Sexuality	
or PSYC 134	Psychology of Human Sexuality	
Elective to be selected from a pre-approved list OR other elective with advisor approval		*3*
Total Units		51

[1] Child, Family, and Society will be accepted as an alternative to comply with the CSU Lower Division Transfer Pattern.
[2] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6-9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking [2,3]		0 - 3
Area B: Physical Universe and Its Life Forms (10-13 Units)		

B1 - Physical Science	3
B2 - Life Forms	3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)	1
B4 - Math Concepts [2,3]	0 - 3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.	3
Area C: Arts and Humanities (12 Units)	
C1 - Arts	3
C2 - Humanities	3
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (9 Units)	
Area D Course	3
Area D Course	3
Area D Course [2]	0
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development	
Area E Course [2]	0
Total Units	37-43

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.
3. Department offers students an 'OR' option for SOC 8 and STAT 1:
   - If student chooses to take SOC 8, they will meet Area A3 and will still be required to complete an Area B4 course.
   - If student chooses to take STAT 1, they will meet Area B4 and will still be required to complete an Area A3 course.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BS in Family and Consumer Sciences (Fashion Merchandising and Design)

Program scheduled for Discontinuation, please see the BS in Fashion Merchandising and Management (p. 971) for Program Requirements.

BS in Family and Consumer Sciences (Nutrition and Food)

Program scheduled for Discontinuation, please see the BS in Nutrition and Food (p. 972) for Program Requirements.

BS in Family Studies and Human Development

Units required for Major: 51
Total units required for BS: 120

Program Description

The major prepares students for careers in various human service fields. The program emphasizes an asset-based approach to understanding lifespan human development, family systems, and family diversity in cultural context. The major is approved by the National Council on Family Relations (NCFR) for academic programs in Family Life Education. (Also see certificate program in Family Life Education.)

Career Possibilities

Child Life Specialist · Community-Based Social Service Provider · Community Educator · Consumer and Family Resource Specialist · Early Childhood Educator · Family Life Educator · Family Planning Provider · Family Support Services Provider · Government and Public Policy Specialist· Health Care and Family Wellness Provider· Marriage and Family Enrichment Provider · Parent Educator · Prenatal and Maternity Service Provider · Preschool and Adult Day Care Director · Resource and Referral Services Specialist· Sexuality Educator · Youth Advisor

Requirements for BS in Family Studies and Human Development:

- 120 units minimum with 40 upper division units
- General Education requirements including 9 upper division General Education units

Program Requirements

Code	Title	Units
Required Core Courses (21 Units)		
FACS 50	[2]	3
NUFD 10	Nutrition And Wellness [1]	3
SOC 8	Sense and Nonsense in Social Issues and Research [2]	3
or STAT 1	Introduction to Statistics	
FACS 100	Research: Methods and Application in Family and Consumer Sciences	3
FACS 140	Family Resource Management	3
FACS 141	Family Finance	3
FACS 168	Senior Seminar	3
Required Lower Division Courses (3 Units)		
FACS 52	[2]	3
Required Upper Division Courses (24 Units)		
FACS/COMS 108		3
FACS 150	[2]	3
FACS 152		3
FACS/CHDV 154		3
FACS 155		3
FACS 159		3
FACS 162		3
HLSC 134		3
or NURS 160	Human Sexuality	
or PSYC 134	Psychology of Human Sexuality	
Elective to be selected from the following OR other elective with advisor approval		**3**
CHDV 157	Infant and Toddler: Development and Care	
FACS 156	Child Life and Family-Centered Care	
FACS 195C	Internship	
FACS 195F		
FASH 137	Clothing, Society, and Culture	
NUFD 107	Nutrition Education, Communication, and Counseling	
NUFD 114	Cultural and Social Aspects of Food	
Total Units		51

[1] Child, Family, and Society will be accepted as an alternative to comply with the CSU Lower Division Transfer Pattern.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6-9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking [2,3]		0 - 3
Area B: Physical Universe and Its Life Forms (10-13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5		1
B4 - Math Concepts [2,3]		0 - 3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area Course C		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development		
Area E Course [2]		0
Total Units		37-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students an 'OR' option for SOC 8 and STAT 1:
- If student chooses to take SOC 8, they will meet Area A3 and will still be required to complete an Area B4 course.
- If student chooses to take STAT 1, they will meet Area B4 and will still be required to complete an Area A3 course.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BS in Fashion Merchandising and Management

Units required for Major: 51
Total units required for BS: 120

Program Description

The major prepares students for careers in the global fashion industry, including management, marketing, buying, advertisement, promotion, manufacturing, sourcing, distribution, retailing, and many more. The program also emphasizes the contemporary and historical ways of meeting the economic, physiological, aesthetic, psychological, sociological, and cultural needs of consumers relative to fashion products.

Minimum Grade Requirement

A minimum grade of 'C-' is required for all prerequisite courses within and outside the Department.

Program Requirements

Code	Title	Units
Required Core Courses (18 Units)		
ECON 1A	Introduction to Macroeconomic Analysis [1]	3
or PHOT 11	Digital Imaging	
ECON 1B	Introduction to Microeconomic Analysis [1]	3
or GPHD 5	Introduction to Graphic Design	
FASH 30	Fashion and Human Environment [1]	3
FASH 31	Textiles	3
FASH 32	Fundamentals of Apparel Production	3
MATH 24	Modern Business Mathematics [1]	3
or STAT 1	Introduction to Statistics	
Required Upper Division Courses (30 Units)		
FACS 100	Research: Methods and Application in Family and Consumer Sciences	3
FACS 168	Senior Seminar	3
FASH 130	History Of Fashion	3
FASH 131	Quality Analysis: Apparel	3
FASH 134	Introduction to Fashion Industry	3
FASH 135	Merchandise Buying	3
FASH 136	Fashion Retailing	3
FASH 137	Clothing, Society, and Culture	3
FASH 139	Textiles and Apparel in the Global Economy	3
MKTG 101	Principles Of Marketing	3
Elective Upper Division Courses (3 Units)		
FASH 133	Creative Principles of Apparel Design	3
or FASH 148	Fashion Law	
Total Units		51

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (10 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (9-12 Units)		
C1 - Arts [2,3,4]		0 - 3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		40-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students an 'OR' option for ECON 1A and PHOT 11:
- If student chooses to take ECON 1A, they will meet one area of Area D and will still be required to complete an Area C1 course.
- If student chooses to take PHOT 11, they will meet Area C1 and will not need this area of Area D which is met through FACS 30.

[4] Department offers students an 'OR' option for ECON 1B and GPHD 5:
- If student chooses to take ECON 1B, they will meet one area of Area D and will still be required to complete an Area C1 course.
- If student chooses to take GPHD 5, they will meet Area C1 and will not need this area of Area D which is met through FASH 30.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BS in Nutrition and Food

Units required for Major: 54
Total units required for BS: 120

Program Description

The major prepares students for careers in the field of nutrition, food management, and food product development and sales. The major emphasizes the role of nutrition and food in individual and family health, cultural and behavioral influences on food selection, and the management of commercial and noncommercial food systems.

Minimum Grade Requirement

A minimum grade of 'C-' is required for all prerequisite courses within and outside the Department.

Program Requirements

Code	Title	Units
Required Core Courses (29 Units)		
BIO 10	Basic Biological Concepts [1]	3
CHEM 1A	General Chemistry I [1]	5
or CHEM 6A	Introduction to General Chemistry	
or CHEM 5		
FACS 9		3
FACS 10	[1]	3
FACS 11		3
FACS 100	Research: Methods and Application in Family and Consumer Sciences	3
FACS 168	Senior Seminar	3
PSYC 2	Introductory Psychology [1]	3
STAT 1	Introduction to Statistics [1]	3
Required Upper Division Courses (25 Units)		
FACS 107		3
FACS 110		4
FACS 113	[1]	3
FACS 114		3
FACS 115		3
FACS 119		3
Select two of the following:		6
FACS 116		
FACS 117		
FACS 118A		
FACS 120		
FACS 121		
Total Units		54

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Note: CHEM 1A, CHEM 1B, and CHEM 20 are recommended for students who plan to complete the dietetics concentration or graduate studies in nutrition.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]		0
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3

Area D Course [2]	0
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development	
Area E Course [2]	0
Total Units	30

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BS in Nutrition and Food (Dietetics)

Units required for Major: 80
Total units required for BS: 120

Program Description

The major prepares students for careers in the field of nutrition, food management, community nutrition, and food sustainability. The program emphasizes the role of nutrition and food in individual and family health, cultural and behavioral influences on food selection, and the management of commercial and noncommercial food systems.

Note: By completing the required core courses in the Dietetics Concentration, GE Area B (12 units) requirements are met.

Pre-Major Requirements

To declare the Dietetics Concentration, freshman or transfer students admitted to the BS in Nutrition and Food are required to complete the following grade and core course requirements, and then submit a Major Change form to the Family and Consumer Sciences Department Office along with all transcript copies:

1. An overall GPA of 2.75
2. Completion of the following required core courses (28 units) with a 'C' or better. Only first or second attempts will be considered.

Code	Title	Units
BIO 10	Basic Biological Concepts	3
CHEM 1A	General Chemistry I	5
CHEM 1B	General Chemistry II	5
NUFD 9	Food Safety and Sanitation	3
NUFD 10	Nutrition And Wellness	3
NUFD 11	Principles of Food Preparation	3
NUFD 113	Nutrition And Metabolism	3
STAT 1	Introduction to Statistics	3

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (18 Units)		
BIO 10	Basic Biological Concepts [1]	3
NUFD 9	Food Safety and Sanitation [1]	3
NUFD 10	Nutrition And Wellness [1]	3
NUFD 11	Principles of Food Preparation	3
PSYC 2	Introductory Psychology [1]	3
STAT 1	Introduction to Statistics [1]	3
Required Upper Division Core Courses (22 Units)		
FACS 100	Research: Methods and Application in Family and Consumer Sciences	3
NUFD 107	Nutrition Education, Communication, and Counseling	3
NUFD 110	Food Production and Sustainability	4
NUFD 113	Nutrition And Metabolism [1]	3
NUFD 114	Cultural and Social Aspects of Food	3
NUFD 115	Nutrition: Pre-conception Through Childhood	3
NUFD 119	Nutrition: Adolescence Through Older Adulthood	3
Concentration (40 Units)		
Select from the following concentrations:		40
General Nutrition and Food		
Dietetics		
Total Units		80

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Concentration in Dietetics (40 units)

Code	Title	Units
Required Lower Division Courses (17 Units)		
BIO 39	Microbiology for Allied Health Students	4
CHEM 1A	General Chemistry I	5

CHEM 1B	General Chemistry II	5
CHEM 20	Organic Chemistry Lecture--Brief Course	3
Required Upper Division Courses (23 Units)		
BIO 131	Systemic Physiology	4
CHEM 161	General Biochemistry	3
NUFD 116	Food Service Management	3
NUFD 117	Community Nutrition	3
NUFD 118A	Medical Nutrition Therapy I	3
NUFD 118B	Medical Nutrition Therapy II	3
NUFD 121	Nutrition Assessment, Methods and Support	3
NUFD 199D	Dietetic Pathways	1
Total Units		40

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]		0
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development		
Area E Course [2]		0
Total Units		30

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Minor in Family and Consumer Sciences

Units required for Minor: 24, all of which must be taken in Family and Consumer Sciences.

Program Description

A minimum of 12 upper division units is required. Courses must be selected from at least two areas of Family and Consumer Sciences in consultation with a FACS advisor.

Program Requirements

Code	Title	Units
Select one of the following:		3
FACS 50		
FACS 140	Family Resource Management	
FASH 31	Textiles	
NUFD 10	Nutrition And Wellness	
Courses selected from two concentrations of Family and Consumer Sciences		21
Total Units		24

Single Subject Matter Program (Family and Consumer Sciences Education)

Units required for Subject Matter Program: 49

Total units required for BS: 120

Program Description

The Subject Matter Program leads to a BS in Family and Consumer Sciences and meets the subject matter content requirement for a teaching credential.

Minimum Grade Requirement

A minimum grade of 'C-' for all courses is required for admission into the teacher preparation program. Teaching credential candidates must also complete the Professional Education Program to qualify for a teaching credential. Consult the FACS Department credential advisor and the College of Education Student Service Center for further information regarding requirements.

Program Requirements

Code	Title	Units
Required Core Courses (22 Units)		
FACS 50	[1]	3
FACS 100	Research: Methods and Application in Family and Consumer Sciences	3
FACS 140	Family Resource Management	3
FACS 168	Senior Seminar	3
FASH 30	Fashion and Human Environment [1]	3
NUFD 10	Nutrition And Wellness [1]	3
SOC 8	Sense and Nonsense in Social Issues and Research [1]	3
or STAT 1	Introduction to Statistics	
FACS 195A	Field Study: Selected Areas in Family and Consumer Sciences	1
Required Lower Division Courses (15 Units)		
FACS 52	[1]	3
or CHDV 30	Human Development	
or CHDV 35	Child and Adolescent Development	
FASH 32	Fundamentals of Apparel Production	3
INTD 15	Introduction to Interior Design [1]	3
NUFD 9	Food Safety and Sanitation	3
NUFD 11	Principles of Food Preparation	3
Required Upper Division Courses (13 Units)		
FACS 141	Family Finance	3
FACS/CHDV 154		3
or FACS 155		
FASH 130	History Of Fashion	3
or FASH 137	Clothing, Society, and Culture	
NUFD 110	Food Production and Sustainability	4
Total Units		50

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6-9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking [2,3]		0 - 3
Area B: Physical Universe and Its Life Forms (10-13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [3]		0 - 3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (9 Units)		
C1 - Arts [2]		0
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course		3
Area D Course [2]		0
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development		
Area E Course [2]		0
Total Units		31-37

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students an 'OR' option for SOC 8 and STAT 1:
- If student chooses to take SOC 8, they will meet Area A3 and will still be required to complete an Area B4 course.
- If student chooses to take STAT 1, they will meet Area B4 and will still be required to complete an Area A3 course.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html

Family Life Education

College of Social Sciences and Interdisciplinary Studies

Program Description

The goal of the program is to prepare students to provide family life education in schools, churches, youth programs, family service agencies, and other areas of the community. The certificate program is designed to cover the ten family life substance areas delineated by the National Council on Family Relations NCFR. (See list below). A Sacramento State certificate is awarded upon graduation provided all certificate and degree requirements have been fulfilled.

Note: This program is taken concurrently with established degree requirements. The majority of courses for the certificate program are applicable toward course requirements for a degree in Family and Consumer Sciences. The certificate is not a teaching credential. In conjunction with a Bachelor or Master degree or a state teaching credential, it may be helpful in obtaining employment as a Family Life Educator.

Admission Requirements

1. Students must either be in a degree program at Sacramento State or must apply for graduate admission to the University.
2. Both undergraduates and graduate students must have a GPA of at least 2.5.
3. Students must apply for entry into the program through the certificate coordinator.

Program Requirements

1. Complete a baccalaureate degree program with a major in Family and Consumer Sciences or a related field.
2. A GPA of 3.0 (B grade or higher) must be attained for all courses taken in the program.
3. At least 9 of the 21 required units must be taken in residence at Sacramento State.

National Council on Family Relations Family Life Substance Areas

- Families in Society
- Internal Dynamics of Families
- Human Growth and Development
- Human Sexuality
- Family Resource Management
- Interpersonal Relationships
- Parent Education and Guidance
- Family Law and Public Policy
- Ethics
- Family Life Education Methodology

Career Possibilities

The Sacramento State certificate in Family Life Education can stand alone or serve as a step toward national certification through the National Council on Family Relations (NCFR). Family Life Educators have employment opportunities in a variety of public service areas: social services, health and welfare, recreation, youth programs, community action, preschool/daycare, after school programs, drug/alcohol rehabilitation centers, senior citizens programs, military family support, parent education, community education, extension services, and family service agencies. For information on certification at the national level see www.ncfr.org (http://www.ncfr.org/).

Contact Information

Ann Moylan, Coordinator
Mariposa Hall 3000
(916) 278-6393

Certificate in Family Life Education

Units required for Certificate: 21

Program Description

(Program to provide description)

Program Requirements

Code	Title	Units
Required Courses (21 Units)		
FACS 50		3
FACS 140	Family Resource Management	3
FACS/CHDV 154 or CHDV 130	Parent Education	3
FACS 155		3
Select one of the following:		3
PUBH 134	Understanding Human Sexuality	
NURS 160	Human Sexuality	
PSYC 134	Psychology of Human Sexuality	
Select one of the following:		3
FACS 52		
FACS 152		
FACS 159		
FACS 195C	Internship	3
Total Units		21

Gerontology

College of Social Sciences and Interdisciplinary Studies

Program Description

The Gerontology Program provides an applied interdisciplinary approach to studying the human aging process and the challenges encountered by older adults and their families as they interact in contemporary society. The curriculum is anchored in life course and humanistic theory, and concentrates on the needs of both healthy and chronically ill elders.

In order to better understand life's complexities, the program guides students to critically examine and explore the issues, impacts, and interventions for elders and their families from an interdisciplinary framework. Throughout coursework, students are exposed to the bio-psycho-social-cultural and gender contexts that exist individually and in aggregate groups within society. Course content challenges all students to identify and analyze existing generalizations, theories, and concepts about aging in order to develop valid understandings based on current research in the discipline. Throughout the program, students are encouraged to actively advocate concerning elder issues.

The program offers a major and minor in Gerontology. Students are encouraged to blend other disciplines of study with Gerontology in order to facilitate varied career alternatives. They are helped in constructing an individual (elective) program of study within their major that reflects their own interests. Using elective courses to begin to build a minor in this area is highly encouraged. The program also assists students in constructing a special master's degree.

Career opportunities for gerontologists are growing rapidly. Employers are realizing the benefits of employing people who have backgrounds in aging along with abilities to address the needs of their older consumers. Gerontology graduates enter careers in both the public and private sectors with healthy and chronically ill elders. The careers are as varied as the goals of the individual and the needs of the organization. Graduates often work in such positions as counselors, advocates, analysts in state agencies for older adults, social workers, nurses, and information and referral specialists. Others have created their own careers in such areas as dental hygiene, human services, food services, travel, and Web design.

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Gerontology graduates also often go on to graduate and professional schools in fields such as sociology, psychology, counseling, nursing, criminal justice, family services, and social work.

Degree Programs

BS in Gerontology (p. 980)

Minor in Gerontology (p. 982)

Certificate in Gerontology (Graduate) (p. 981)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Science in Gerontology is also individually accredited by the Association of Gerontology in Higher Education.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features

The focus of the curriculum is upon the biological/psychological/social aspects of aging; social policies; services and research in aging; and practice, administration, and program development, implementation and evaluation skills related to aging.

- An integrated interdisciplinary program of courses and field experiences leads to a Bachelor of Science degree with a Major or Minor in Gerontology.
- Multiple major courses include integrated Service Learning to connect theory, practice, and community service.
- Individuals are prepared for careers in varied gerontological practice areas based upon demographic projections of need for personnel in planning, administering, coordinating, and delivering older adult services.
- Gerontological practitioners' awareness of the effects of social policy on aging individuals and families is emphasized.
- The program helps facilitate students' progression from community colleges to the University when acquiring a BS degree in Gerontology.
- Individuals currently working in the community are afforded opportunities to learn advanced skills and acquire professional training in gerontology.
- The strong relationships between the Gerontology Program and Sacramento area agencies and institutions planning or delivering services for older persons, and their families are key components to this program's success.
- The Gerontology Program helps enhance the interest and commitment of diverse faculty and the University while providing a vehicle for collaboration regarding community engagement, interdisciplinary study and research in the field of Gerontology.
- The Program provides comprehensive academic preparation for graduate study in Gerontology or other related fields.

Potential Career Possibilities

Counselor · Adult Protective Services · Assessment/Intake Case Worker · California Department of Aging · Case Manager · Consultant · Department of Health Services · Department of Social Services-Older Adult Educator · Guardian/Conservator Staff · Information and Referral Specialist · Legal

Aid Assistant · Ombudsman/Advocate · Program Activities Director · Program Specialist · Senior Community Outreach · Geriatric Social Worker · Geriatric Clinical Nurse · Rehabilitation/Job Training Agencies · Senior Retirement/Adult Day Care Centers · Area Agencies on Aging

Contact Information

Cheryl Osborne, Director
Laura Emerson, Administrative Support Coordinator
Benicia Hall 1018
(916) 278-7163,
FAX: (916) 278-3855
laura.emerson@csus.edu
www.csus.edu/gero (http://www.csus.edu/gero/)

JENSEN, DONNA

KOSS, CATHERYN

OSBORNE, CHERYL

RODRIGUES, JOSEPH

SCHIER-ANZELMO, NANCY

TIFT, TERI

WALSH, DIANE

GERO 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Provide students with the opportunity to interact with fellow students and the seminar leader and to build a community of academic and personal support, as well as explore gerontological concepts needed to respond to demographic changes in today's world.

GERO 100. Aging Issues in Contemporary America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Introduction to the field of Gerontology and how the discipline addresses society's aging needs. An examination of current issues in gerontology using a life span perspective focusing on older adults' needs/concerns along life's continuum in various environments. Major topics include implications of the demographic imperative, common aging changes/conditions, myths and stereotypes, effects of health/illness on individual and family roles, basic social issues and policies arising from the graying of America, and media, cultural and gender influences.

GERO 101. Elder Care Continuum Services and Strategies. 3 Units
Term Typically Offered: Fall, Spring

Exploration and analysis of the 'elder care service continuum' within the context of changing diverse societal needs, service availability and accessibility, current public policy, and administrative and management issues facing care providers. A multidisciplinary examination of the spectrum of services and programs targeted for older adults and their families. Includes information and referral processes and agencies, recreational and social options, housing alternatives, in-home, residential and skilled care options, health care eligibility criteria, funding sources, and adult protective services.
Note: This is a service learning course.

GERO 102. Social Policy for an Aging Society. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150 or equivalent.
Term Typically Offered: Fall, Spring

Explores context and process for policy making by national and California state governments including ethical dimensions. Applications are developed from students' and instructor's areas of interest including K-12 and higher education, land-use policy, and aging issues such as elder advocacy, Social Security, and Medicare/Medicaid. Provides background and skills for entry level positions in public or non-profit organizations.
Cross Listed: PPA 100; only one may be counted for credit.

GERO 103. Applied Care Management in Gerontological Practice. 3 Units
Prerequisite(s): GERO 101
Term Typically Offered: Fall, Spring

Students will analyze issues, services, and interventions related to care management with older adults. They will apply strategies for identifying and accessing services targeted for older adults, their families/caregivers. Students will develop an understanding of unique characteristics/needs of elders, the systems approach to working with elders, issues affecting service delivery to this population, and basic practice skills for effective service delivery to elders and families/caregivers. Students have the opportunity to work with individuals residing in a senior residential community.
Note: This is a service learning course.

GERO 121. Strategies for Optimal Aging. 3 Units
Term Typically Offered: Fall, Spring

This course is an in-depth, interdisciplinary, and holistic exploration of health promotion and adaptation paradigms that facilitate optimal and productive longevity. Hardiness and self-efficacy theories along with expectations and experiences enhancing quality of life are explored. Interactions among such variables as activity, diet, exercise, work/leisure, attitudes/beliefs, humor, living environments, spirituality, and social networks are investigated within the contexts of gender, economic, and cultural perspectives.
Cross listed: GERO 221

GERO 122. Managing Disorders in Elders. 3 Units
Prerequisite(s): GERO 121
Term Typically Offered: Fall, Spring

Study and analysis of prevalent pathophysiological-based diseases and psychological disorders commonly experienced by older adults and frail elder populations. Disease/disorder causes and the effects of chronic illness on individuals' activities of daily living, sexuality, relationships, and coping abilities with changing lifestyles are examined using a life course framework and evidenced-based research. Assessment tools, lab value changes, medication needs, complications/disabilities, traditional/alternative treatments and ethical issues rising from meeting needs are investigated along with implications for caregivers.

GERO 123. Research on Aging & the Life Course. 3 Units
Prerequisite(s): Minimum of one GERO upper division course or instructor permission.
Term Typically Offered: Fall, Spring

Analysis, evaluation, and application of existent gerontological research. Hands-on practice carrying out aging-related research projects, including defining the research question, selecting data collection tools, collecting and analyzing quantitative and qualitative data, and presenting results in narrative and visual formats. Special emphasis on connecting gerontological theory, research, and interdisciplinary practice, accommodating participants with sensory, physical, or cognitive limitations, and ethical issues.

GERO 124. Perspectives on Death and Dying. 3 Units
Prerequisite(s): Student's academic level must be Junior of higher to enroll in this class.
Term Typically Offered: Fall, Spring

Examination of the beliefs, attitudes, and behaviors associated with death and dying. Topics covered include children's and adult's concepts of dying and death; causes and types of death; self-destructive behavior; grief and mourning in the dying person and their survivors; physicians' aid in dying and other legal and ethical issues; and cross-cultural and historical perspectives on death.
Cross listed: PSYC 151

GERO 130. Gerontology Practicum. 3 Units
Prerequisite(s): 24 Major units including GERO 101, GERO 102, GERO 103, GERO 121, GERO 122 and instructor permission.
Term Typically Offered: Fall, Spring

Supervised practicum experience in a community agency planning for or delivering professional services to older adults. This practicum experience is part of two culminating courses for the major and focuses on application of the interdisciplinary nature of the discipline while affording students direct, hands on experiences. Includes a field seminar. Seminar discussions focus on the application of gerontological concepts derived from all gerontology courses and are applied to each student's specific practicum area.
Note: This is a service learning course.

Credit/No Credit

GERO 131. Gerontology Capstone Practicum. 3 Units
Prerequisite(s): 36 Major units including GERO 101, GERO 102, GERO 103, GERO 121, GERO 122, GERO 130 and instructor permission.
Term Typically Offered: Fall, Spring

Supervised internship experience in a community agency planning for or delivering professional services to older adults. This capstone practicum experience builds on the first internship course and is the final culminating course for the major and focuses on advanced application of the interdisciplinary nature of the discipline while affording students direct, hands on experiences. Includes a field seminar. Seminar discussions focus on the application of gerontologic concepts derived from all gerontology courses and are applied to each student's specific Practicum area.
Note: This is a service learning course. Minors may take this course without taking GERO 130

Credit/No Credit

GERO 199. Special Problems. 1 - 3 Units
Prerequisite(s): Advanced approval of project goal and objectives by program director.
Term Typically Offered: Fall, Spring

Independent research, project, or directed reading.
Note: Open to students who are capable of independent work. A maximum of 3 units may count toward elective major requirements.

Credit/No Credit

GERO 200. Adaptation To Age Related Changes, Illnesses and Caregiving. 3 Units
Term Typically Offered: Fall, Spring

Exposure to and analysis of positive and negative functional consequences arising from age related changes and illnesses in elders. Content elucidates changes and their effects on elders' levels of wellness using interdisciplinary research and holistic, life course frameworks. Screening assessments, interventions, community resources and services, and ethical issues are addressed for each topic. Caregiving issues and solutions are explored within life span and problem solving frameworks.

GERO 221. Strategies for Optimal Aging. 3 Units
Term Typically Offered: Fall, Spring

This course is an in-depth, interdisciplinary, and holistic exploration of health promotion and adaptation paradigms that facilitate optimal and productive longevity. Hardiness and self-efficacy theories along with expectations and experiences enhancing quality of life are explored. Interactions among such variables as activity, diet, exercise, work/leisure, attitudes/beliefs, humor, living environments, spirituality, and social networks are investigated within the contexts of gender, economic, and cultural perspectives.
Cross listed: GERO 121

GERO 222. Managing Disorders in Elders. **3 Units**
Prerequisite(s): GERO 221
Term Typically Offered: Fall, Spring

Offers in-depth study/analysis of prevalent pathophysiological-based diseases and psychological disorders commonly experienced by older adults and frail elder populations. Disease/disorder causes and the effects of chronic illness on individuals' activities of daily living, sexuality, relationships, and coping abilities with changing lifestyles are examined using a life course framework and evidenced-based research. Assessment tools, lab value changes, medication needs, complications/disabilities, traditional/alternative treatments and ethical issues rising from meeting needs are investigated along with implications for caregivers.
Cross Listed: GERO 122; only one may be counted for credit.

GERO 295. Internship/Project. **3 Units**
Prerequisite(s): GERO 200, GERO 221, GERO 222.
Term Typically Offered: Fall, Spring

Supervised fieldwork internship or project that is a culminating experience and applies learned gerontological theories and concepts in a community setting where planning, developing, or delivering services to older adults or their families occurs. Students choose an area of practice and negotiate their learning experiences or project with their faculty advisor and field supervisor. Advanced approval of project goal and objectives by program director are required.
Credit/No Credit

GERO 299. Special Problems. **1 - 3 Units**
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Independent research, project, or directed reading. Open to students who are capable of independent work. A maximum of 3 units may count toward elective major requirements. Advanced approval of project goal and objectives by program director.
Credit/No Credit

BS in Gerontology

Units required for Major: 48
Total units required for BS: 120

Program Description

The Gerontology Program provides an applied interdisciplinary approach to studying the human aging process and the challenges encountered by older adults and their families as they interact in contemporary society. The curriculum is anchored in life course and humanistic theory, and concentrates on the needs of both healthy and chronically ill elders and their families.

Minimum Grade Requirement

Students must receive a “C” or better in all major and multidisciplinary core/elective courses.

Program Requirements

Code	Title	Units
Required Major Core Courses (21 Units)		
GERO 101	Elder Care Continuum Services and Strategies	3
GERO 102/ PPA 100	Social Policy for an Aging Society	3
GERO 103	Applied Care Management in Gerontological Practice	3
GERO 121	Strategies for Optimal Aging	3
GERO 122	Managing Disorders in Elders	3
GERO 130	Gerontology Practicum	3
GERO 131	Gerontology Capstone Practicum	3
Research Elective (see advisor) (3 Units)		
Select one of the following:		3
ECON 140	Quantitative Economic Analysis	
ETHN 194	Research in Ethnic Studies	
GERO 123	Research on Aging & the Life Course	
NURS 170	Foundations for Evidence-Based Nursing Practice [1]	
RPTA 110	Research and Evaluation in Recreation, Parks and Tourism [1]	
SOC 102	Research Methods in Sociology [1]	
SWRK 111	Research Methods and Program Evaluation [1]	
Interdisciplinary Core (15 Units)		
ETHN 133	Crosscultural Aging in America	3
FACS 141	Family Finance	3
PSYC 151	Psychological Aspects of Death and Dying	3
RPTA 117	Recreation Therapy and Contemporary Aspects of Disability [2]	3
SWRK 151	Health Services and Systems [3]	3
Electives (9 Units)		
Select 9 units of the following:		9
GERO 199	Special Problems	
HLSC 116		
HLSC 134		
HROB 101	The Management of Contemporary Organizations	
KINS 136	Sport And Aging	
ENGL 120S	Writing in the Social Sciences	
FACS 113	[3]	
FACS 119		
FACS 150	[3]	
FACS 159		
GERO 100	Aging Issues in Contemporary America [3]	
HLSC 150		
PSYC 150	Psychological Aspects of Aging	
PSYC 152	Psychological Aspects of Health, Wellness, and Illness	
SOC 146	Sociology of Aging	
Total Units		48

[1] Gerontology students will be allowed to enroll without prerequisites but need senior status.
[2] Gerontology students will be permitted to enroll without prerequisites
[3] Course also satisfies General Education (GE)/General Education Requirement.

Notes:

- **Additional optional courses** which are recommended to support the Gerontology major are the following:

Code	Title	Units
GERO 21	First Year Seminar: Becoming an Educated Person	3
BIO 20	Biology: A Human Perspective	3
CHDV 30	Human Development	3
FACS 50		3
FACS 113		3
NURS 10	Health Care: Issues and Delivery Systems	3
PSYC 2	Introductory Psychology	3
PSYC 8	Methods of Psychology	3
RPTA 106	Introduction to Inclusive Recreation and Recreation Therapy	3
SOC 1	Principles of Sociology	3
SOC 101	Introduction to Statistics for Sociologists	4
STAT 1	Introduction to Statistics	3
SWRK 110	Statistics and Research for Social Workers	3

- **Major Core courses** have the potential of offering a one unit Service Learning (SL) option for each of the three theory courses (GERO 102, GERO 121 and GERO 122 that do not already include SL. These units could be combined and serve as one elective (GERO 199) if there is an approved written plan by the student and academic advisor prior to enrolling in the course.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (12 Units)		
Area D Course		3
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		49

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Certificate in Gerontology

Units required for Certificate: 18[1]

Program Description

The Gerontology Program provides an applied interdisciplinary approach to studying the human aging process and the challenges encountered by older adults and their families as they interact in contemporary society. The curriculum is anchored in life course and humanistic theory, and concentrates on the needs of both healthy and chronically ill elders.

Candidates must maintain an overall GPA of 3.0 in courses submitted for the certificate.

[1] Graduate students wishing to pursue independent study focusing on aspects of Gerontology are encouraged to also take GERO 299: Special Problems.

Eligibility Information

Students must either be in a graduate degree program at Sacramento State or must apply for graduate admission to the University.

Program Requirements

Code	Title	Units
Required Courses (18 Units)		
GERO 101	Elder Care Continuum Services and Strategies	3
GERO 200	Adaptation To Age Related Changes, Illnesses and Caregiving	3
GERO 221	Strategies for Optimal Aging	3
GERO 222	Managing Disorders in Elders	3
GERO 295	Internship/Project	3
GERO 102/ PPA 100	Social Policy for an Aging Society	3
or GERO 103	Applied Care Management in Gerontological Practice	
Total Units		18

Minor in Gerontology

Units required for Minor: 21

Program Description

The Gerontology Program provides an applied interdisciplinary approach to studying the human aging process and the challenges encountered by older adults and their families as they interact in contemporary society. The curriculum is anchored in life course and humanistic theory, and concentrates on the needs of both healthy and chronically ill elders.

Minimum Grade Requirement

Students must receive a “C” or better in all Gerontology Minor courses.

Program Requirements

Code	Title	Units
Required Lower Division Courses		
There are no specific lower division course requirements [1]		
Required Upper Division Courses (21 Units)		
ETHN 133	Crosscultural Aging in America	3
Select one of the following:		3
FACS 159		
GERO 121	Strategies for Optimal Aging	
GERO 122	Managing Disorders in Elders	
GERO 100	Aging Issues in Contemporary America	3
GERO 101	Elder Care Continuum Services and Strategies	3
GERO 102/ PPA 100	Social Policy for an Aging Society	3
GERO 103	Applied Care Management in Gerontological Practice	3
GERO 131	Gerontology Capstone Practicum	3
Total Units		21

[1] Students must complete at least 45 units of college or university work before becoming eligible to enroll in the program. Students are also encouraged to meet with the Program Director for advising *prior* to enrolling in any Gerontology classes.

Interdisciplinary Studies

College of Social Sciences and Interdisciplinary Studies

Program Description

The Interdisciplinary Studies program recognizes that some subject matter is more thoroughly explored by drawing on various perspectives and methodologies from more than one discipline. Students, with faculty supervision, engage learning opportunities that encourage combining a range of information and experiences into a challenging individualized learning project. In addition, Interdisciplinary Studies is the administrative home to the Military Studies Minor, the Peace Corps Prep Certificate, and field experience courses associated with the Peer Health Educator Internship Program. The office administering, guiding, reviewing, and monitoring the interdisciplinary efforts, when they cross College or Divisional lines, is that of the Dean of the College of Social Sciences and Interdisciplinary Studies. Offerings are listed under the heading Interdisciplinary (ID) in the *Class Schedule*. Questions pertaining to the establishment and "equivalency" of courses should be directed to the Dean of the College of Social Sciences and Interdisciplinary Studies

Contact Information

Dianne Hyson, Dean
Marya C. Endriga, Associate Dean
Amador Hall 255
(916) 278-6504
www.csus.edu/ssis (http://www.csus.edu/ssis/)

Labor Studies

College of Social Sciences and Interdisciplinary Studies

Program Description

The Labor Studies Program is concerned with the world of work, workers, and their organizations. It investigates the cultural, economic, and political forces which provide the environment in which people make a living. It is an inter-disciplinary program which combines broad perspectives with specific skills.

The program emphasizes the world of work from the view of the individual in the workplace, the labor market, and as a member of a work group or labor union. The roles of employers, government, and labor unions, as adversaries and cooperators in an increasingly competitive world, are covered. Courses combine analytical and practical elements, bridging academia with the world of work.

Degree Program

Minor in Labor Studies (p. 983)

Contact Information

Charles Varano, Coordinator
Amador Hall 454D
(916) 278-6675

LBRS 100. Labor and the American Social Structure. **3 Units**
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Introduction to the study of labor in the U.S., including the nature of work, characteristics of the work force, and an overview of contemporary labor and industrial relations systems within the framework of current U.S. economic and political developments.
Cross Listed: SOC 176; only one may be counted for credit.

LBRS 195. Labor Studies Internship. **1 - 3 Units**
Term Typically Offered: Fall, Spring

Supervised work experience or research in relevant institutions providing an opportunity to apply classroom theories and principles to the 'real world.' Partial supervision may be supplied by host institution. Requires approval of the Labor Studies Coordinator.
Credit/No Credit

LBRS 199. Special Problems. **1 - 3 Units**
Term Typically Offered: Fall, Spring

Individual projects or directed reading open to students competent to carry on individual work under the direction of a faculty sponsor. Admission requires approval of the faculty sponsor and the Labor Studies Coordinator.
Credit/No Credit

Minor in Labor Studies

Units required for Minor: 21

Program Description

The Labor Studies Program is concerned with the world of work, workers, and their organizations. It investigates the cultural, economic, and political forces which provide the environment in which people make a living. It is an inter-disciplinary program which combines broad perspectives with specific skills.

Program Requirements

Code	Title	Units
Required Core Courses (9 Units)		
LBRS 100/ SOC 176	Labor and the American Social Structure	3
Select two of the following:		6
ECON 150	Labor Economics	
HIST 188	American Labor History	
HROB 157	Labor Relations	
SOC 175	Work and Occupations	
WOMS 138	Women and Work	
Electives (12 Units)		
Select four of the following:		12
ECON 104	Introduction to the United States Economy	
GOVT 139A		
HROB 153	Employment Law	
PSYC 169	Industrial Psychology	
SOC 120	Ethnic and Race Relations	
SOC 122	Immigration Studies	
SOC 164	Sociology of Globalization	
Total Units		21

Note: Electives may be substituted for some required courses with approval of the Labor Studies Coordinator.

Liberal Studies

College of Social Sciences and Interdisciplinary Studies

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-credential and General.

- The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The major compromises the core section, with courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The pre-credential program requires a 12-unit area of focus.
- The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an advisor. Advisors meet with an advisor at least once each semester with students to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisors are located in Lassen Hall 2008, (916) 278-6342.

Degree Programs

BA in Liberal Studies (American Studies) (p. 984)

BA in Liberal Studies (Art) (p. 986)

BA in Liberal Studies (California Studies) (p. 989)

BA in Liberal Studies (Foreign Language) (p. 991)

BA in Liberal Studies (Human Development) (p. 993)

BA in Liberal Studies (Linguistics/Composition) (p. 995)

BA in Liberal Studies (Literature) (p. 997)

BA in Liberal Studies (Mathematics) (p. 999)

BA in Liberal Studies (Multicultural Studies) (p. 1001)

BA in Liberal Studies (Music) (p. 1004)

BA in Liberal Studies (Natural Science) (p. 1006)

BA in Liberal Studies (Physical Education) (p. 1008)

BA in Liberal Studies (Theatre) (p. 1010)

BA in Liberal Studies (United States History) (p. 1012)

BA in Liberal Studies (World History) (p. 1015)

Accreditation

In addition to California State University, Sacramento's full accreditation by the Western Association of Schools and Colleges, the Bachelor of Arts in Liberal Studies (pre-credential) is also individually accredited by the California Commission on Teacher Credentialing (CCTC). Early planning is strongly advised to prepare students to apply to the professional education program. Details about multiple subject credential programs and regular information sessions are provided by the Teaching Credentials Office in Eureka Hall 401, (916) 278-6639.

Licensure and Credentialing Disclosure

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Career Possibilities

The Liberal Studies major provides students with a wide variety of career opportunities and options. Liberal Studies provides essential learning employers want for workforce readiness: knowledge of human cultures and the physical and natural world, intellectual and practical skills, personal and social responsibility, and integrated learning.

Contact Information

Timothy Fong, Program Director
Lassen Hall 2008
(916) 278-6342
www.csus.edu/libs (http://www.csus.edu/libs/)

Faculty

RECHS, ADAM

SEO, MI-SUK

ANDEREGG, KRISTEN

ELCE, KIMBERLY

LBST 110. California Studies. 3 Units
Prerequisite(s): GOVT 1 or equivalent.
Term Typically Offered: Fall, Spring

Multidisciplinary, analytical view of California that identifies its ethnic and racial diversity within the political, economic and social development of the state. Examines the environmental and geographic dimensions of the state as well as the demographic and land-use trends that have contributed to California's uniqueness.

LBST 194. Liberal Studies Cooperative Education Experience. 3 Units
Prerequisite(s): Upper division status, and instructor permission.
Term Typically Offered: Fall, Spring

Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in schools or related settings. Students gain field experience through supervised employment in school districts and other education-related settings.
Note: May be repeated once for credit.

Credit/No Credit

BA in Liberal Studies (American Studies)

Units required for Major: 100-103
Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.
•The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The core section is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The Pre-Credential program requires a 12-unit concentration.

•The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director

and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which allows them to teach the subject matter typically taught in grades K-9, should see an adviser for important information.

Requirements for the General Liberal Studies Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

Program Requirements

Code	Title	Units
Core Requirements for the Pre-Credential program (88 Units) [1]		
Reading, Language and Literature		
COMS 5	The Communication Experience [2]	3
ENGL 5	Accelerated Academic Literacies [2]	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II [2,3]	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics [4]		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics [2]	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural Science		
BIO 7	Introduction to the Science of Biology [2]	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science [2]	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 [2]	3
HIST 50	World Civilizations, Beginnings-1600 [2]	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government [2]	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3
THEA 118	Children's Theatre	3
Physical Education		
KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		
CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3
EDUC 194	Cooperative Education Experience	
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	
Summative Assessment Requirement		
The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).		
Requirements for Concentrations (for the Pre-Credential program) (12-15 Units)		
Select one of the following concentrations:		12 - 15
Linguistics/Composition		
Literature		
Foreign Language		
United States History		
World History		
California Studies		
American Studies		
Multicultural Studies		
Mathematics		
Natural Science		
Art		
Music		
Theatre		
Physical Education		
Human Development		
Total Units		100-103

1. The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.
2. Course also satisfies General Education (GE)/Graduation Requirement.

[3] Course to meet critical thinking requirement. See adviser for specific options.

[4] Students who complete a mathematics concentration may substitute MATH 30, MATH 31, and MATH 35 for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in American Studies

Code	Title	Units
HRS 161	Multicultural America [1]	3
HRS 162	American Space and Identity [1]	3
HRS/HIST 168	Images Of America	3
Select one of the following:		3
HIST 161	The American Vision [1]	
HIST 162	Social History of the United States [1]	
HIST 166	Popular Culture	
HIST 167	History of American Women [1]	
HIST/HRS 169	Hollywood and America [1]	
HIST 182	American West	
HRS 185	Women in Film and American Culture [1]	
Total Units		12

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5 [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (3 Units)		
C1 - Arts		3
C2 - Humanities [2]		0
C1/C2 - Area Course C [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area D: The Individual and Society (6 Units)		
Area D Course [2]		0
Area D Course [2]		0
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		15

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II [2]		0
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BA in Liberal Studies (Art)

Units required for Major: 100-103
Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.

•The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The major core section is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education,

human development, and health. The Pre-Credential program requires a 12-unit concentration.
•The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which allows them to teach the subject matter typically taught in grades K-9, should see an adviser for important information.

Requirements for the General Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

Program Requirements

Code	Title	Units
Core Requirements for Pre-Credential program (88 Units) [1]		
Reading, Language and Literature		
COMS 5	The Communication Experience [2]	3
ENGL 5	Accelerated Academic Literacies [2]	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II [2,3]	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics [4]		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics [2]	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural Science		
BIO 7	Introduction to the Science of Biology [2]	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science [2]	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 [2]	3
HIST 50	World Civilizations, Beginnings-1600 [2]	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government [2]	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3
THEA 118	Children's Theatre	3
Physical Education		
KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		
CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3
EDUC 194	Cooperative Education Experience	
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	
Summative Assessment Requirement		
The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).		
Requirements for Concentrations (for the Pre-Credential program) (12-15 Units)		
Select one of the following concentrations:		12 - 15
Linguistics/Composition		
Literature		
Foreign Language		
United States History		
World History		
California Studies		
American Studies		
Multicultural Studies		
Mathematics		

Natural Science	
Art	
Music	
Theatre	
Physical Education	
Human Development	
Total Units	100-103

[1] The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

[3] Course to meet critical thinking requirement. See adviser for specific options.

[4] Students who complete a mathematics concentration may substitute MATH 30, MATH 31, and MATH 35 for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in Art

Code	Title	Units
ART 1A	Art, Religions, and Power before 1400 [1]	3
or ART 1B	Art in the Western World: From Renaissance to Baroque	
ART 133	Art Education for Children	3
ART 137	Art for Exceptional Children	3
Select one of the following:		3
ART 20A	Beginning Drawing [1]	
ART 53	Beginning Hand-Built Ceramics	
ART 60	Two-Dimensional Composition	
ART 70	Form, Space Vision [1]	
ART 88	Beginning Sculpture [1]	
ART 148	Barrio Art for Ethnic Groups	
Total Units		12

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6 Units)		
C1 - Arts [2]		0
C2 - Humanities [2]		0
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course [2]		0
Area D Course [2]		0
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		18

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II [2]		0
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Liberal Studies (California Studies)

Units required for Major: 100-103
Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.

•The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The core section is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The Pre-Credential program requires a 12-unit concentration.

•The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which allows them to teach the subject matter typically taught in grades K-9, should see an adviser for important information.

Requirements for the General Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

Program Requirements

Code	Title	Units
Core Requirements for Pre-Credential program (88 Units) [1]		
Reading, Language and Literature		
COMS 5	The Communication Experience [2]	3
ENGL 5	Accelerated Academic Literacies [2]	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II [2,3]	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics [4]		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics [2]	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural Science		
BIO 7	Introduction to the Science of Biology [2]	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science [2]	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 [2]	3
HIST 50	World Civilizations, Beginnings-1600 [2]	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government [2]	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3
THEA 118	Children's Theatre	3
Physical Education		
KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		
CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3

EDUC 194	Cooperative Education Experience
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum

Summative Assessment Requirement

The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).

Requirements for Concentrations (for the Pre-Credential program) (12-15 Units)

Select one of the following concentrations:	12 - 15
Linguistics/Composition	
Literature	
Foreign Language	
United States History	
World History	
California Studies	
American Studies	
Multicultural Studies	
Mathematics	
Natural Science	
Art	
Music	
Theatre	
Physical Education	
Human Development	
Total Units	100-103

[1] The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

[3] Course to meet critical thinking requirement. See adviser for specific options.

[4] Students who complete a mathematics concentration may substitute MATH 30, MATH 31, and MATH 35 for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in California Studies

Code	Title	Units
ECON 114	The California Economy	3
or GEOG 131	California	
LBST 110	California Studies	3
POLS 180	California State and Local Government	3
Select one of the following:		3
HIST 183A	California History, 1542-1860	
HIST 183B	California History, 1860-1970	
Total Units		12

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5 [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (9 Units)		
C1 - Arts		3
C2 - Humanities [2]		0
C1/C2 - Area Course C		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (3 Units)		
Area D Course [2]		0
Area D Course [2]		0
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		18

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II [2]		0

Race and Ethnicity in American Society (RE) [2]	0
Foreign Language Proficiency Requirement [3]	6

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies Graduation Requirement.

3 If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BA in Liberal Studies (Foreign Language)

Units required for Major: 100-103
Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.

•The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The core section is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The Pre-Credential program requires a 12-unit concentration.

•The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which allows them to teach the subject matter typically taught in grades K-9, should see an adviser for important information.

Requirements for the General Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

Program Requirements

Code	Title	Units
Core Requirements for the Pre-Credential program (88 Units) [1]		
Reading, Language and Literature		
COMS 5	The Communication Experience [2]	3
ENGL 5	Accelerated Academic Literacies [2]	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II [2,3]	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics [4]		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics [2]	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural Science		
BIO 7	Introduction to the Science of Biology [2]	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science [2]	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 [2]	3
HIST 50	World Civilizations, Beginnings-1600 [2]	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government [2]	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3
THEA 118	Children's Theatre	3
Physical Education		

KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		
CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3
EDUC 194	Cooperative Education Experience	
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	
Summative Assessment Requirement		
The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).		
Requirements for Concentrations (for the Pre-Credential program) (12-15 Units)		
Select one of the following concentrations:		12 - 15
Linguistics/Composition		
Literature		
Foreign Language		
United States History		
World History		
California Studies		
American Studies		
Multicultural Studies		
Mathematics		
Natural Science		
Art		
Music		
Theatre		
Physical Education		
Human Development		
Total Units		100-103

[1] The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

[3] Course to meet critical thinking requirement. See adviser for specific options.

[4] Students who complete a mathematics concentration may substitute MATH 30, MATH 31, and MATH 35 for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in Foreign Language

Complete the minor requirements in a foreign language. See the Department of World Languages and Literatures (p. 303) for options.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (9 Units)		
C1 - Arts		3
C2 - Humanities [2]		0
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course [2]		0
Area D Course [2]		0
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		21

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0

Writing Intensive (WI)	3
Graduation Requirements (required by Sacramento State) (6 Units)	
English Composition II [2]	0
Race and Ethnicity in American Society (RE) [2]	0
Foreign Language Proficiency Requirement [3]	6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BA in Liberal Studies (Human Development)

Units required for Major: 100-103
Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.

•The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The core section is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The Pre-Credential program requires a 12-unit area concentration.

•The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which allows them to teach the subject matter typically taught in grades K-9, should see an adviser for important information.

Requirements for the General Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

Program Requirements

Code	Title	Units
Core Requirements for the Pre-Credential program (88 Units) [1]		
Reading, Language and Literature		
COMS 5	The Communication Experience [2]	3
ENGL 5	Accelerated Academic Literacies [2]	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II [2,3]	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics [4]		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics [2]	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural Science		
BIO 7	Introduction to the Science of Biology [2]	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science [2]	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 [2]	3
HIST 50	World Civilizations, Beginnings-1600 [2]	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government [2]	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3

THEA 118	Children's Theatre	3
Physical Education		
KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		
CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3
EDUC 194	Cooperative Education Experience	
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	
Summative Assessment Requirement		
The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).		
Requirements for Concentrations (for the Pre-Credential program) (12-15 Units)		
Select one of the following concentrations:		12 - 15
Linguistics/Composition		
Literature		
Foreign Language		
United States History		
World History		
California Studies		
American Studies		
Multicultural Studies		
Mathematics		
Natural Science		
Art		
Music		
Theatre		
Physical Education		
Human Development		
Total Units		100-103

[1] The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

[3] Course to meet critical thinking requirement. See adviser for specific options.

[4] Students who complete a mathematics concentration may substitute MATH 30, MATH 31, and MATH 35 for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in Human Development

Code	Title	Units
CHDV 35	Child and Adolescent Development [1]	3
CHDV 133	Quantitative Methods in Human Development	3
CHDV 136	Developmental Experiences, Methods and Curriculum	3
Select one of the following:		3
CHDV 135	Crosscultural Child Development	
FACS 50	[1]	
FACS 150	[1]	
SOC 169	Changing American Family	
Total Units		12

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Note: Students who are following the nontraditional program will complete a minor instead of a concentration. Please talk to an advisor for more information.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (9 Units)		
C1 - Arts		3
C2 - Humanities [2]		0
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course [2]		0
Area D Course [2]		0
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development		

Area E Course [2]	0
Total Units	18

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II [2]		0
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Liberal Studies (Linguistics/Composition)

Units required for Major: 100-103
Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.

- The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The core section is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The Pre-Credential program requires a 12-unit concentration.
- The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which allows them to teach the subject matter typically taught in grades K-9, should see an adviser for important information.

Requirements for General Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

Program Requirements

Code	Title	Units
Core Requirements for the Pre-Credential program (88 Units) [1]		
Reading, Language and Literature		
COMS 5	The Communication Experience [2]	3
ENGL 5	Accelerated Academic Literacies [2]	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II [2,3]	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics [4]		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics [2]	3
MATH 107A	Fundamental Mathematical Concepts	3

MATH 107B	Fundamental Mathematical Concepts	3
Natural Science		
BIO 7	Introduction to the Science of Biology [2]	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science [2]	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 [2]	3
HIST 50	World Civilizations, Beginnings-1600 [2]	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government [2]	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3
THEA 118	Children's Theatre	3
Physical Education		
KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		
CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3
EDUC 194	Cooperative Education Experience	
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	
Summative Assessment Requirement		
The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).		
Requirements for Concentrations (for the Pre-Credential program) (12-15 Units)		
Select one of the following concentrations:		12 - 15
Linguistics		
Literature		
Foreign Language		
United States History		
World History		
California Studies		
American Studies		
Multicultural Studies		
Mathematics		
Natural Science		
Art		
Music		
Theatre		
Physical Education		
Human Development		
Total Units		100-103

[1] The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

[3] Course to meet critical thinking requirement. See adviser for specific options.

[4] Students who complete a mathematics concentration may substitute MATH 30, MATH 31, and MATH 35 for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in Linguistics

Code	Title	Units
ENGL 116A	Studies in Applied Linguistics	3
ENGL 110P	Second Language Learning and Teaching	3
Select one of the following:		3
ENGL 110J	Traditional Grammar and Standard Usage	
ENGL 110Q	English Grammar for ESL Teachers	
Select one of the following:		3
ENGL 125E	Academic Reading and Writing for Second Language Students	
ENGL 125F	Teaching Oral Skills	
Total Units		12

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3

Area C: Arts and Humanities (9 Units)	
C1 - Arts	3
C2 - Humanities [2]	0
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (6 Units)	
Area D Course [2]	0
Area D Course [2]	0
Area D Course	3
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	21

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II [2]		0
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Liberal Studies (Literature)

Units required for Major: 100-103

Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.

- The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The core section is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The Pre-Credential program requires a 12-unit concentration.
- The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which allows them to teach the subject matter typically taught in grades K-9, should see an adviser for important information.

Requirements for General Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

Program Requirements

Code	Title	Units
Core Requirements for the Pre-Credential program (88 Units) [1]		
Reading, Language and Literature		
COMS 5	The Communication Experience [2]	3
ENGL 5	Accelerated Academic Literacies [2]	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II [2,3]	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics [4]		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics [2]	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural Science		
BIO 7	Introduction to the Science of Biology [2]	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science [2]	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 [2]	3
HIST 50	World Civilizations, Beginnings-1600 [2]	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government [2]	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3
THEA 118	Children's Theatre	3
Physical Education		
KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		
CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3
EDUC 194	Cooperative Education Experience	
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	

Summative Assessment Requirement	
The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).	
Requirements for Concentrations (for the Pre-Credential program) (12-15 Units)	
Select one of the following concentrations:	12 - 15
Linguistics	
Literature	
Foreign Language	
United States History	
World History	
California Studies	
American Studies	
Multicultural Studies	
Mathematics	
Natural Science	
Art	
Music	
Theatre	
Physical Education	
Human Development	
Total Units	100-103

1. The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.
2. Course also satisfies General Education (GE)/Graduation Requirement.
3. Course to meet critical thinking requirement. See adviser for specific options.
4. Students who complete a mathematics concentration may substitute MATH 30, MATH 31, and MATH 35 for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in Literature

Code	Title	Units
ENGL 116B	Children's Literary Classics	3
Select three of the following:		9
ENGL 40A	Introduction to British Literature I	
ENGL 40B	Introduction to British Literature II	
ENGL 50A	Introduction to American Literature I	
ENGL 50B	Introduction to American Literature II	
ENGL 65	Introduction to World Literatures in English	
Total Units		12

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (9 Units)		
C1 - Arts		3
C2 - Humanities [2]		0
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course [2]		0
Area D Course [2]		0
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		21

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II [2]		0
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Liberal Studies (Mathematics)

Units required for Major: 100-103
Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.

•The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The core section is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The Pre-Credential program requires a 12-unit concentration.

•The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which allows them to teach the subject matter typically taught in grades K-9, should see an adviser for important information.

Requirements for the General Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

Program Requirements

Code	Title	Units
Core Requirements for Pre-Credential program (88 Units) [1]		
Reading, Language and Literature		
COMS 5	The Communication Experience [2]	3
ENGL 5	Accelerated Academic Literacies [2]	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II [2,3]	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics [4]		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics [2]	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural Science		
BIO 7	Introduction to the Science of Biology [2]	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science [2]	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 [2]	3
HIST 50	World Civilizations, Beginnings-1600 [2]	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government [2]	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3
THEA 118	Children's Theatre	3
Physical Education		
KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		
CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3
EDUC 194	Cooperative Education Experience	
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	
Summative Assessment Requirement		
The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).		
Requirements for Concentrations (for pre-credential program) (12-15 Units)		
Select one of the following concentrations:		12 - 15
Linguistics/Composition		
Literature		
Foreign Language		
United States History		
World History		
California Studies		
American Studies		
Multicultural Studies		
Mathematics		
Natural Science		
Art		
Music		
Theatre		
Physical Education		
Human Development		
Total Units		100-103

1. The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.
2. Course also satisfies General Education (GE)/Graduation Requirement.
3. Course to meet critical thinking requirement. See adviser for specific options.

[4] Students who complete a mathematics concentration may substitute MATH 30, MATH 31, and MATH 35 for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in Mathematics

Code	Title	Units
MATH 102	Number Theory	3
MATH 107C	Elementary Mathematics and the Learning Process	3
MATH 121	College Geometry	3
MATH 190	History Of Mathematics	3
Total Units		12

Note: The courses given above are one path for completing a mathematics concentration. There are other ways of completing a mathematics concentration - please consult the mathematics advisor in Liberal Studies for more information.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (9 Units)		
C1 - Arts		3
C2 - Humanities [2]		0
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course [2]		0
Area D Course [2]		0
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		21

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II [2]		0
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BA in Liberal Studies (Multicultural Studies)

Units required for Major: 100-103
Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.

•The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The core section is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education,

human development, and health. The Pre-Credential program requires a 12-unit concentration.

•The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which allows them to teach the subject matter typically taught in grades K-9, should see an adviser for important information.

Requirements for the General Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

Program Requirements

Code	Title	Units
Core Requirements for the Pre-Credential program (88 Units) [1]		
Reading, Language and Literature		
COMS 5	The Communication Experience [2]	3
ENGL 5	Accelerated Academic Literacies [2]	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II [2,3]	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics [4]		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics [2]	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural Science		
BIO 7	Introduction to the Science of Biology [2]	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science [2]	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 [2]	3
HIST 50	World Civilizations, Beginnings-1600 [2]	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government [2]	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3
THEA 118	Children's Theatre	3
Physical Education		
KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		
CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3
EDUC 194	Cooperative Education Experience	
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	
Summative Assessment Requirement		
The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).		
Requirements for Concentrations (for the Pre-Credential program) (12-15 Units)		
Select one of the following concentrations:		12 - 15
Linguistics/Composition		
Literature		
Foreign Language		
United States History		
World History		
California Studies		
American Studies		
Multicultural Studies		
Mathematics		

Natural Science	
Art	
Music	
Theatre	
Physical Education	
Human Development	
Total Units	100-103

[1] The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

[3] Course to meet critical thinking requirement. See adviser for specific options.

[4] Students who complete a mathematics concentration may substitute MATH 30, MATH 31, and MATH 35 for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in Multicultural Studies

Code	Title	Units
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
ETHN 11	Introduction to Ethnic Studies [1]	3
or ETHN 100	Ethnic America	
Select two from any of the following categories or one from each of two categories: [2]		6
Chicano/Latino Emphasis		
ANTH 106	Culture and Personality of the Chicano Child	
ETHN 30	Introduction to Chicano/Latino Studies [1]	
ETHN 130	Chicano/Mexican-American Experience [1]	
ETHN 131	La Raza Studies [1]	
ETHN 132	La Mujer Chicana	
HIST 178	Mexican-American History	
Asian American Emphasis		
ETHN 110	The Asian American Experience [1]	
ETHN 111	Southeast Asians in the US	
African American Emphasis		
ETHN 170	Pan African Studies [1]	
HIST 177	The African-American Experience, 1603-Present [1]	
Native American Emphasis		
ETHN 140	Native American Experience [1]	
Women's Studies Emphasis		
HIST 167	History of American Women [1]	
WOMS 115	Introduction to Women's Studies [1]	
WOMS 136	Gender, Race, and Class [1]	
WOMS 137	Women Of Color [1]	
Total Units		12

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] If planning to pursue a multiple subject credential with a Bilingual Emphasis (BCLAD) in Spanish or Asian languages, students must take two courses from Chicano/Latino Emphasis or Asian American Emphasis, respectively.

Note: There is no overlap with core course requirements in this concentration.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (9 Units)		
C1 - Arts		3
C2 - Humanities [2]		0
C1/C2 - Area C Course [0]		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society		
Area D Course [2]		0
Area D Course [2]		0
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		15

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI)		3

Graduation Requirements (required by Sacramento State) (6 Units)	
English Composition II [2]	0
Race and Ethnicity in American Society (RE) [2]	0
Foreign Language Proficiency Requirement [3]	6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Liberal Studies (Music)

Units required for Major: 100-103
Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.

•The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The core section is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The Pre-Credential program requires a 12-unit concentration.

•The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which allows them to teach the subject matter typically taught in grades K-9, should see an adviser for important information.

Requirements for the General Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

Program Requirements

Code	Title	Units
Core Requirements for the Pre-Credential program (88 Units) [1]		
Reading, Language and Literature		
COMS 5	The Communication Experience [2]	3
ENGL 5	Accelerated Academic Literacies [2]	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II [2,3]	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics [4]		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics [2]	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural Science		
BIO 7	Introduction to the Science of Biology [2]	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science [2]	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 [2]	3
HIST 50	World Civilizations, Beginnings-1600 [2]	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government [2]	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3

THEA 118	Children's Theatre	3
Physical Education		
KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		
CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3
EDUC 194	Cooperative Education Experience	
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	
Summative Assessment Requirement		
The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).		
Requirements for Concentrations (for the Pre-Credential program) (12-15 Units)		
Select one of the following concentrations:		12 - 15
Linguistics/Composition		
Literature		
Foreign Language		
United States History		
World History		
California Studies		
American Studies		
Multicultural Studies		
Mathematics		
Natural Science		
Art		
Music		
Theatre		
Physical Education		
Human Development		
Total Units		100-103

[1] The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

[3] Course to meet critical thinking requirement. See adviser for specific options.

[4] Students who complete a mathematics concentration may substitute MATH 30, MATH 31, and MATH 35 for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in Music

Code	Title	Units
MUSC 5		3
MUSC 18	Music Appreciation [1]	3
MUSC 101	Experiences In Music	3
Select one of the following:		3
MUSC 119A	World Music: Asia [1]	
MUSC 119B	World Music: Africa [1]	
MUSC 119C	World Music: Latin America [1]	
Total Units		12

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (3 Units)		
C1 - Arts [2]		0
C2 - Humanities [2]		0
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area D: The Individual and Society (6 Units)		
Area D Course [2]		0
Area D Course [2]		0
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		15

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II [2]		0
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Liberal Studies (Natural Science)

Units required for Major: 100-103
Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.

•The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The core section is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The Pre-Credential program requires a 12-unit concentration.

•The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which allows them to teach the subject matter typically taught in grades K-9, should see an adviser for important information.

Requirements for the General Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

Program Requirements

Code	Title	Units
Core Requirements for the Pre-Credential program (88 Units) [1]		
Reading, Language and Literature		
COMS 5	The Communication Experience [2]	3
ENGL 5	Accelerated Academic Literacies [2]	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II [2,3]	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics [4]		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics [2]	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural Science		

BIO 7	Introduction to the Science of Biology [2]	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science [2]	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 [2]	3
HIST 50	World Civilizations, Beginnings-1600 [2]	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government [2]	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3
THEA 118	Children's Theatre	3
Physical Education		
KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		
CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3
EDUC 194	Cooperative Education Experience	
EDUC 124A	Tutoring Children in Mathematics	
& EDUC 124B	Tutoring Children in Mathematics: Practicum	
EDUC 125A	Tutoring Children in Reading	
& EDUC 125B	Tutoring Children in Reading Practicum	
Summative Assessment Requirement		
The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).		
Requirements for Concentrations (for the Pre-Credential program) (12-15 Units)		
Select one of the following concentrations:		12 - 15
Linguistics/Composition		
Literature		
Foreign Language		
United States History		
World History		
California Studies		
American Studies		
Multicultural Studies		
Mathematics		
Natural Science		
Art		
Music		
Theatre		
Physical Education		
Human Development		
Total Units		100-103

[1] The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

[3] Course to meet critical thinking requirement. See adviser for specific options.

[4] Students who complete a mathematics concentration may substitute MATH 30, MATH 31, and MATH 35 for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in Natural Science

Code	Title	Units
CHEM 106	Chemical Concepts	3
Select three of the following:		9
ANTH 154	Primate Behavior	
ASTR 4B	Introduction to Stars, Galaxies, and Cosmology	
ASTR 132	Stars, Galaxies and Cosmology [1]	
BIO 102	The Natural History of Plants	
BIO 103	Plants and Civilization	
BIO 106	Genetics: From Mendel to Molecules	
CHEM 6A	Introduction to General Chemistry	
CHEM 6B	Introduction to Organic and Biological Chemistry	
GEOG 111	Elements Of Meteorology [1]	
GEOG 113	Climate [1]	
GEOL 121	Geology of California	
GEOL 130	Oceanography [1]	
PHSC 107	History of the Physical Sciences [1]	
PHYS 30	Science and Pseudoscience [1]	
PHYS 186	Musical Acoustics: Science and Sound [1]	
Total Units		12

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0

A3 - Critical Thinking [2]	0
Area B: Physical Universe and Its Life Forms	
B1 - Physical Science [2]	0
B2 - Life Forms [2]	0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]	0
B4 - Math Concepts [2]	0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]	0
Area C: Arts and Humanities (9 Units)	
C1 - Arts	3
C2 - Humanities [2]	0
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.	3
Area D: The Individual and Society (6 Units)	
Area D Course [2]	0
Area D Course [2]	0
Area D Course	3
Area D Course - Take upper-division course to complete Area & upper division requirements.	3
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	18

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II [2]		0
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BA in Liberal Studies (Physical Education)

Units required for Major: 100-103
Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.

•The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The core section is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The Pre-Credential program requires a 12-unit concentration.

•The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which

allows them to teach that subject in grades K-9, should see an adviser for important information.

Requirements for the General Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

Program Requirements

Code	Title	Units
Core Requirements for the Pre-Credential program (88 Units) [1]		
Reading, Language and Literature		
COMS 5	The Communication Experience [2]	3
ENGL 5	Accelerated Academic Literacies [2]	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II [2,3]	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics [4]		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics [2]	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural Science		
BIO 7	Introduction to the Science of Biology [2]	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science [2]	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 [2]	3
HIST 50	World Civilizations, Beginnings-1600 [2]	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government [2]	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3
THEA 118	Children's Theatre	3
Physical Education		
KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		
CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3
EDUC 194	Cooperative Education Experience	
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	
Summative Assessment Requirement		
The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).		
Requirements for Concentrations (for the Pre-Credential program) (12-15 Units)		
Select one of the following concentrations:		12 - 15
Linguistics/Composition		
Literature		
Foreign Language		
United States History		
World History		
California Studies		
American Studies		
Multicultural Studies		
Mathematics		
Natural Science		
Art		
Music		
Theatre		
Physical Education		
Human Development		
Total Units		100-103

1. The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential l program except there are a number of substitutions that can be made. Please see an adviser for more information.
2. Course also satisfies General Education (GE)/Graduation Requirement.
3. Course to meet critical thinking requirement. See adviser for specific options.
4. Students who complete a mathematics concentration may substitute MATH 30, MATH 31, and MATH 35 for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in Physical Education

Code	Title	Units
Fundamental and Creative Movement Skills (6 Units)		
KINS 138	Sport Pedagogy	3
KINS 172	Movement Education	3

Human Movement, Motor Development and/or Motor Learning (3 Units)		
Select one from the following:		3
KINS 150	Exercise and Sport Physiology	
KINS 176	Perceptual Motor Development	
KINS 177	Introduction to Adapted Physical Education	
Team Sport (3 Units)		
KINS 145	Pro Act III - Team Sports	3
Individual, Dual, Nontraditional, Global Sport and Games (3 Units)		
Select one from the following:		3
KINS 141	PRO ACT I - Dual Sports	
KINS 146	PRO ACT IV Individual Sports	
KINS 148	ProAct V - Nontraditional Games and Sports	
KINS 149	Professional Activities of Health and Skill Related Fitness	
Total Units		15

Note: Students must complete the above classes for this concentration. A total of 10 upper division units (one in each category) must be completed for the supplemental authorization credential for Physical Education. (This allows teachers to teach physical education in grades K-9.) A grade of 'C' or higher is required in every course to meet this requirement for a California Commission on Teacher Credentialing approved Supplementary Authorization (if still available).

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course [2]		0
Area D Course [2]		0
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		24

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II [2]		0
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr/

BA in Liberal Studies (Theatre)

Units required for Major: 100-103
Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.

•The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The core sections is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The Pre-Credential program requires a 12-unit concentration.

•The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which allows them to teach the subject matter typically taught in grades K-9, should see an adviser for important information.

Requirements for the General Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

Program Requirements

Code	Title	Units
Core Requirements for the Pre-Credential program (88 Units) [1]		
Reading, Language and Literature		
COMS 5	The Communication Experience [2]	3
ENGL 5	Accelerated Academic Literacies [2]	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II [2,3]	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics [4]		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics [2]	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural Science		
BIO 7	Introduction to the Science of Biology [2]	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science [2]	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 [2]	3
HIST 50	World Civilizations, Beginnings-1600 [2]	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government [2]	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3
THEA 118	Children's Theatre	3
Physical Education		
KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		
CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3
EDUC 194	Cooperative Education Experience	
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	
Summative Assessment Requirement		
The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).		
Requirements for Concentrations (for the Pre-Credential program) (12-15 Units)		
Select one of the following concentrations:		12 - 15
Linguistics/Composition		
Literature		
Foreign Language		
United States History		
World History		
California Studies		
American Studies		
Multicultural Studies		
Mathematics		
Natural Science		
Art		

Music	
Theatre	
Physical Education	
Human Development	
Total Units	100-103

[1] The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

[3] Course to meet critical thinking requirement. See adviser for specific options.

[4] Students who complete a mathematics concentration may substitute MATH 30, MATH 31, and MATH 35 for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in Theatre

Code	Title	Units
Select four of the following:		12
THEA 1	Introduction To Theatre [1]	
THEA 9	Appreciation Of Acting [1]	
THEA 115	Puppetry	
or THEA 115	Multicultural Puppetry	
THEA 118	Children's Theatre	
THEA 174	Multicultural Perspectives in American Theatre [1]	

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (9 Units)		
C1 - Arts [2]		0
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course [2]		0
Area D Course [2]		0
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		21

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II [2]		0
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Liberal Studies (United States History)

Units required for Major: 100-103
Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that

encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.

•The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The core section is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The Pre-Credential program requires a 12-unit concentration.

•The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which allows them to teach the subject matter typically taught in grades K-9, should see an adviser for important information.

Requirements for the General Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

Program Requirements

Code	Title	Units
Core Requirements for the Pre-Credential program (88 Units) [1]		
Reading, Language and Literature		
COMS 5	The Communication Experience [2]	3
ENGL 5	Accelerated Academic Literacies [2]	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II [2,3]	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics [4]		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics [2]	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural Science		
BIO 7	Introduction to the Science of Biology [2]	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science [2]	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 [2]	3
HIST 50	World Civilizations, Beginnings-1600 [2]	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government [2]	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3
THEA 118	Children's Theatre	3
Physical Education		
KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		
CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3
EDUC 194	Cooperative Education Experience	
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	
Summative Assessment Requirement		
The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).		
Requirements for Concentrations (for the Pre-Credential program) (12-15 Units)		
Select one of the following concentrations:		12 - 15

Linguistics/Composition	
Literature	
Foreign Language	
United States History	
World History	
California Studies	
American Studies	
Multicultural Studies	
Mathematics	
Natural Science	
Art	
Music	
Theatre	
Physical Education	
Human Development	
Total Units	100-103

1 The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.

2 Course also satisfies General Education (GE)/Graduation Requirement.

3 Course to meet critical thinking requirement. See adviser for specific options.

4 Students who complete a mathematics concentration may substitute MATH 30, MATH 31, and MATH 35 for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in United States History

Code	Title	Units
HIST 17A	United States History, 1607-1877 [1]	3
HIST 17B	United States History, 1877-Present [1]	3
HIST 100	Introduction to Historical Skills	3
Select one of the following:		3
HIST 150	Colonial America	
HIST 151	The Age of the American Revolution	
HIST 152	Young Republic, 1790-1840	
HIST 153	Civil War and Reconstruction, 1840-1890	
HIST 154	20th Century United States, 1890-1940	
HIST 183A	California History, 1542-1860	
Total Units		12

1 Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (3 Units)		
Area D Course [2]		0
Area D Course [2]		0
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		21

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II [2]		0
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

1 To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

2 Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Liberal Studies (World History)

Units required for Major: 100-103
Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.

•The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The core section is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The Pre-Credential program requires a 12-unit concentration.

•The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which allows them to teach the subject matter typically taught in grades K-9, should see an adviser for important information.

Requirements for the General Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

Program Requirements

Code	Title	Units
Core Requirements for Pre-Credential program (88 Units) [1]		
Reading, Language and Literature		
COMS 5	The Communication Experience [2]	3
ENGL 5	Accelerated Academic Literacies [2]	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II [2,3]	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics [4]		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics [2]	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural Science		
BIO 7	Introduction to the Science of Biology [2]	4
CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science [2]	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 [2]	3
HIST 50	World Civilizations, Beginnings-1600 [2]	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government [2]	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3
THEA 118	Children's Theatre	3
Physical Education		
KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		

CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3
EDUC 194	Cooperative Education Experience	
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	

Summative Assessment Requirement

The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards, and students who complete this major are waived from taking the California Subject Matter Examination (CSET).

Requirements for Concentrations (for the Pre-Credential program) (12-15 Units)

Select one of the following concentrations:	12 - 15
Linguistics/Composition	
Literature	
Foreign Language	
United States History	
World History	
California Studies	
American Studies	
Multicultural Studies	
Mathematics	
Natural Science	
Art	
Music	
Theatre	
Physical Education	
Human Development	
Total Units	100-103

[1] The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

[3] Course to meet critical thinking requirement. See adviser for specific options.

[4] Students who complete a mathematics concentration may substitute MATH 30, MATH 31, and MATH 35 for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in World History

Code	Title	Units
HIST 50	World Civilizations, Beginnings-1600 [1]	3
HIST 51	World History from 1500 to the Present. [1]	3
HIST 100	Introduction to Historical Skills	3
Select one of the following:		3
HIST 110	The Ancient Near East: A Cultural History [1]	
HIST 111	Ancient Greece [1]	
HIST 112	Ancient Rome [1]	
HIST 113	Early Medieval Europe	
HIST 114	Europe in the High Middle Ages	
HIST 115	The Renaissance and Reformation in Europe	
HIST 116	Europe, 1648-1815, The Age of Revolution [1]	
HIST 122A	History of Women in Western Civilization, Prehistory-Middle Ages [1]	
HIST 126	Evolution of Christianity to the Reformation [1]	
HIST 143A	Middle Eastern History to 1800 [1]	
HIST 148A	China: Antiquity to 1600 AD [1]	
Total Units		12

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects		
A1 - Oral Communication [2]		0
A2 - Written Communication [2]		0
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (3 Units)		
B1 - Physical Science [2]		0
B2 - Life Forms [2]		0
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5) [2]		0
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (3 Units)		
C1 - Arts		3
C2 - Humanities [2]		0
C1/C2 - Area C Course [2]		0
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area D: The Individual and Society (6 Units)		
Area D Course [2]		0
Area D Course [2]		0
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		15

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II [2]		0
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Military Studies

College of Social Sciences and Interdisciplinary Studies

Program Description

The Military Studies Minor is an appropriate and timely course of study for any student interested in defense policy, the military's role in society, and military history. The successful completion of the minor will provide additional recognition for students wishing to understand these important subjects.

The Military Studies Minor is an interdisciplinary minor of 21 units which provides a broad range perspective on a vital contemporary issue. The program focuses on the nature of human conflict, conflict resolution, international power relations, historical battles and campaigns, the military in domestic society, and myriad sub-topics. It enhances student exposure to, and understanding of, relevant military subjects. The Military Studies Minor is compatible with, and complements, several majors, i.e., Economics, Geography, Political Science, and History. It is also compatible with the ROTC Aerospace Studies academic training program.

Degree Program

Minor in Military Studies (p. 1017)

Contact Information

Dianne Hyson, Dean
Marya C. Endriga, Associate Dean
Amador Hall 255
(916) 278-6504

Minor in Military Studies

Units required for Minor: 21

Program Description

The Military Studies Minor is an interdisciplinary minor of 21 units which provides a broad range perspective on a vital contemporary issue. The program focuses on the nature of human conflict, conflict resolution, international power relations, historical battles and campaigns, the military in domestic society, and myriad sub-topics. It enhances student exposure to, and understanding of, relevant military subjects. The Military Studies Minor is compatible with, and complements, several majors, i.e., Economics, Geography, Government, and History.

Program Requirements

Code	Title	Units
HIST 124A	Warfare: Alexander to Napoleon	3
HIST 124B	European Warfare from the French Revolution to the Present	3
Select one from the following historical background courses:		3
AERO 145A	National Security and Preparation for Active Duty I	
HIST 118A	World War I: Causes, Conduct, Consequences	
HIST 118B	World War II: Causes, Conduct, Consequences	
HIST 153	Civil War and Reconstruction, 1840-1890	
HIST 159	History of US Foreign Relations	
HIST 160	The United States in Vietnam, 1940-1975	
Select one from the following military-political affairs courses:		3
AERO 135B	Leading People and Effective Communication II	
GOVT 130		
GOVT 131		
GOVT 133		
GOVT 135		
GOVT 139G		
Select one from the following regional context courses:		3
AERO 145B	National Security and Preparation for Active Duty II	
ECON 193	Development Economics	
GEOG 121	United States and Canada	
GEOG 127	Geography Of Africa	
GEOG 128	Geography Of Europe	
GOVT 144		
GOVT 147		
GOVT 148		
SOC 160	Asian Societies	
SOC 162	Middle Eastern Societies and Culture	
SOC 163	Conflict, Oil and Development in the Middle East	

Select one from the following conflict resolution courses:		3
AERO 135A	Leading People and Effective Communication I	
ANTH 105	Anthropology of War	
COMS 119	Conflict Resolution Through Communication	
ENVS 112	International Environmental Problems	
GOVT/JOUR 134		
Select from additional courses listed in the historical background, military-political affairs, and regional contexts groups		3
Total Units		21

Peace and Conflict Resolution

College of Social Sciences and Interdisciplinary Studies

Program Description

Peace and Conflict Resolution is an interdisciplinary minor with most of its courses drawn from the Social Sciences. The courses introduce students to the processes of understanding and changing social conditions in order to lead to a more peaceful, just, and conflict-free society and world.

We find that war and oppression are subject to study and to change, and the university is an appropriate setting for the study and pursuit of alternate means of resolving conflicts.

The minor complements a number of majors, including many in the Humanities, Social Sciences, and Professional Schools.

Degree Program

Minor in Peace and Conflict Resolution (p. 1018)

Special Features

- A philosophy basic to the study of Peace and Conflict Resolution is praxis, the creative combination of analysis and action. Students in the program are encouraged to develop the knowledge base, skills, and political courage necessary for effective leadership in a democratic society.
- The program's faculty is widely published and active in a number of fields related to peace and conflict resolution.
- The goal of the program is to educate adults to be responsible and courageous citizens, and, if the students choose, to become professional peace workers. To achieve this end we practice an interdisciplinary approach, drawing upon courses and faculty in several academic areas including anthropology, communication studies, economics, education, government, environmental studies, ethnic studies, and women's studies.

Contact Information

David R. Andersen-Rodgers, Program Coordinator
Tahoe Hall 3119
(916) 278-7095
david.andersen@csus.edu

Minor in Peace and Conflict Resolution

Units required for Minor: 21

Program Description

Peace and Conflict Resolution is an interdisciplinary minor with most of its courses drawn from the Social Sciences. The courses introduce students to the processes of understanding and changing social conditions in order to lead to a more peaceful, just, and conflict-free society and world.

Program Requirements

Code	Title	Units
GOVT 143		3
Select three of the following:		9
ANTH 105	Anthropology of War	
COMS 119	Conflict Resolution Through Communication	
CRJ 116	Restorative Justice and Conflict Resolution	
ENVS 112	International Environmental Problems	
GOVT 132		
GOVT/JOUR 134		
Select three elective courses from Peace and Conflict Resolution Studies with advisor approval.		9
Total Units		21

Peace Corps Prep Certificate

Units Required for Certificate: 19-33

Program Description

The Peace Corps Prep Certificate program is a collaboration between Sacramento State and the Peace Corps; it provides curricular and co-curricular preparation for students who are interested in international development work and potential Peace Corps service.

Admission Requirements

Application forms are available from the program website (http://www.csus.edu/ipge/peacecorpsprep.html) or by emailing the Program Advisor (peace-corps-prep@csus.edu).

Program Requirements

Code	Title	Units
Work Sector Training (9 Units)		
In consultation with Program Advisor, choose one of the Peace Corps work sectors and complete 9 units of coursework		9
Agricultural Work Sector		
The following courses may be taken by any Peace Corps Prep student		
ACCY 1	Accounting Fundamentals	
ACCY 2	Managerial Accounting	
ACCY 111	Intermediate Accounting I	
ACCY 121	Cost Accounting	
ACCY 122	Advanced Management Accounting	

ACCY 161	Government and Nonprofit Accounting
ACCY 190	International Accounting
ANTH 109	Ecological and Evolutionary Approaches to Anthropology
ANTH 115	Origins of Agriculture
ANTH 174	Anthropology of Food
BIO 1	Biodiversity, Evolution and Ecology
BIO 2	Cells, Molecules and Genes
BIO 7	Introduction to the Science of Biology
BIO 9	Our Living World: Evolution, Ecology and Behavior
BIO 10	Basic Biological Concepts
BIO 15L	Laboratory Investigations in Biology
BIO 103	Plants and Civilization
BIO 112	Plant Taxonomy
BIO 118	Natural Resource Conservation
BIO 128	Plant Anatomy and Physiology
BIO 157	General Entomology
BIO 160	General Ecology
BIO 186B	Ecological and Environmental Issues Seminar
CHEM 1A	General Chemistry I
CHEM 1B	General Chemistry II
ECON 1A	Introduction to Macroeconomic Analysis
ECON 1B	Introduction to Microeconomic Analysis
ECON 100A	Intermediate Macroeconomic Theory
ECON 100B	Intermediate Microeconomic Theory
ECON 110	Cost Benefit Analysis
ECON 120	Economics and Environmental Degradation
ECON 123	Resource Economics
ECON 140	Quantitative Economic Analysis
ECON 145	Economic Research Methods
ECON 193	Development Economics
ENTR 187	Entrepreneurship
ENVS 10	Introduction to Environmental Science
ENVS 138	Introduction to Environmental Sociology
ENVS 171	Environmental Politics and Policy
ENVS 187	Environmental Studies Seminar
FIN 101	Business Finance
FIN 134	Financial Management
GEOG 1	Physical Geography: The Distribution of Natural Phenomena
GEOG 2	Cultural Geography
GEOG 11	Laboratory in Physical Geography
GEOG 111	Elements Of Meteorology
GEOG 113	Climate
GEOG 115	Biogeography
GEOG 116	Global Climate Change
GEOG 117	Landforms
GEOG 118	Earth Transformed
GEOG 125	Geography Of East Asia
GEOG 127	Geography Of Africa
GEOG 131	California
GEOG 141	Geography of Economic Activity
GEOG 148	Urban and Regional Planning
GEOG 161	California's Water Resources
GEOG 192A	Geography Field Experience A
GEOG 192B	Geography Field Experience B
GEOG 192C	Geography Field Experience C
GEOG 193B	Field Geography: Suburban-Rural
GEOG 193C	Field Geography: Physical
HROB 101	The Management of Contemporary Organizations
HROB 152	Management Skills Seminar
HROB 154	Strategic Human Resources Management
HRS 154	Food, Farming, and the Sacred
IBUS 190	International Business
MGMT 20	Introduction To Business
MGMT 102	Business Communications
MGMT 117	Business, Ethics and Society
MKTG 123	Public Relations and Ethics in Business
MKTG 126	Salesmanship
MKTG 160	Principles of Quality Management
PHIL 192E	Topics in Epistemology
POLS 131	International Organization
POLS 139B	International Politics and International Development
POLS 139S	Topics in Human Security
POLS 171	Environmental Politics and Policy
RPTA 150	Ecology Of Resource Areas
SOC 138	Environmental Sociology
SOC 139	Animals in Society
The following courses may only be taken by Peace Corps Prep students who are in the Business Honors Program	
BHON 102	Business Communication
BHON 104	Fundamentals of Organizational Behavior
BHON 106	Business Data Analysis
BHON 107	Business Finance
BHON 108	Fundamentals in Marketing
BHON 109	Operations Management
BHON 120	Business Intelligence
BHON 130	Value Chain and Supply Chain Management
BHON 140	Enterprise Resource Planning and Infrastructure
BHON 170	Strategy and Leadership
BHON 190	Practicum in Business
The following courses may only be taken by Peace Corps Prep students who are in the Honors Program	
ENVS 10H	Honors Environmental Science
GEOG 2H	Cultural Geography - Honors
The following courses may only be taken by Peace Corps Prep students who are Biology Majors	
BIO 139	General Microbiology
BIO 145	The Diversity of Microorganisms
BIO 180	Advanced Molecular Biology
BIO 184	General Genetics
The following courses may only be taken by Peace Corps Prep students who are Business Majors	
ENTR 185	Venture Growth Strategies

GM 105	Strategic Management
GM 170	Fundamentals of Business Strategy
MKTG 101	Principles Of Marketing
MKTG 115	Marketing Analytics
MKTG 121	Marketing Research and Information
MKTG 122	Buyer Behavior
MKTG 127	Sales Management
MKTG 129	Marketing Management
MKTG 181	Supply Chain Logistics Management
MKTG 186	Advanced Operations Planning and Control
MKTG 188	Supply Chain Modeling and Analysis
MKTG 190	Multinational Marketing
The following courses may only be taken by Peace Corps Prep students who are Civil Engineering Majors	
CE 100	Engineering Geology
CE 137	
CE 138	
CE 139	
The following courses may only be taken by Peace Corps Prep students who are Engineering Majors	
ENGR 105	Sustainable Design and Construction
The following courses may only be taken by Peace Corps Prep students who are Environmental Studies Majors	
ENVS 121	Field Methods in Environmental Science
ENVS 144	Sustainability Science & Policy
ENVS 147	Urban Agriculture and Aquaponics
ENVS 149	Agroecology
ENVS 151	Restoration Ecology
ENVS 158	Wetlands Ecology
ENVS 163	Ethnoecology
The following courses may only be taken by Peace Corps Prep students who are Recreation, Parks, and Tourism Administration Majors	
RPTA 189	California Wine and Agri-Tourism
Community Economic Development Work Sector	
The following courses may be taken by any Peace Corps Prep student	
ACCY 1	Accounting Fundamentals
ACCY 2	Managerial Accounting
ACCY 111	Intermediate Accounting I
ACCY 112	Intermediate Accounting II
ACCY 113	Intermediate Accounting III
ACCY 117	Advanced Accounting
ACCY 121	Cost Accounting
ACCY 122	Advanced Management Accounting
ACCY 161	Government and Nonprofit Accounting
ACCY 190	International Accounting
AIS 141	Accounting Information Systems Development
AIS 142	Enterprise and E-Commerce Accounting Models
ANTH 127	Cultural Resource Management in Theory and Practice
ANTH 142	Political Anthropology
ANTH 161	African Cultures and Societies
ANTH 163	Urban Anthropology
ANTH 175	Anthropology of Globalization
ANTH 181	Anthropology of Human Rights
ART 128	Art and the Artist in the Marketplace
ART 193	Art Gallery Management
ART 196U	
COMS 26	Introduction to Capturing and Editing Digital Media
COMS 55	Media Communication and Society
COMS 101	Information Management and Privacy
COMS 103	Presentational Speaking in the Organization
COMS 104	Persuasive Public Speaking
COMS 106	Digital Media Creation - An Introduction
COMS 117	Multimedia Communication
COMS 118	Survey of Public Relations
COMS 120	History of the Media
COMS 122	Writing for Interactive Media
COMS 123	Writing for Public Relations
COMS 136	Introduction to Electronic Publishing
COMS 140	Online Collaboration
COMS 144	Developing Rich Media Websites
COMS 145	Organizational Communication
COMS 150	Mass Communication Theories and Effects
COMS 158	Public Relations Planning and Management
COMS 160	Political Communication
COMS 170	Data Analysis in Communication Research
COMS 174	International Communication
COMS 180	Senior Seminar in Organizational Communication
COMS 183	Senior Seminar in Media Issues and Ethics
COMS 187	Issue Management and Case Studies in Public Relations
COMS 189	Practicum in Communication Training
COMS 190	Human Communication on the Internet
COMS 191	New Media and Society
CSC 1	Introduction to Computer Science
CSC 8	Introduction to Internet Technologies
CSC 10	Introduction to Programming Logic
CSC 15	Programming Concepts and Methodology I
CSC 20	Programming Concepts and Methodology II
CSC 25	Introduction to C Programming
CSC 28	Discrete Structures for Computer Science
CSC 35	Introduction to Computer Architecture
CSC 115	Internet Security
ECON 1A	Introduction to Macroeconomic Analysis
ECON 1B	Introduction to Microeconomic Analysis
ECON 100A	Intermediate Macroeconomic Theory
ECON 100B	Intermediate Microeconomic Theory
ECON 101	History of Economic Thought
ECON 110	Cost Benefit Analysis
ECON 120	Economics and Environmental Degradation
ECON 123	Resource Economics
ECON 130	Public Finance
ECON 132	State and Local Government Finance

ECON 135	Money and Banking
ECON 138	Monetary and Fiscal Policy
ECON 140	Quantitative Economic Analysis
ECON 141	Introduction to Econometrics
ECON 180	Urban Economics
ECON 181	Economics of Racism
ECON 184	Women and the Economy
ECON 193	Development Economics
ENGL 120P	Professional Writing
ENTR 187	Entrepreneurship
ENTR 189	Corporate Entrepreneurship
FACS 139	
FACS 140	Family Resource Management
FACS 141	Family Finance
FIN 19	Real Estate Principles
FIN 101	Business Finance
FIN 134	Financial Management
FIN 137	Financial Institutions and Markets
FIN 141	Managerial Real Estate Law
FIN 190	Multinational Business Finance
GEOG 141	Geography of Economic Activity
GEOG 143	Environmental Hazards and Society
GEOG 148	Urban and Regional Planning
GERO 102	Social Policy for an Aging Society
GPHD 5	Introduction to Graphic Design
GPHD 10	Introduction to Digital Design
GPHD 20	History Of Graphic Design
GPHD 30	Visual Basics II
HROB 101	The Management of Contemporary Organizations
HROB 151	Management of Human Resources
HROB 152	Management Skills Seminar
HROB 153	Employment Law
HROB 154	Strategic Human Resources Management
HROB 155	Conflict Management and Negotiation
HROB 156	Current Trends and Emerging Issues
HROB 157	Labor Relations
HROB 158	Special Topics in Human Resource Management
HROB 159	Special Topics in Organizational Behavior
IBUS 190	International Business
JOUR 30	News Writing
JOUR 50	Media Literacy and Critical Thinking
JOUR 55	Media Communication and Society
JOUR 100	
JOUR 120	History Of The Media
JOUR 123	Writing for Public Relations
JOUR 125A	
JOUR 125B	
JOUR 128	News Editing
JOUR 130A	News Reporting I
JOUR 130B	News Reporting II
JOUR 132	Digital Magazine
JOUR 135	Public Affairs Reporting
JOUR 158	Public Relations Planning and Management
JOUR 193	The Media Business
MATH 24	Modern Business Mathematics
MGMT 10	Introduction to Business Law
MGMT 20	Introduction To Business
MGMT 102	Business Communications
MGMT 117	Business, Ethics and Society
MIS 1	Word Processing
MIS 2	Spreadsheets
MIS 3	Presentation Graphics
MIS 15	Introduction to Business Programming
MIS 101	Computer Information Systems for Management
MIS 120	Advanced Object-Oriented Business Programming
MIS 122	Object-Oriented Programming for Business in Java
MIS 124	Web Development for Business Applications
MIS 150	Database Systems for Business
MIS 151	End-User Database Application Development for Business
MIS 160	Systems Development Life Cycle
MIS 161	Information Systems Practicum
MIS 163	Business Process Engineering and ERP Configuration
MIS 173	Microcomputers for Managers
MIS 182	Topics In MIS
MIS 183	Business Intelligence Applications
MKTG 123	Public Relations and Ethics in Business
MKTG 126	Salesmanship
MKTG 160	Principles of Quality Management
PHIL 102	Professional and Public Service Ethics
PHIL 103	Business and Computer Ethics
POLS 131	International Organization
POLS 139B	International Politics and International Development
POLS 139S	Topics in Human Security
PPA 100	Introduction to Public Policy and Administration
PSYC 108	Organizational Psychology
PSYC 169	Industrial Psychology
RPTA 96D	
RPTA 154	Management of Recreation Facilities
RPTA 164	Leadership and Fundraising for Non-profit Organizations
RPTA 165	Volunteer Management in Recreation, Parks and Tourism
RPTA 183	Marketing Recreation Services
SOC 164	Sociology of Globalization
SOC 175	Work and Occupations
WOMS 138	Women and Work

The following courses may only be taken by Peace Corps Prep students who are in the Business Honors Program

BHON 102	Business Communication
BHON 104	Fundamentals of Organizational Behavior
BHON 105	Introduction to Management Information Systems
BHON 106	Business Data Analysis

BHON 107	Business Finance
BHON 108	Fundamentals in Marketing
BHON 109	Operations Management
BHON 120	Business Intelligence
BHON 130	Value Chain and Supply Chain Management
BHON 140	Enterprise Resource Planning and Infrastructure
BHON 150	Entrepreneurship and Innovation
BHON 160	Project Management
BHON 170	Strategy and Leadership
BHON 190	Practicum in Business
The following courses may only be taken by Peace Corps Prep students who are Business Majors	
DS 133	
ENTR 185	Venture Growth Strategies
FIN 138	Principles of Risk Management and Insurance
FIN 139	Business Property and Liability Insurance
FIN 140	Employee Benefits
FIN 142	Real Estate Finance
FIN 143	Real Estate Investment
FIN 150	Capstone in Professional Financial Planning
GM 105	Strategic Management
GM 170	Fundamentals of Business Strategy
MIS 132	
MIS 181	Machine Learning Applications in Business
MIS 191	Culminating Experience
MKTG 101	Principles Of Marketing
MKTG 115	Marketing Analytics
MKTG 121	Marketing Research and Information
MKTG 122	Buyer Behavior
MKTG 124	Retail Management
MKTG 125	Advertising
MKTG 127	Sales Management
MKTG 129	Marketing Management
MKTG 130	Digital Marketing
MKTG 181	Supply Chain Logistics Management
MKTG 186	Advanced Operations Planning and Control
MKTG 188	Supply Chain Modeling and Analysis
MKTG 190	Multinational Marketing
OPM 101	Operations Management
The following courses may only be taken by Peace Corps Prep students who are Computer Science Majors	
CSC 60	Introduction to Systems Programming in UNIX
CSC 130	Data Structures and Algorithm Analysis
CSC 131	Computer Software Engineering
CSC 134	Database Management Systems
CSC 135	Computing Theory and Programming Languages
CSC 137	Computer Organization
CSC 171	Software Engineering Project Management
The following courses may only be taken by Peace Corps Prep students who are Criminal Justice Majors	
CRJ 160	Justice and Public Safety Administration
CRJ 163	Leadership in Criminal Justice and Public Safety
The following courses may only be taken by Peace Corps Prep students who are Engineering Majors	
ENGR 105	Sustainable Design and Construction
ENGR 140	Engineering Economics
The following courses may only be taken by Peace Corps Prep students who are Health Science Majors	
HLSC 116	
HLSC 152	
The following courses may only be taken by Peace Corps Prep students who are Kinesiology Majors	
KINS 132	Planning, Designing and Managing a Fitness Center
The following courses may only be taken by Peace Corps Prep students who are Psychology Majors	
PSYC 142	Community Psychology
The following courses may only be taken by Peace Corps Prep students who are Recreation, Parks, and Tourism Administration Majors	
RPTA 96B	
RPTA 96C	
RPTA 105	Management in Recreation, Parks and Tourism
RPTA 107	Grant Writing for Leisure Organizations
RPTA 136	Program and Event Planning in Recreation, Parks and Tourism
RPTA 139	Conference and Meeting Planning
RPTA 166	Administration in Recreation, Parks and Tourism
RPTA 167	Professional Organization Leadership
RPTA 184	Hospitality Administration
RPTA 185	Advanced Seminar in Commercial Recreation Administration
Education Work Sector	
The following courses may be taken by any Peace Corps Prep student	
ANTH 101	Cultural Diversity
ANTH 165	Applied Anthropology
ANTH 169	Research Methods in Linguistic Anthropology
ANTH 176	Museums, Culture, and Society
ANTH 177	Museum Methods
ART 133	Art Education for Children
ART 134	Interdisciplinary Art
ART 135	Overview of Secondary Art Education
ART 137	Art for Exceptional Children
BIO 2	Cells, Molecules and Genes
BIO 7	Introduction to the Science of Biology
BIO 9	Our Living World: Evolution, Ecology and Behavior
BIO 10	Basic Biological Concepts
BIO 15L	Laboratory Investigations in Biology
BIO 20	Biology: A Human Perspective
BIO 22	Introductory Human Anatomy
BIO 25	Human Anatomy and Physiology I
BIO 26	Human Anatomy and Physiology II
CHDV 30	Human Development
CHDV 35	Child and Adolescent Development

CHDV 141	History of Childhood: International and Interdisciplinary Perspectives
CHDV 145	Controversial Issues in Childhood Development, Education, and Social Policy
CHEM 1A	General Chemistry I
CHEM 1B	General Chemistry II
CHEM 4	Chemical Calculations
CHEM 6A	Introduction to General Chemistry
CHEM 6B	Introduction to Organic and Biological Chemistry
CHEM 20	Organic Chemistry Lecture--Brief Course
CHEM 20L	Introductory Organic Chemistry Laboratory
CHEM 24	Organic Chemistry Lecture I
CHEM 25	Organic Chemistry Laboratory
CHEM 31	Quantitative Analysis
CHEM 106	Chemical Concepts
CHEM 110	Inorganic Chemistry Lecture
CHEM 124	Organic Chemistry Lecture II
CHEM 140A	Physical Chemistry Lecture I
CHEM 140B	Physical Chemistry Lecture II
CHEM 141	Physical Chemistry Laboratory
CHEM 160A	Structure and Function of Biological Molecules
CHEM 160B	Metabolism and Regulation of Biological Systems
CHEM 161	General Biochemistry
COMS 4	Introduction to Public Speaking
COMS 8	Interpersonal Communication Skills
COMS 160	Political Communication
CPE 64	Introduction to Logic Design
CSC 1	Introduction to Computer Science
CSC 8	Introduction to Internet Technologies
CSC 10	Introduction to Programming Logic
CSC 15	Programming Concepts and Methodology I
CSC 20	Programming Concepts and Methodology II
CSC 25	Introduction to C Programming
CSC 28	Discrete Structures for Computer Science
CSC 35	Introduction to Computer Architecture
DEAF 60	Introduction to Deaf Studies
DNCE 160	Creative Dance for Children
ECON 152	Economics of Education
ECON 184	Women and the Economy
EDUC 18	Mathematical Practices Across Cultures
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab
EDUC 120	Literature For Children
EDUC 121	Multicultural Children's Literature
EDUC 160	Urban Education
EDUC 165	Sex Role Stereotyping in American Education
EDUC 170	Bilingual Education: Introduction to Educating English Learners
EEE 64	Introduction to Logic Design
ENGL 110A	Linguistics and the English Language
ENGL 110C	Technology in Second Language Teaching
ENGL 110J	Traditional Grammar and Standard Usage
ENGL 110P	Second Language Learning and Teaching
ENGL 110Q	English Grammar for ESL Teachers
ENGL 116A	Studies in Applied Linguistics
ENGL 116B	Children's Literary Classics
ENGL 125A	Literature and Film for Adolescents
ENGL 125B	Writing and the Young Writer
ENGL 125E	Academic Reading and Writing for Second Language Students
ENGL 125F	Teaching Oral Skills
ENGL 180Z	Topics in Multi-Ethnic Literatures
ENGL 185B	Twentieth Century Fiction by Women
ENVS 10	Introduction to Environmental Science
FACS 52	
FACS 152	
FACS 155	
GEOG 1	Physical Geography: The Distribution of Natural Phenomena
GEOG 2	Cultural Geography
GEOG 5	Violent Weather/Changing Atmosphere
GEOG 11	Laboratory in Physical Geography
GEOG 100	Themes In World Geography
GEOG 115	Biogeography
GEOG 118	Earth Transformed
GEOL 8	Earth Science
GEOL 8L	Earth Science Lab
GEOL 8T	Earth Science Lab for Teachers
GEOL 10	Physical Geology
GEOL 10L	Physical Geology Lab
GEOL 12	Historical Geology
GEOL 12L	Historical Geology Lab
GEOL 100	Earth Materials - Rocks and Minerals
GEOL 102	Igneous and Metamorphic Petrology
GEOL 103	Sedimentology/Stratigraphy
GEOL 105	Paleontology
GEOL 110A	Structural Geology and Tectonics
GEOL 111A	Field Geology
GEOL 111B	Field Techniques
GEOL 112	Geophysics For Geologists
HIST 15H	Major Problems in U.S. History
HIST 17A	United States History, 1607-1877
HIST 17B	United States History, 1877-Present
HIST 50	World Civilizations, Beginnings-1600
HIST 51	World History from 1500 to the Present.
HIST 107	History of the Physical Sciences
HIST 133	Twentieth-Century World History
ID 197	Training and Leadership for Orientation Leaders
MATH 1	Mathematical Reasoning
MATH 9	
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics
MATH 24	Modern Business Mathematics

MATH 26A	Calculus I for the Social and Life Sciences
MATH 26B	Calculus II for the Social and Life Sciences
MATH 29	Pre-Calculus Mathematics
MATH 29A	Pre-Calculus Mathematics A
MATH 29B	Pre-Calculus Mathematics B
MATH 30	Calculus I
MATH 31	Calculus II
MATH 32	Calculus III
MATH 35	Introduction to Linear Algebra
MATH 45	Differential Equations for Science and Engineering
MATH 107A	Fundamental Mathematical Concepts
MATH 107B	Fundamental Mathematical Concepts
MATH 107C	Elementary Mathematics and the Learning Process
MATH 110A	Modern Algebra
MATH 110B	Modern Algebra
MATH 121	College Geometry
MATH 198	Seminar for Mathematics Tutors
MUSC 101	Experiences In Music
PHSC 107	History of the Physical Sciences
PHYS 1	Physical Reasoning and Calculation
PHYS 2	Topics in Elementary Physics
PHYS 5A	General Physics: Mechanics, Heat, Sound
PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics
PHYS 10	Physics In Our World
PHYS 10L	Physics in Our World Laboratory
PHYS 11A	General Physics: Mechanics
PHYS 11B	General Physics: Heat, Light, Sound, Modern Physics
PHYS 11C	General Physics: Electricity and Magnetism
PHYS 105	Mathematical Methods in Physics
PHYS 106	Introduction to Modern Physics
PHYS 107	Conceptual Physics and Scientific Inquiry
PHYS 110	Classical Mechanics
PHYS 115	Electronics and Instrumentation
PHYS 124	Thermodynamics and Statistical Mechanics
PHYS 135	Electricity And Magnetism
PHYS 175	Advanced Physics Laboratory
POLS 131	International Organization
POLS 139B	International Politics and International Development
POLS 139S	Topics in Human Security
PSYC 110	Cognitive Psychology
PSYC 148	Child Psychology
PSYC 149	Psychology of Adolescence
PSYC 185	Psychology of Exceptional Children
RPTA 148	Experiential Education in Outdoor Recreation Settings
RPTA 153	Environmental Interpretation
STAT 1	Introduction to Statistics
STAT 10A	Introductory Statistics with Developmental Mathematics
STAT 10B	Introductory Statistics with Developmental Mathematics
STAT 50	Introduction to Probability and Statistics
SOC 140	Sociology of Education
SOC 170	Sociology of Children and Adolescents
SOC 185	Bullying as a Social Experience
SSCI 193	Integrating History and Social Science
THEA 115A	Multicultural Puppetry
THEA 118	Children's Theatre

The following courses may only be taken by Peace Corps Prep students who are in the Honors Program

ENVS 10H	Honors Environmental Science
GEOG 2H	Cultural Geography - Honors
HIST 51H	World History from 1500 to the Present
HONR 102	The Public Good Through the Visual and Performing Arts
MATH 15H	Honors Mathematical Reasoning

The following courses may only be taken by Peace Corps Prep students who are Art Majors

ART 139	Directed Research in Art Education
ART 192C	Senior Seminar in Art Education

The following courses may only be taken by Peace Corps Prep students who are Communication Sciences and Disorders Majors

CSAD 112	Language Science and Development
CSAD 142	Topics in Autism Spectrum Disorders

The following courses may only be taken by Peace Corps Prep students who are Computer Science Majors

CSC 60	Introduction to Systems Programming in UNIX
CSC 130	Data Structures and Algorithm Analysis
CSC 131	Computer Software Engineering
CSC 134	Database Management Systems
CSC 135	Computing Theory and Programming Languages
CSC 137	Computer Organization
CSC 138	Computer Networks and Internets

The following courses may only be taken by Peace Corps Prep students who are Engineering Majors

CPE 138	Computer Networks and Internets
CPE 142	Advanced Computer Organization
CPE 151	Cmos And Vlsi
CPE 185	Computer Interfacing
EEE 108	Electronics I
EEE 108L	Electronics I Laboratory
EEE 174	Introduction to Microprocessors
ENGR 1	Introduction to Engineering
ENGR 1A	Fundamentals of Engineering
ENGR 6	Engineering Graphics and CADD (Computer Aided Drafting and Design)
ENGR 6W	Engineering Graphics and CADD Workshop
ENGR 45	Engineering Materials
ENGR 50	Computational Methods and Applications
ENGR 70	Engineering Mechanics
ME 105	Introduction to Technical Problem Solving
ME 108	Professional Topics for Mechanical Engineers

ME 116	Machinery Design I
ME 128	Thermal-Fluid Systems
ME 180	Mechanical Properties of Materials
The following courses may only be taken by Peace Corps Prep students who are Environmental Studies Majors	
ENVS 110	Contemporary Environmental Issues
The following courses may only be taken by Peace Corps Prep students who are Health Science Majors	
HLSC 136	
The following courses may only be taken by Peace Corps Prep students who are History Majors	
HIST 198	Summative Assessment for Teachers
The following courses may only be taken by Peace Corps Prep students who are Music Majors	
MUSC 162	Foundations of Music Education
MUSC 164	Music in General Education
The following courses may only be taken by Peace Corps Prep students who are Physical Education Majors	
BIO 30	Anatomy & Physiology - Brief Course
Environment Work Sector	
The following courses may be taken by any Peace Corps Prep student	
ANTH 108	Economic Anthropology
ANTH 109	Ecological and Evolutionary Approaches to Anthropology
ANTH 115	Origins of Agriculture
ANTH 124	Environmental Archaeology
ANTH 174	Anthropology of Food
ANTH 175	Anthropology of Globalization
ANTH 181	Anthropology of Human Rights
ANTH 196T	Zooarchaeology
BIO 1	Biodiversity, Evolution and Ecology
BIO 2	Cells, Molecules and Genes
BIO 7	Introduction to the Science of Biology
BIO 9	Our Living World: Evolution, Ecology and Behavior
BIO 10	Basic Biological Concepts
BIO 15L	Laboratory Investigations in Biology
BIO 103	Plants and Civilization
BIO 118	Natural Resource Conservation
BIO 160	General Ecology
BIO 179	Conservation Biology & Wildlife Management
BIO 186B	Ecological and Environmental Issues Seminar
COMS 145	Organizational Communication
ECON 120	Economics and Environmental Degradation
ECON 123	Resource Economics
ENVS 10	Introduction to Environmental Science
ENVS 11	Environmental Issues and Critical Thinking
ENVS 122	Environmental Impact Analysis: CEQA and NEPA
ENVS 128	Environment and the Law
ENVS 138	Introduction to Environmental Sociology
ENVS 165	American Environmental History
ENVS 171	Environmental Politics and Policy
ENVS 187	Environmental Studies Seminar
GEOG 1	Physical Geography: The Distribution of Natural Phenomena
GEOG 2	Cultural Geography
GEOG 3	Introduction to Maps and Geographic Technologies
GEOG 5	Violent Weather/Changing Atmosphere
GEOG 11	Laboratory in Physical Geography
GEOG 100	Themes In World Geography
GEOG 105	Computer Cartography
GEOG 107	Remote Sensing
GEOG 109	Geographic Information Systems
GEOG 110	Advanced Geographic Information Systems
GEOG 111	Elements Of Meteorology
GEOG 113	Climate
GEOG 115	Biogeography
GEOG 116	Global Climate Change
GEOG 117	Landforms
GEOG 118	Earth Transformed
GEOG 121	United States and Canada
GEOG 125	Geography Of East Asia
GEOG 127	Geography Of Africa
GEOG 128	Geography Of Europe
GEOG 131	California
GEOG 141	Geography of Economic Activity
GEOG 143	Environmental Hazards and Society
GEOG 147	Urban Geography
GEOG 148	Urban and Regional Planning
GEOG 161	California's Water Resources
GEOG 163	Applied GIS
GEOG 181	Quantitative Methods in Geography
GEOG 190	Senior Research Seminar in Geography
GEOG 192A	Geography Field Experience A
GEOG 192B	Geography Field Experience B
GEOG 192C	Geography Field Experience C
GEOG 193B	Field Geography: Suburban-Rural
GEOG 193C	Field Geography: Physical
HIST 165	American Environmental History
HRS 154	Food, Farming, and the Sacred
HRS 155	Spirit and Nature
LBST 110	California Studies
PHIL 192E	Topics in Epistemology
POLS 128	Environment and the Law
POLS 171	Environmental Politics and Policy
PSYC 116	Animal Behavior
RPTA 34	The Outdoor Recreation Experience
RPTA 148	Experiential Education in Outdoor Recreation Settings
RPTA 149	Developing and Programming Adventure Experiences
RPTA 150	Ecology Of Resource Areas
RPTA 151	Visitor Management in Recreation Areas
RPTA 152	Law Enforcement for Forest and Park Rangers
RPTA 153	Environmental Interpretation

SOC 138	Environmental Sociology
SOC 139	Animals in Society
The following courses may only be taken by Peace Corps Prep students who are in the Honors Program	
ENVS 10H	Honors Environmental Science
GEOG 2H	Cultural Geography - Honors
HONR 101	Science and the Public Good
The following courses may only be taken by Peace Corps Prep students who are Engineering Majors	
CE 100	Engineering Geology
CE 137	
CE 138	
CE 139	
CE 170	Principles of Environmental Engineering
CE 172	
CE 173	
EEE 135	Renewable Electrical Energy Sources and Grid Integration
EEE 136	Smart Electric Power Grid
EEE 142	Power System Analysis II
ENGR 105	Sustainable Design and Construction
ME 121	Solar Thermal and Energy Storage Systems
ME 122	Geothermal and Bioenergy Systems
ME 123	Wind, Hydro and Ocean Energy
ME 154	Alternative Energy Systems
ME 157	Solar Energy Engineering
The following courses may only be taken by Peace Corps Prep students who are Environmental Studies Majors	
ENVS 110	Contemporary Environmental Issues
ENVS 111	Environmental Ethics
ENVS 112	International Environmental Problems
ENVS 120	Quantitative Methods for Environmental Science
ENVS 121	Field Methods in Environmental Science
ENVS 130	Environmental Toxicology
ENVS 144	Sustainability Science & Policy
ENVS 147	Urban Agriculture and Aquaponics
ENVS 149	Agroecology
ENVS 151	Restoration Ecology
ENVS 158	Wetlands Ecology
ENVS 163	Ethnoecology
The following courses may only be taken by Peace Corps Prep students who are Recreation, Parks, and Tourism Administration Majors	
RPTA 42	Recreation and Parks: Natural, Cultural, and Heritage Resources
Health Work Sector	
The following courses may be taken by any Peace Corps Prep student	
ANTH 150	Human Osteology
ANTH 153	Evolutionary Medicine
ANTH 155	Fundamentals of Biological Anthropology
ANTH 156	Evolution of Human Behavior
ANTH 163	Urban Anthropology
ANTH 174	Anthropology of Food
ANTH 181	Anthropology of Human Rights
BIO 10	Basic Biological Concepts
BIO 15L	Laboratory Investigations in Biology
BIO 20	Biology: A Human Perspective
BIO 22	Introductory Human Anatomy
BIO 25	Human Anatomy and Physiology I
BIO 26	Human Anatomy and Physiology II
BIO 39	Microbiology for Allied Health Students
BIO 104	Physiology of Human Reproduction
BIO 131	Systemic Physiology
BIO 131A	Advanced Problems in Physiology
BIO 132	Neurophysiology
BIO 133	Cardiovascular, Respiratory and Renal Physiology
BIO 140	Medical Microbiology and Emerging Infectious Diseases
BIO 152	Human Parasitology
BIO 185	Topics in Biology
BIO 186A	Cell and Molecular Biology Seminar
BIO 186C	Introduction to Health Careers Seminar
CHDV 30	Human Development
CHDV 143	Mind and Brain in Developmental Context
CHDV 157	Infant and Toddler: Development and Care
CHEM 5	
CHEM 6B	Introduction to Organic and Biological Chemistry
CHEM 160A	Structure and Function of Biological Molecules
CHEM 160B	Metabolism and Regulation of Biological Systems
CHEM 161	General Biochemistry
CHEM 162	General Biochemistry Laboratory
ECON 153	Health Economics
FACS 10	
FACS 52	
FACS 112	
FACS 113	
FACS 152	
FACS 159	
GEOG 143	Environmental Hazards and Society
GERO 100	Aging Issues in Contemporary America
GERO 101	Elder Care Continuum Services and Strategies
GERO 103	Applied Care Management in Gerontological Practice
GERO 121	Strategies for Optimal Aging
GERO 122	Managing Disorders in Elders
HIST 18	Health, Medicine, and Science in America, 1600-Present
HIST 175	
NURS 14	Pharmacology
NURS 160	Human Sexuality
NURS 168	The Brain and Gender-Related Differences
PHIL 104	Bioethics
PHIL 192B	Topics in Bioethics
POLS 131	International Organization

POLS 139B	International Politics and International Development
POLS 139S	Topics in Human Security
PSYC 2	Introductory Psychology
PSYC 111	Foundations of Behavioral Neuroscience
PSYC 117	Drugs and Behavior
PSYC 134	Psychology of Human Sexuality
PSYC 137	Stress Management
PSYC 148	Child Psychology
PSYC 149	Psychology of Adolescence
PSYC 150	Psychological Aspects of Aging
PSYC 151	Psychological Aspects of Death and Dying
PSYC 152	Psychological Aspects of Health, Wellness, and Illness
PSYC 157	Psychology of Women
PSYC 168	Abnormal Psychology
PSYC 171	Applied Behavior Analysis
SOC 5	Exploring Issues Facing Contemporary Families
SOC 144	Sociology of Health and Illness
STAT 1	Introduction to Statistics
STAT 10A	Introductory Statistics with Developmental Mathematics
STAT 10B	Introductory Statistics with Developmental Mathematics
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class
SWRK 118	Chemical Dependency and Social Work Practice
SWRK 129	Human Sexuality in Social Work Perspectives
SWRK 151	Health Services and Systems

The following courses may only be taken by Peace Corps Prep students who are Biology Majors

BIO 134	Medical Mycology
BIO 135	Endocrinology
BIO 139	General Microbiology
BIO 143	General Virology
BIO 144	Pathogenic Bacteriology
BIO 149A	Immunology
BIO 149C	Advanced Problems in Immunology
BIO 180	Advanced Molecular Biology
BIO 183	Cancer Biology
BIO 183A	Advanced Problems in Cancer Biology
BIO 184	General Genetics
BIO 187	Advanced Cell Biology

The following courses may only be taken by Peace Corps Prep students who are Communication Sciences and Disorders Majors

CSAD 111	Anatomy and Physiology of the Speech Mechanism
CSAD 125	Developmental and Acquired Neurogenic Language Disorders Across the Lifespan
CSAD 127	Introduction to Medical Speech Pathology
CSAD 130	Introduction to Audiology
CSAD 142	Topics in Autism Spectrum Disorders

The following courses may only be taken by Peace Corps Prep students who are Engineering Majors

CE 137	
CE 138	
CE 139	
CE 170	Principles of Environmental Engineering
CE 172	
CE 173	

The following courses may only be taken by Peace Corps Prep students who are Environmental Studies Majors

ENVS 130	Environmental Toxicology

The following courses may only be taken by Peace Corps Prep students who are Family and Consumer Sciences Majors

FACS 9	

The following courses may only be taken by Peace Corps Prep students who are Health Science Majors

HLSC 50	

The following courses may only be taken by Peace Corps Prep students who are Kinesiology Majors

KINS 99	Exercise for Healthy Living

The following courses may only be taken by Peace Corps Prep students who are Nursing Majors

NURS 53	Paramedic Skills Part 1
NURS 54	Paramedic Skills Part 2
NURS 111	Introduction to Professional Nursing
NURS 112	Nursing Care Of Adults
NURS 113	Professional Nursing Communication, Assessment and Skills
NURS 119	Mental Health Nursing for the LVN 30-Unit Option
NURS 120	Nursing Application of Research and Critical Analysis
NURS 123	Nursing Families in Complex Illness
NURS 129	Mental Health Nursing
NURS 133	Leadership and Management for the LVN to RN
NURS 136	Nursing Laboratory for the Childbearing Family
NURS 137	Nursing the Childbearing Family
NURS 138	Nursing the Childrearing Family
NURS 139	Nursing Laboratory for the Childrearing Family
NURS 143	Leadership and Management in Nursing Practice
NURS 144	Community Health Nursing
NURS 145	Clinical Leadership and Professional Role Development
NURS 171	Transitional Concepts: The Baccalaureate Nurse
NURS 174	Community Health Nursing: Concepts and Practice
NURS 178	Culminating Project

The following courses may only be taken by Peace Corps Prep students who are Physical Education Majors

BIO 30	Anatomy & Physiology - Brief Course

The following courses may only be taken by Peace Corps Prep students who are Psychology Majors

PSYC 100	Cross-Cultural Psychology
PSYC 115	Introduction to Neuroscience

The following courses may only be taken by Peace Corps Prep students who are Recreation, Parks, and Tourism Administration Majors

RPTA 106	Introduction to Inclusive Recreation and Recreation Therapy
RPTA 115	Recreation Therapy Assessment and Documentation
RPTA 117	Recreation Therapy and Contemporary Aspects of Disability
RPTA 118	Recreation Therapy Facilitation Techniques
RPTA 119	Recreation Therapy Management and Advancement of the Profession

Youth in Development Work Sector

The following courses may be taken by any Peace Corps Prep student

ANTH 2	Introduction to Cultural Anthropology
ANTH 4	Language, Culture, and Critical Thinking
ANTH 101	Cultural Diversity
ANTH 102	The Nature of Culture
ANTH 108	Economic Anthropology
ANTH 142	Political Anthropology
ANTH 156	Evolution of Human Behavior
ANTH 164	Culture Change
ANTH 175	Anthropology of Globalization
ANTH 181	Anthropology of Human Rights
ANTH 183	Women Cross-Culturally
ANTH 186	Culture and Poverty
BIO 1	Biodiversity, Evolution and Ecology
BIO 2	Cells, Molecules and Genes
BIO 7	Introduction to the Science of Biology
BIO 9	Our Living World: Evolution, Ecology and Behavior
BIO 10	Basic Biological Concepts
BIO 20	Biology: A Human Perspective
BIO 22	Introductory Human Anatomy
BIO 25	Human Anatomy and Physiology I
BIO 26	Human Anatomy and Physiology II
BIO 39	Microbiology for Allied Health Students
CHDV 30	Human Development
CHDV 141	History of Childhood: International and Interdisciplinary Perspectives
CHDV 141	History of Childhood: International and Interdisciplinary Perspectives
CHDV 143	Mind and Brain in Developmental Context
CHDV 145	Controversial Issues in Childhood Development, Education, and Social Policy
CHDV 154	Issues in Parenting
COMS 105	Communication in Small Groups
COMS 119	Conflict Resolution Through Communication
COMS 143	Theories of Interpersonal Communication
COMS 161	Health Communication
COMS 162	Gender Ideology and Communication
COMS 173	Communication, Language and Culture
CRJ 1	Introduction to Criminal Justice and Society
CRJ 5	The Community and the Justice System
CRJ 112	Gangs and Threat Groups in America
CRJ 116	Restorative Justice and Conflict Resolution
DEAF 60	Introduction to Deaf Studies
DEAF 161	Deaf History
DEAF 162	Deaf Culture and Community
ECON 181	Economics of Racism
ECON 184	Women and the Economy
ECON 193	Development Economics
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab
EDUC 155	Introduction to Counseling
EDUC 156	Power, Privilege and Self Identity in Counseling
EDUC 157	Child and Family Psychopathology
EDUC 160	Urban Education
EDUC 165	Sex Role Stereotyping in American Education
ENGL 165F	Caribbean Literature
ENGL 180H	American Identities: In the Intersection of Race, Gender, and Ethnicity
ENGL 180Z	Topics in Multi-Ethnic Literatures
ENGL 185B	Twentieth Century Fiction by Women
ENGL 190Q	LGBTQ Literature
ENVS 10	Introduction to Environmental Science
ENVS 138	Introduction to Environmental Sociology
ETHN 10	Africa: Myths and Realities
ETHN 11	Introduction to Ethnic Studies
ETHN 70	Introduction to Pan African Studies
ETHN 71	Leadership in the African Diaspora
ETHN 114	Asian Americans and Globalization
ETHN 115	Biracial and Multiracial Identity in the US
ETHN 118	Asian American Women
ETHN 131	La Raza Studies
ETHN 132	La Mujer Chicana
ETHN 137	Race and Ethnicity in Latin America and Caribbean
ETHN 141	Politics of the African Diaspora
ETHN 145	Native Voice, Memory, and Biography
ETHN 155	Genocide and Holocaust Studies
ETHN 166	American Indigenous Families: Issues and Perspectives
ETHN 167	Asian American Families: Issues and Perspectives
ETHN 170	Pan African Studies
ETHN 171	African Religions and Philosophies
FACS 52	
FACS 140	Family Resource Management
FACS 152	
FACS 154	
FACS 162	
ID 22	Contemporary Issues and Social Change
ID 197	Training and Leadership for Orientation Leaders
MATH 198	Seminar for Mathematics Tutors
NURS 160	Human Sexuality
NURS 168	The Brain and Gender-Related Differences
PHIL 123	Philosophy and Feminism

PHIL 192J	
POLS 1	Essentials Of Government
POLS 131	International Organization
POLS 139B	International Politics and International Development
POLS 139S	Topics in Human Security
POLS 143	Causes of War, Causes of Peace
POLS 152	Political Psychology
POLS 157	Politics, Opinion, and Participation
POLS 165	Politics of the Underrepresented
POLS 166	Gender and Politics
POLS 168	Gay and Lesbian Politics
PSYC 2	Introductory Psychology
PSYC 108	Organizational Psychology
PSYC 111	Foundations of Behavioral Neuroscience
PSYC 117	Drugs and Behavior
PSYC 130	Personality Theories
PSYC 134	Psychology of Human Sexuality
PSYC 135	Psychology of Multicultural Groups
PSYC 137	Stress Management
PSYC 145	Social Psychology
PSYC 148	Child Psychology
PSYC 149	Psychology of Adolescence
PSYC 152	Psychological Aspects of Health, Wellness, and Illness
PSYC 157	Psychology of Women
PSYC 160	Homosexuality
PSYC 168	Abnormal Psychology
PSYC 185	Psychology of Exceptional Children
RPTA 32	Leadership and Group Development
RPTA 33	Race, Class Gender and Leisure
RPTA 34	The Outdoor Recreation Experience
RPTA 100	Recreation and Leisure Lifestyle Development
RPTA 122	Perspectives On Leisure
RPTA 128	Recreation Services for Diverse, Underserved and Underrepresented Populations
RPTA 129	Youth Development in Recreation, Parks & Tourism
RPTA 130	Community Sport Programming
RPTA 131	Morale Welfare and Recreation (MWR): Military Recreation Services
RPTA 132	Campus Recreation
RPTA 137	Community Organization
RPTA 148	Experiential Education in Outdoor Recreation Settings
RPTA 149	Developing and Programming Adventure Experiences
RPTA 153	Environmental Interpretation
RPTA 165	Volunteer Management in Recreation, Parks and Tourism
RPTA 167	Professional Organization Leadership
SOC 1	Principles of Sociology
SOC 3	Social Problems
SOC 5	Exploring Issues Facing Contemporary Families
SOC 10	Issues in Crime and Social Control
SOC 106	Births, Deaths and Borders
SOC 110	Urban Life and Problems
SOC 120	Ethnic and Race Relations
SOC 122	Immigration Studies
SOC 125	Social Inequalities
SOC 126	Sociology of Gender
SOC 127	Men, Masculinity and Society
SOC 128	Sociology Of Sexuality
SOC 130	Political Sociology
SOC 133	Sport in a Global Perspective
SOC 134	Sociology of Film
SOC 135	Sociology of Popular Culture
SOC 136	Social Movements
SOC 138	Environmental Sociology
SOC 140	Sociology of Education
SOC 144	Sociology of Health and Illness
SOC 150	Social Psychology
SOC 155	Criminology
SOC 156	Delinquency
SOC 158	Sociology of Deviance
SOC 164	Sociology of Globalization
SOC 166	The Family
SOC 168	Self and Society
SOC 170	Sociology of Children and Adolescents
SOC 171	Sociology of Religion
SOC 175	Work and Occupations
SOC 185	Bullying as a Social Experience
SOC 190	Sociology of Small Groups
SOC 194	Special Topics in Sociology
SWRK 95	Introduction to Social Work
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class
SWRK 118	Chemical Dependency and Social Work Practice
SWRK 126	Theories of Criminal Behavior
SWRK 129	Human Sexuality in Social Work Perspectives
SWRK 132	Social Work and Spirituality
SWRK 134	Crimes Without Victims
SWRK 136	Poverty and Homelessness in America
SWRK 137	The Child and the Law
SWRK 138	Violence In The Family
SWRK 151	Health Services and Systems
SWRK 153	Child Welfare Services
WOMS 50	Introduction to Gender & Sexuality
WOMS 115	Introduction to Women's Studies
WOMS 118	Asian American Women
WOMS 136	Gender, Race, and Class
WOMS 137	Women Of Color
WOMS 138	Women and Work
WOMS 139	Violence Against Women
WOMS 147	Women's Global Issues
WOMS 150	Introduction to Queer and Trans Studies

WOMS 166	Gender and Politics
The following courses may only be taken by Peace Corps Prep students who are in the Honors Program	
ANTH 2H	Introduction to Cultural Anthropology - Honors
ETHN 11H	Introduction to Ethnic Studies (Honors)
HONR 102	The Public Good Through the Visual and Performing Arts
HONR 103	Civic Engagement, Service Learning: Pursuing the Public Good
The following courses may only be taken by Peace Corps Prep students who are Criminal Justice Majors	
CRJ 105	Delinquency, Prevention and Control
CRJ 108	Domestic Crime and Violence
CRJ 170	Human Trafficking and Slavery
The following courses may only be taken by Peace Corps Prep students who are Environmental Studies Majors	
ENVS 110	Contemporary Environmental Issues
ENVS 112	International Environmental Problems
The following courses may only be taken by Peace Corps Prep students who are Health Science Majors	
HLSC 50	
HLSC 134	
The following courses may only be taken by Peace Corps Prep students who are Music Majors	
MUSC 60	Introuduction to String Project Pedagogy
MUSC 160	Advanced String Project Pedagogy
MUSC 162	Foundations of Music Education
The following courses may only be taken by Peace Corps Prep students who are Nursing Majors	
NURS 129	Mental Health Nursing
NURS 144	Community Health Nursing
NURS 174	Community Health Nursing: Concepts and Practice
NURS 174C	Community Health Nursing: Clinical Elective
The following courses may only be taken by Peace Corps Prep students who are Physical Education Majors	
BIO 30	Anatomy & Physiology - Brief Course
The following courses may only be taken by Peace Corps Prep students who are Psychology Majors	
PSYC 100	Cross-Cultural Psychology
PSYC 104	Learning Theories
PSYC 142	Community Psychology
The following courses may only be taken by Peace Corps Prep students who are Recreation, Parks, and Tourism Administration Majors	
RPTA 106	Introduction to Inclusive Recreation and Recreation Therapy
RPTA 116	Recreation Therapy Principles and Practices and the Recreation Therapy Process
RPTA 117	Recreation Therapy and Contemporary Aspects of Disability
RPTA 118	Recreation Therapy Facilitation Techniques
RPTA 196E	Introduction to Posttraumatic Growth
The following courses may only be taken by Peace Corps Prep students who are Social Work Majors	
SWRK 125A	Human Behavior and the Social Environment: Theory
SWRK 125B	Human Behavior and the Social Environment: The Life Course
SWRK 140A	Social Work Practice
SWRK 140B	Social Work Practice
SWRK 140C	Social Work Practice
SWRK 196	

Work Sector Field Experience (1-15 Units)

Complete at least 50 hours of field experience in the same work sector in which you took coursework. There are three options for satisfying the field experience requirement	1 - 15
a) Service learning course(s) where the service is related to your chosen work sector (must be pre-approved by the program advisor)	
b) (1-6) ID 195 Field Experience (must be related to your chosen work sector, pre-approved by the program advisor, and supervised by the faculty)	
c) An approved internship course in your chosen work sector listed below	
Options may be combined if necessary to achieve the required number of hours of field experience. The Student Handbook lists possible field experience sites.	
Approved Internship Courses	
Agriculture Work Sector	
The following courses may only be taken by Peace Corps Prep students who are Geography Majors	
GEOG 195A	Geography Internship A
GEOG 195B	Geography Internship B
GEOG 195C	Geography Internship C
The following courses may only be taken by Peace Corps Prep students who are in the Honors Program	
HONR 195	Community Fieldwork and Internship
Community Economic Development Work Sector	
The following courses may be taken by any Peace Corps Prep student	
ACCY 194	Cooperative Education Experience in Accountancy
AIS 194	Cooperative Education Experience in Accounting Information Systems Problems
GM 194	Cooperative Education Experience in Management
HROB 194	Cooperative Education Experiences in Human Resources Management
JOUR 197A	
JOUR 197B	
MIS 194	Cooperative Education Experience in Management Information Systems
PSYC 195C	Fieldwork in Industrial and Organizational Psychology
The following courses may only be taken by Peace Corps Prep students who are Business Majors	
ACCY 195	Internship in Accountancy
AIS 195	Internship in Accounting Information Systems
FIN 195	Internship In Finance
GM 195	Internship in Strategic Management
HROB 195	Internship in Human Resources Management

IBUS 195	Internship in International Business
MIS 195	Internship in Management Information Systems
MKTG 195	Internship in Marketing
The following courses may only be taken by Peace Corps Prep students who are in the Honors Program	
HONR 195	Community Fieldwork and Internship
Education Work Sector	
The following courses may be taken by any Peace Corps Prep student	
BIO 195T	Teaching Internship
CHDV 35F	Human Development and Elementary Field Experience
CHDV 144	Community Service Learning in Developmental and Educational Settings
CHDV 194	Cooperative Education Experience
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum
EDUC 127A & EDUC 127B	Field Experience in After School STEM Programs Field Experience in After School STEM Programs: Practicum
The following courses may only be taken by Peace Corps Prep students who are in the Honors Program	
HONR 195	Community Fieldwork and Internship
The following courses may only be taken by Peace Corps Prep students who are Physics Majors	
PHYS 195	Teaching Internship
PHYS 197	Laboratory Teaching Assistant
The following courses may only be taken by Peace Corps Prep students who are Psychology Majors	
PSYC 143	Practicum in Community Psychology
Environment Work Sector	
The following courses may be taken by any Peace Corps Prep student	
RPTA 191	Service Learning Option for Recreation, Parks and Tourism Administration Courses
The following courses may only be taken by Peace Corps Prep students who are Environmental Studies Majors	
ENVS 195	Environmental Studies Internship
ENVS 195M	Mini Internship
The following courses may only be taken by Peace Corps Prep students who are Geography Majors	
GEOG 195A	Geography Internship A
GEOG 195B	Geography Internship B
GEOG 195C	Geography Internship C
The following courses may only be taken by Peace Corps Prep students who are in the Honors Program	
HONR 195	Community Fieldwork and Internship
The following courses may only be taken by Peace Corps Prep students who are Recreation, Parks, and Tourism Administration Majors	
RPTA 195B	Partial Internship: Recreation and Park Management
RPTA 195C	Partial Internship: Recreation and Park Management
RPTA 195E	Internship: Recreation and Park Management
Health Work Sector	
The following courses may be taken by any Peace Corps Prep student	
BIO 195D	Dental Internship
BIO 195M	Medical Internship
BIO 195P	Pharmacy Internship
ID 195A	Introductory Field Experience in Peer Health Education
SPAN 194	Field Experience/Internship
The following courses may only be taken by Peace Corps Prep students who are Gerontology Majors	
GERO 130	Gerontology Practicum
GERO 131	Gerontology Capstone Practicum
The following courses may only be taken by Peace Corps Prep students who are in the Honors Program	
HONR 195	Community Fieldwork and Internship
The following courses may only be taken by Peace Corps Prep students who are Nursing Majors	
NURS 194	Work Study in Nursing
NURS 195	Field Study
The following courses may only be taken by Peace Corps Prep students who are Psychology Majors	
PSYC 143	Practicum in Community Psychology
The following courses may only be taken by Peace Corps Prep students who are Recreation, Parks, and Tourism Administration Majors	
RPTA 195D	Recreation Therapy Internship
Youth in Development Work Sector	
The following courses may be taken by any Peace Corps Prep student	
CHDV 144	Community Service Learning in Developmental and Educational Settings
EDUC 100A & EDUC 100B	Educating Students with Disabilities in Inclusive Settings Educating Students with Disabilities in Inclusive Settings Lab
EDUC 127A & EDUC 127B	Field Experience in After School STEM Programs Field Experience in After School STEM Programs: Practicum
ENGL 195A	Writing Center Theory and Practice: Internships
ID 195A	Introductory Field Experience in Peer Health Education
ID 195B	Intermediate Field Experience in Peer Health Education
ID 195C	Advanced Field Experience in Peer Health Education
POLS 198A	Odyssey Peer Advisers

RPTA 191	Service Learning Option for Recreation, Parks and Tourism Administration Courses
SOC 195	Internship and Fieldwork
WOMS 195A	Fieldwork in Women's Studies
The following courses may only be taken by Peace Corps Prep students who are in the Honors Program	
HONR 195	Community Fieldwork and Internship
The following courses may only be taken by Peace Corps Prep students who are Psychology Majors	
PSYC 143	Practicum in Community Psychology
The following courses may only be taken by Peace Corps Prep students who are Recreation, Parks, and Tourism Administration Majors	
RPTA 195D	Recreation Therapy Internship
RPTA 198	Co-Curricular Activities
The following courses may only be taken by Peace Corps Prep students who are Sociology Majors	
SOC 193B	Peer Mentoring in Sociology
The following courses may only be taken by Peace Corps Prep students who are Social Work Majors	
SWRK 195A	Field Instruction
SWRK 195B	Field Instruction
Intercultural Competence	**9**
The following courses may be taken by any Peace Corps Prep student	
ANTH 2	Introduction to Cultural Anthropology
ANTH 4	Language, Culture, and Critical Thinking
ANTH 101	Cultural Diversity
ANTH 102	The Nature of Culture
ANTH 108	Economic Anthropology
ANTH 131	Europe in the Ethnographic Imagination
ANTH 141	Culture Theory
ANTH 142	Political Anthropology
ANTH 143	Culture and Society in Mexico
ANTH 145	Peoples and Cultures of Latin America
ANTH 146	Ethnographic Analysis
ANTH 147	Peoples of Southeast Asia
ANTH 148	Anthropology of Chinese Societies
ANTH 149	Cultures of South Asia
ANTH 161	African Cultures and Societies
ANTH 162	Language and Culture
ANTH 164	Culture Change
ANTH 170	The Religious Landscape of the Sacramento Valley
ANTH 173	Anthropology of Contemporary Asia
ANTH 175	Anthropology of Globalization
ANTH 181	Anthropology of Human Rights
ANTH 183	Women Cross-Culturally
ANTH 186	Culture and Poverty
ART 1C	Global Modern and Contemporary Art
ART 2	History of Islamic Art
ART 103	Art of the Ancient Mediterranean
ART 109	Modern Art
ART 111	Latin American and Latino Art History
ART 112	Contemporary Art
ART 117A	Art of India and Southeast Asia
ART 117B	Art of China and Japan
ART 117C	Art of Korea
ART 148	Barrio Art for Ethnic Groups
ASIA 96	The Way of Chanoyu: An Interdisciplinary Approach to the Japanese Tea Gathering
ASIA 110	Anthropology of Contemporary Asia
ASIA 135	Contemporary Korean Culture
ASIA 136	Korean Development and Behavior
ASIA 140	Modern East Asian Cinema
ASIA 151	Genocide in Southeast Asia
CHDV 141	History of Childhood: International and Interdisciplinary Perspectives
CHDV 145	Controversial Issues in Childhood Development, Education, and Social Policy
CHIN 120	Chinese Civilization
CHIN 130	Introduction to Classical and Literary Chinese
CHIN 150	Survey of Chinese Literature
COMS 105	Communication in Small Groups
COMS 116	Intercultural Communication
COMS 119	Conflict Resolution Through Communication
COMS 143	Theories of Interpersonal Communication
COMS 155	Survey of World Cinema
COMS 173	Communication, Language and Culture
COMS 174	International Communication
COMS 176	Communication and Terrorism
COMS 188	Senior Seminar in Intercultural Communication
COMS 191	New Media and Society
CRJ 5	The Community and the Justice System
CRJ 115	Violence and Terrorism
CRJ 116	Restorative Justice and Conflict Resolution
CRJ 117	American Criminal Justice and Minority Groups
CRJ 196A	The Mentally Ill Individual in the Criminal Justice System
DEAF 60	Introduction to Deaf Studies
DEAF 162	Deaf Culture and Community
DNCE 5	
DNCE 131	Dance Cultures Of America
DNCE 132	African-Caribbean Dance
ECON 181	Economics of Racism
EDUC 18	Mathematical Practices Across Cultures
EDUC 100A	Educating Students with Disabilities in Inclusive Settings
EDUC 121	Multicultural Children's Literature
EDUC 156	Power, Privilege and Self Identity in Counseling
EDUC 160	Urban Education
EDUC 165	Sex Role Stereotyping in American Education
EDUC 173	Hmong History and Culture
ENGL 65	Introduction to World Literatures in English
ENGL 165F	Caribbean Literature

ENGL 180H	American Identities: In the Intersection of Race, Gender, and Ethnicity
ENGL 180J	Jewish American Literature
ENGL 180L	Chicano Literature
ENGL 180M	Asian American Literature
ENGL 180Z	Topics in Multi-Ethnic Literatures
ENGL 185B	Twentieth Century Fiction by Women
ENGL 190Q	LGBTQ Literature
ETHN 10	Africa: Myths and Realities
ETHN 11	Introduction to Ethnic Studies
ETHN 11H	Introduction to Ethnic Studies (Honors)
ETHN 14	Introduction to Asian American Studies
ETHN 30	Introduction to Chicano/Latino Studies
ETHN 50	Native American Religion and Philosophy
ETHN 53	Introduction to Native American Studies
ETHN 70	Introduction to Pan African Studies
ETHN 71	Leadership in the African Diaspora
ETHN 72	Black Images in Popular Culture
ETHN 100	Ethnic America
ETHN 110	The Asian American Experience
ETHN 111	Southeast Asians in the US
ETHN 112	Contemporary Asian American Issues
ETHN 113	Asian American Communities
ETHN 114	Asian Americans and Globalization
ETHN 115	Biracial and Multiracial Identity in the US
ETHN 116	Asian American Politics and Public Policy
ETHN 117	Black Political Thought
ETHN 118	Asian American Women
ETHN 119	The Filipino American Experience
ETHN 121	Hmong American Experience
ETHN 122	Sikh Americans and Globalization
ETHN 130	Chicano/Mexican-American Experience
ETHN 131	La Raza Studies
ETHN 132	La Mujer Chicana
ETHN 133	Crosscultural Aging in America
ETHN 136	US Mexican Border Relations
ETHN 137	Race and Ethnicity in Latin America and Caribbean
ETHN 140	Native American Experience
ETHN 141	Politics of the African Diaspora
ETHN 142	Native American Tribal Governments
ETHN 143	American Indians, Film and Popular Culture
ETHN 145	Native Voice, Memory, and Biography
ETHN 150	Native American Oral Tradition and Storytelling
ETHN 151	Native American Women
ETHN 155	Genocide and Holocaust Studies
ETHN 156	Indigenous People
ETHN 166	American Indigenous Families: Issues and Perspectives
ETHN 167	Asian American Families: Issues and Perspectives
ETHN 170	Pan African Studies
ETHN 171	African Religions and Philosophies
ETHN 172	Black Women In America
ETHN 173	The Black Family in the United States
ETHN 179	Black Music and Black Consciousness
FACS 50	
FACS 150	
FILM 155	Contemporary World Cinema
FREN 107	Business French
FREN 110	Survey of French Literature
FREN 111	Topics in Francophone Literature
FREN 120	French Civilization
FREN 125	Quebec and French North America
FREN 130	Culture Wars: From Knighthood to Revolution
GERM 140	Heroes, Dragons and Quests
GERM 142	German Folk Literature, Legend, and Lore
GERM 150	German Civilization: Beginning to 16th Century
GERM 151	German Civilization: 17th Century to Present
GERO 100	Aging Issues in Contemporary America
GERO 121	Strategies for Optimal Aging
GERO 122	Managing Disorders in Elders
HIST 15H	Major Problems in U.S. History
HIST 17A	United States History, 1607-1877
HIST 17B	United States History, 1877-Present
HIST 50	World Civilizations, Beginnings-1600
HIST 51	World History from 1500 to the Present.
HIST 122A	History of Women in Western Civilization, Prehistory-Middle Ages
HIST 122B	History of Women in Western Civilization, Renaissance-Present
HIST 133	Twentieth-Century World History
HIST 134	The Rise and Fall of European Colonial Empires
HIST 135B	Revolutionary and Modern Mexico
HIST 138A	Colonial Latin America
HIST 138B	Modern and Contemporary Latin America
HIST 140	Modern East Asian Cinema
HIST 141	History of Africa Since 1800
HIST 142	History of Women in Africa
HIST 143A	Middle Eastern History to 1800
HIST 143B	The Modern Middle East
HIST 145	South Asian History & Civilization
HIST 148A	China: Antiquity to 1600 AD
HIST 148B	China, 1600 to Present
HIST 149	The Making of Modern Southeast Asia
HIST 157	History of International Relations in the 20th Century
HIST 171B	American Indian History since 1840
HIST 173	The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present
HIST 177	The African-American Experience, 1603-Present
HIST 178	Mexican-American History
HROB 152	Management Skills Seminar
HRS 71	Arts and Ideas of Asia: Medieval to Modern
HRS 140	
HRS 144	Introduction To Islam

HRS 145	Introduction to Islamic Cultures
HRS 146	Islam in America
HRS 147	History of Buddhism
HRS 152	Great Mystics of the World
HRS 170	The Religious Landscape of the Sacramento Valley
HRS 171	Introduction to the East Asian World
HRS 172	The Classical Culture of China
HRS 173	Chinese Philosophy and Religion
HRS 174	Modern Japanese Literature and Culture
HRS 175	Zen Buddhism and Daoism
HRS 176	The Confucian Tradition
HRS 178	Religions of India
HRS 179A	The Hindu Year: Fall
HRS 179B	The Hindu Year: Spring
HRS 183	World Religions and Cultures in Cinema
ITAL 104A	Introduction to Italian Cinema I
ITAL 104B	Introduction to Italian Cinema II
ITAL 110	Introduction to Italian Literature I
ITAL 111	Introduction to Italian Literature II
JAPN 116A	Language and Culture of the Japanese and the Japanese in America
JAPN 116B	Language and Culture of the Japanese and the Japanese in America
JAPN 120	Japanese Civilization
LBST 110	California Studies
MUSC 9	Music In World Cultures
MUSC 119A	World Music: Asia
MUSC 119B	World Music: Africa
MUSC 119C	World Music: Latin America
PHIL 145A	Chinese Philosophy
PHIL 145B	Philosophies Of India
PHOT 20	The Photographic Self
POLS 136	International Political Economy
POLS 139S	Topics in Human Security
POLS 141	Politics of the African Diaspora
POLS 142	Government and Politics in Africa
POLS 143	Causes of War, Causes of Peace
POLS 145	Asian Politics
POLS 147	Latin American Government and Politics
POLS 148	Governments and Politics in the Middle East
PSYC 135	Psychology of Multicultural Groups
PSYC 157	Psychology of Women
PSYC 160	Homosexuality
RPTA 33	Race, Class Gender and Leisure
RPTA 128	Recreation Services for Diverse, Underserved and Underrepresented Populations
SOC 118	Chicano Community
SOC 120	Ethnic and Race Relations
SOC 123	Black Studies in Sociology
SOC 125	Social Inequalities
SOC 126	Sociology of Gender
SOC 127	Men, Masculinity and Society
SOC 128	Sociology Of Sexuality
SOC 133	Sport in a Global Perspective
SOC 135	Sociology of Popular Culture
SOC 160	Asian Societies
SOC 162	Middle Eastern Societies and Culture
SOC 163	Conflict, Oil and Development in the Middle East
SOC 164	Sociology of Globalization
SPAN 100	Introduction to the Study of Hispanic Literature
SPAN 110	Survey of Spanish Literature to 1800
SPAN 111	Survey of Spanish Literature from 1800 to the Present
SPAN 113	Latin American Literature, Beginnings to Modernism
SPAN 114	Latin American Literature, Modernism to Present
SPAN 115	Magical Realism
SPAN 123	Topics in Spanish Literature
SPAN 130	Contemporary Mexican Literature
SPAN 134	The Short Story in Latin America
SPAN 142	Advanced Spanish Conversation
SPAN 151	Civilization and Culture of Hispanic America
SPAN 152	Civilization and Culture of Spain
SPAN 153	Civilization and Culture of Mexico
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class
SWRK 132	Social Work and Spirituality
SWRK 136	Poverty and Homelessness in America
THEA 115A	Multicultural Puppetry
THEA 140	Black Drama in the African Diaspora
THEA 144	Women and Theatre: Staging Diversity
THEA 155	Contemporary World Cinema
THEA 170	African American Theatre and Culture
THEA 173	Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present
THEA 174	Multicultural Perspectives in American Theatre
THEA 175	Multicultural Perspectives in American Film
WLL 15	World Literatures in Film
WOMS 50	Introduction to Gender & Sexuality
WOMS 118	Asian American Women
WOMS 121	Women Of The Middle East
WOMS 136	Gender, Race, and Class
WOMS 137	Women Of Color
WOMS 138	Women and Work
WOMS 144	Women and Theatre: Staging Diversity
WOMS 147	Women's Global Issues
WOMS 50	Introduction to Gender & Sexuality

The following courses may only be taken by Peace Corps Prep students who are in the Honors Program

ANTH 2H	Introduction to Cultural Anthropology - Honors
HIST 50H	World History I: to 1500
HIST 51H	World History from 1500 to the Present
HONR 2	Great Books and World Civilization I

HONR 3	Great Books and World Civilization II
HONR 120	Honors One World Seminar
The following courses may only be taken by Peace Corps Prep students who are Child Development Majors	
CHDV 135	Crosscultural Child Development
The following courses may only be taken by Peace Corps Prep students who are Criminal Justice Majors	
CRJ 163	Leadership in Criminal Justice and Public Safety
The following courses may only be taken by Peace Corps Prep students who are Family and Consumer Sciences Majors	
FACS 114	
The following courses may only be taken by Peace Corps Prep students who are Humanities and Religious Studies Majors	
HRS 190C	Seminar in HRS: Many Realities of Consciousnes
HRS 190D	Seminar in HRS: Death and Afterlife
The following courses may only be taken by Peace Corps Prep students who are Kinesiology Majors	
KINS 137	Sociology Of Sport
The following courses may only be taken by Peace Corps Prep students who are Psychology Majors	
PSYC 100	Cross-Cultural Psychology
PSYC 142	Community Psychology
PSYC 165	Evolutionary Psychology
The following courses may only be taken by Peace Corps Prep students who are Recreation, Parks, and Tourism Administration Majors	
RPTA 106	Introduction to Inclusive Recreation and Recreation Therapy
RPTA 117	Recreation Therapy and Contemporary Aspects of Disability
RPTA 182	Travel And Tourism
RPTA 196E	Introduction to Posttraumatic Growth
Professional and Leadership Development Skills	
Complete both of the following	
College 2 Career Readiness Program [1]	
Green Certificate of the Leadership Initiative [2]	
Total Units	19-33

[1] College 2 Career Readiness Program: https://www.csus.edu/student-life/career-center/college-to-career.html

[2] Green Certificate of the Leadership Initiative: http://www.csus.edu/soal/leadership%20programs/leadership%20initiative%20.html

Political Science

College of Social Sciences and Interdisciplinary Studies

Program Description

Political Science is devoted to study of the theory and practice of government and politics. The Political Science Department at Sacramento State offers courses in several fields of study, including: Political Theory; American Politics; Public Law; International Relations; Comparative Politics; and Public Policy. Over 70 courses cover all the major aspects of political science. Lower division courses satisfy General Education requirements and help to prepare students for advanced work.

The Political Science major complements a student's liberal arts education with an emphasis on understanding the theoretical and practical aspects of government and politics. The department offers a BA in Political Science, a BA in International Relations, a BA in Political Science-Journalism, and the minor in Political Science. Our majors are structured to provide students with a background in the basic fields of political science, as well as to permit them a range of choice in completing the program. The Political Science Department offers several courses integral to interdisciplinary programs such as California Studies, Environmental Studies, Ethnic Studies, Peace and Conflict Resolution Studies, and Women's Studies.

Students should select a faculty advisor who shares the student's academic interests. For students who wish to pursue graduate work in Political Science, a Master of Arts degree is offered.

Degree Programs

BA in International Relations

BA in Political Science (p. 1047)

BA in Political Science and Journalism (p. 1048)

Minor in Political Science

MA in Political Science (California and its Political Environment) (p. 1050)

MA in Political Science (International Relations/Comparative Government) (p. 1051)

MA in Political Science (Political Theory) (p. 1053)

Capital Fellows Certificate in Applied Policy and Government (p. 1049)

Special Features

- Located in the state capital, the Sacramento State program offers unusual opportunities for the study of government and politics and especially for internships. Students have served internships with state legislators, legislative committee staffs, special interest and lobbying groups, and administrative agencies. Placement is also possible in local government executive agencies and with county supervisors, city council members, and selected political campaigns. Students applying for internships should have had (or be taking in the same semester) POLS 180, California State and Local Government, and must have passed the Writing Placement for Juniors Examination.
- Sacramento State students may apply for the Sacramento Semester Program, which brings students from all California State University campuses to Sacramento for one semester to take advantage of the unique learning experience at the State Capitol. The heart of this program is six units of internship with the legislature or other state offices. An accompanying 6 unit seminar course in state government and politics allows students to integrate their practical internship experience with academic work.
- Students who work in the day will be interested to know that class scheduling permits completion of the general Government major in the late afternoon and evening hours.

Career Possibilities

Government majors enter careers in government at the local, state, or federal level, political campaigns, non-profit and non-governmental organizations, lobbying, urban planning, or policy-related fields of all kinds. Others go into teaching at all levels, journalism, business, and Government, of course, is a popular major for students interested in pursuing legal careers. Examples of possible careers include: policy analyst, specialist in legislative and governmental relations, budget analyst, campaign manager, Foreign Service officer, attorney, paralegal, high school teacher.

Contact Information

James Cox, Department Chair
Julie Cahill, Administrative Support Coordinator
Tahoe Hall 3104
(916) 278-6202
www.csus.edu/govt/ (http://www.csus.edu/govt/)

Faculty

ANDERSEN-RODGERS, DAVID R.

BROWN, MARK B.

CANNON, PATRICK G.

COX, JAMES H.

DAVIES, PETER

DILLON, WILLIAM A.

DiSARRO, BRIAN S.

GOSSETT, CHARLES W.

HERTZOFF, ANDREW S.

HUSSEY, WESLEY A.

LAPP, NANCY D.

LEE, YOUNG-IM

MARTIN, DANIELLE J.

NALDER, KIMBERLY L.

ODEN, ROBERT STANLEY

RAE, JAMES DeSHAW

RAZAVI, SAHAR

SAMPANIS, MARIA

SNYDER, BRUCE

TOWLER, CHRIS

TUTSCHKA, MONICKA B.

VICTOR, KRISTINA

POLS 1. Essentials Of Government. 3 Units
General Education Area/Graduation Requirement: U.S. Constitution + California State & Local Govt, GE AREA D
Term Typically Offered: Fall, Spring, Summer

Examines the U.S. Constitution, the U.S. system of governments and the ideas and values on which they are based. Fulfills state code requirements for U.S. Constitution and California State and Local Government. Students who believe they have a good fundamental knowledge of the institutions of American Government are encouraged to consider a designated upper division course to fulfill the state requirement.

POLS 1H. Honors Government. 3 Units
General Education Area/Graduation Requirement: U.S. Constitution + California State & Local Govt, GE AREA D
Term Typically Offered: Fall, Spring

Explores some of the most influential works of politics and political writing in American history, and challenges contemporary analysis of political institutions and processes. Examines the structure of the Constitution, issues of federalism, the growth of civil rights, and the processes of government, with a comparative element. Explores the unique characteristics of California state politics.

POLS 10. The Meaning of Government: An Introduction to Political Ideas. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Examination of the ideas of various authors about governing and being governed. Topics include: the scope and limits of freedom, the causes and characteristics of the state, the content of politics, the nature of authority, the problems of power and the duty to obey.

POLS 35. World Politics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Basic introduction to global politics focusing on a broad range of issues and problems relating to conflict and cooperation among nations, and on similarities and differences among nations' governmental institutions, structures and processes.

POLS 96. California Constitution & Government. 1 Unit
Prerequisite(s): Instructor approval required.
Examines the California state constitution, the structure and role played by both the state government and local governments in California. Students who pass the course will petition the Dean of Undergraduate Studies for credit in meeting the California Government portion of the American Institution requirement.
Note: Experimental course.

Credit/No Credit

POLS 100. Introduction to Research Methods in Political Science. 3 Units
Term Typically Offered: Fall, Spring

Examines the foundations of scientific research methodology in political and social science. Designed to introduce students to the basic conceptual, observational and analytical methods of empirical research in political science and related social sciences.

POLS 110. Political Thought I. 3 Units
Term Typically Offered: Fall, Spring

History of political theory, covering some important thinkers and topics during the Ancient, Medieval and Early Modern periods.

POLS 111. Political Thought II. 3 Units
Term Typically Offered: Fall, Spring

History of political theory, covering some important thinkers and topics from the Early Modern period to the early 20th century.

POLS 112. Current Political Thought. 3 Units
Term Typically Offered: Fall, Spring

Current issues in political thought, with emphasis upon developments in the political philosophies of democracy, fascism, communism, conservatism, liberalism. Ideas are analyzed with reference to assumptions on which they are based and their relevance for political institutions and problems.

POLS 113. American Political Thought. 3 Units
General Education Area/Graduation Requirement: GE AREA D, U.S. Constitution + California State & Local Govt
Term Typically Offered: Fall, Spring

Assessment of ideas that are central to the development of an American political tradition, as those ideas influence government at the federal, state and local levels. Meets the state requirements in U.S. Constitution and California State and Local Government.

POLS 115. Democratic Theory. 3 Units
Term Typically Offered: Spring only

Introduction to basic questions of democracy. Draws on classical and contemporary writings to explore what democracy means and various forms of democratic government, politics, and culture: direct, representative, liberal, republican, pluralist, elitist. Specific topics may include: definitions of democracy, justifications for democracy, arguments for increasing or limiting democratic participation, tasks of political representatives, democratization of social institutions, and the relationship between globalization and democracy.

POLS 117. Black Political Thought. 3 Units
Term Typically Offered: Spring only

Systematically and analytically introduces the predominant political trends and concepts presently entertained and harbored in the Black Community. A necessary adjunct to this dialogue is the racist theme in American society since on balance this is the matrix out of which the political alternatives and concepts grew.
Cross Listed: ETHN 117; only one may be counted for credit.

POLS 118. Just War, Natural Right, and the Law of Nations. 3 Units
Term Typically Offered: Fall only

Examines fundamental conceptual questions about morality, law, and international relations through great works of political theory. Topics will cover natural right, sovereignty, just war, imperialism, national security, and international obligations. Authors read will include Thucydides, Aristotle, Aquinas, Machiavelli, Grotius, Montesquieu, Kant, Hegel, Marx, Mill and Nietzsche.

POLS 119A. Socialism Marxism-Communism. 3 Units
Term Typically Offered: Fall only

Analyzes the basic writings and ideas of Socialist and Marxist writers and the implications of their ideas.

POLS 119B. Greek Political Thought. 3 Units
Term Typically Offered: Fall only

Study of the political thought of Greece from Homer to Demosthenes, including Plato, Thucydides, Sophocles, and other Greek thinkers. Topics include the birth of democracy, the sciences and philosophy, Athens' rise to prominence, its defense of freedom against Persia, and its own development of an empire. Examination of Greek thoughts about justice, authority, freedom, equality, and culture. The events that shaped ideas and ideas that shaped events, as well as our understanding of the modern world, will be covered.

POLS 119D. Shaping of the Modern World. 3 Units
Term Typically Offered: Spring only

This course examines major problems that have shaped the modern world, the historical and intellectual roots of the modern world, and debates over the meaning of modernity. Considers how both advocates and critics of modernity have understood the relation of history, philosophy, politics, nature, religion, economics, and other key concepts. Specific topics may include: the development of modern science, technological progress, democratic institutions, capitalism, colonialism, secularization, religious tolerance, and individual freedom.

POLS 120A. Constitutional Law. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring

Basic junior level course in Public Law. A study of leading decisions of the U.S. Supreme Court and other materials pertaining to the power of Congress, the President and the Judiciary; relations between states and nation; and civil rights. Considers such topics as the separation of powers, judicial review, Congress, and the President.

POLS 120B. Constitutional Rights and Liberties. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring

Basic junior level course in Public Law. A study of rights and immunities under the U.S. Constitution: examines leading decisions of the U.S. Supreme Court and other materials pertaining to freedom of expression, freedom of association, equality and due process of law.

POLS 121. American Legal History. 3 Units
Term Typically Offered: Fall only

Examines the interaction of law, society, and politics in America from the colonial period to the present with special emphasis on law as an arena of social and cultural conflict. Major topics include the development of the common law in early America; the law of slavery and its impact on constitutional development; the role of the law in defining controversies over race and gender; legal thought and education; and the role of the Supreme Court in 20th Century America.
Cross Listed: HIST 180; only one may be counted for credit.

POLS 122. The Law and Bureaucracy. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Not offered

Examines constitutional and statutory limits of bureaucratic power in the American political system.

POLS 123. Elements Of Law. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only

Current legal thought in the U.S. with special emphasis on the relationship of law to history, economics, anthropology, and government; the nature of law; the role of legislators, lawyers, and judges in making the legal system.

POLS 126. Politics and Lawyers. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring

Examines and analyzes the pervasiveness of lawyers and their activities in political realities; what do lawyers do; politics of prosecution and defense; politics within the profession; professional mobility; politics of the judiciary; lawyers in government.

POLS 127. Elements of International Law. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Spring only

While tracing the evolution of historical antecedents, centers upon modern literature in the field. The scope is broad and the problems vary, but among the areas to be studied are: 1) Is international law really law?; 2) historical foundations; 3) international legal institutions and structures; 4) supra-legal international orders, structures, and institutions and their meaning to international law; 5) world order and world law; and 6) an international 'Bill of Rights.

POLS 128. Environment and the Law. 3 Units
Term Typically Offered: Spring only

Introduction to environmental law, including: the evolution of environmental legislation, environmental issues in the court system, environmental regulation and administrative law and environmental torts. Emphasis is on understanding legal process and the special challenges environmental problems present to the legal system.
Cross Listed: ENVS 128; only one may be counted for credit.

POLS 130. International Politics. 3 Units
Term Typically Offered: Fall, Spring

Basic junior-level course in International Relations. Current international tensions; the motivating forces influencing world politics; and the role of diplomacy and international organizations in resolving conflicts.

POLS 131. International Organization. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Spring only

Examines human efforts to create supranational organizations to promote world peace and prosperity. The focus will be on social, political, and economic activities and problems which have developed and proliferated since the end of the second World War.

POLS 132. War and Peace in the Nuclear Age. 3 Units
Term Typically Offered: Not offered

Covers the discovery of atomic fission, the development of the atomic bomb and the evolution of U.S. nuclear weapons and strategy from 1945 to the present. It examines political, strategic, bureaucratic, economic and cultural forces that have shaped U.S. nuclear policy since Hiroshima. The problem of international security in the Nuclear Age is also addressed.

POLS 133. American Defense and National Security. 3 Units
Term Typically Offered: Spring only

Analyzes U.S. security policy, looking at the structure and ideologies of the security system, the requirements of national defense, and the roles played by conventional and nuclear weapons in protecting and promoting American security.

POLS 134. War, Peace and the Mass Media. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring, Summer

Concerned with the relationship of mass media to war and the possibilities for peace, with emphasis on recent concepts of political communication.
Cross Listed: JOUR 134; only one may be counted for credit.

POLS 135. American Foreign Policy. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only

Institutions, practices and development of American foreign policy; the interaction of domestic and foreign factors on the formulating of American foreign policy since World War II.

POLS 136. International Political Economy. 3 Units
Term Typically Offered: Fall, Spring

Analyzes the interaction between politics and economics at the international level. Covers basic theoretical approaches; historical evolution of international economy; creation and role of international financial institutions; development issues; globalization and integration.

POLS 137. Nationalism. 3 Units
Prerequisite(s): GOVT 35 or GOVT 130 or instructor permission.
Term Typically Offered: Fall, Spring

Focuses on major theories of nationalism. Examines the literature dealing with theories explaining the emergence of nationalism and its political consequences; develops a comprehensive set of empirical indicators of nationalism, together with several working hypotheses regarding political manifestations of nationalism; provides the analytic frame for understanding nationalism; and applies theories to explain political behaviors of nations.

POLS 138. UN Simulation. 3 Units
Prerequisite(s): Junior status or above, a minimum 3.0 GPA in the major, GOVT 130 and/or GOVT 140, or instructor permission.
Term Typically Offered: Fall, Spring

Seminar experience for upper level Government and International Relations concentration majors. Students will prepare for and participate in a national intercollegiate model UN conference.
Note: Course repeatable with instructor permission.

POLS 139A. Globalization. 3 Units
Prerequisite(s): An upper division course in the field and/or instructor permission.
Term Typically Offered: Fall only – odd years

Explores the nature of, and issues in, globalization. It does so in five parts. Part I examines alternative conceptions of globalization. Part II identifies and examines the primary forms of economic globalization. Part III considers globalization's effects on the territorial state, the welfare state, organized violence, culture, immigration, gender, and the environment. Part IV investigates the politics of the anti-globalization backlash. Part V concludes with an assessment of the shape and future of contemporary globalization.

POLS 139B. International Politics and International Development. 3 Units
Prerequisite(s): GOVT 130 or Instructor Permission
Term Typically Offered: Fall only – even years

This course examines the origins and evolution of the theory and practice of international development; considers the meaning of international development; examines theoretical models and approaches to understanding the conditions, effects, and processes of international development. It explores the history and current state of theories and approaches to international development and addresses contemporary and essential issues in the field.

POLS 139G. Intelligence and Espionage. 3 Units
Term Typically Offered: Fall only

Involves students in the study of the field of intelligence, as it relates to national security, foreign policy, law and ethics. Comparative analysis of the practice and experience of the U.S., the former Soviet Union and other nations will be emphasized.

POLS 139S. Topics in Human Security. 3 Units
Term Typically Offered: Spring only

This course introduces students to the broad field of the study of human security and many essential current topics in that field, such as access to food and water, security against personal violence, and economic security. Students will examine how international forces and structural elements of society can endanger or ensure the security of groups and individuals within the borders of nation-states. Students will learn to research, analyze, and address the connections between international forces and their affects upon human beings around the world.

POLS 140. Comparative Politics. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring

Survey of the field of comparative government and politics including a review of historic uses of comparison in political science research but with emphasis on the methods of study and analytical means of research currently employed. The subject matter of study: national political systems of all types and the component parts of political systems will be an integral feature.

POLS 141. Politics of the African Diaspora. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall only

Examines the social, political, cultural, and economic factors which have been important to the African diaspora. Examines how African people have responded to those factors, both in terms of formal, political thought, and in terms of political movements and political institutions. Examines thought and practice, comparability to Africa, U.S., Caribbean, Central and South America.
Cross Listed: ETHN 141; only one may be counted for credit.

POLS 142. Government and Politics in Africa. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only – even years

Deals with the politics and governments of Africa. The most important themes concern precolonial African systems, colonialism, nationalism and nation-building. Previous exposure to African Studies is desired but not required.

POLS 143. Causes of War, Causes of Peace. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Explores the entire conflict process associated with war from a variety of theoretical and methodological angles, including rationalist and behavioral models. Examines the concept of war and why wars begin. Looks at how violent international conflict is resolved. Investigates the role of the international community in the management of violent conflict, how peace processes are implemented, what leads to successful negotiations, and how war crimes and post-conflict reconciliation issues are resolved.

POLS 144. European Politics. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Study of national and regional politics, governmental institutions and public problems in Europe since 1945. In different semesters there may be investigation of several, but varying, national systems, of cross-national political behavior, or of regional integration processes. May be taken more than once if there are different topics and instructor permission.

POLS 145. Asian Politics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Survey of governmental institutions and political processes in East and Southeast Asia. Focuses on the region's politics, dynamic economic growth, complex security context, resurgence of nationalism, and attempts to build multilateral institutions.

POLS 146. US-China Relations. 3 Units
Term Typically Offered: Fall, Spring, Summer

This course explores the historical foundation of US-China relations, tracing from 19th century encounters through world wars, ideological confrontation, rapprochement, and into the contemporary era. Focus on international and political dimension of diplomatic and strategic interests, also explores cultural and social connections through trade, investment, migration, and tourism.
Cross-listed: ASIA 146.

POLS 147. Latin American Government and Politics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Two-part examination of government, politics, political change and political groups in Latin America. Part one examines the development of government, politics, political change and political groups. Part two presents national case studies.

POLS 148. Governments and Politics in the Middle East. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Survey of the governmental institutions and the political processes in the region, with emphasis on the problems of social change. Focuses on the colonial situation, the growth of nationalism, the revolution of rising expectations, Islamic political theory and its contemporary manifestations, the role of the military, and the current regional conflicts.

POLS 149A. Original Research in Comparative Politics. 3 Units
Prerequisite(s): An upper division course in the field and/or instructor permission.
Term Typically Offered: Fall only

Students will engage in a cross-national research agenda. Students will conduct original research in comparative politics, which requires an appreciation for distinct learning cultures in different countries. Countries acceptable for comparison will vary with instructor.

POLS 149R. Comparative Revolutions. 3 Units
Term Typically Offered: Fall, Spring

This course is primarily concerned with the causes, trajectories, and consequences of major revolutions and revolutionary movements of the 20th and 21st centuries. The course addresses the questions: what defines a revolution? What are the causes of revolutionary social change? Why do some revolutions fail to achieve their intended objectives and others succeed? How can political scientists investigate the possibility of objectively assessing revolutionary success or failure?

POLS 150. American Governments. 3 Units
General Education Area/Graduation Requirement: GE AREA D, U.S. Constitution + California State & Local Govt
Term Typically Offered: Fall, Spring, Summer

Federal system of government; the U.S. Constitution; legislative, executive, and judicial processes; political parties, interest groups, and the relationships and obligations of citizens to their government(s). Fulfills the California state graduation and credential requirements for U.S. Constitution and California State and Local Government. May be substituted for GOVT 1, but may not be used as an elective toward the major.

POLS 151. Bureaucracy. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Not offered

Evaluation of the role and background of a professionalized bureaucracy with references to American national, state and local administrative systems as well as non-American administrative systems.

POLS 152. Political Psychology. 3 Units
Term Typically Offered: Fall, Spring

Examines the ways in which political behavior is shaped by individual beliefs, personalities, cognitive patters, biases, and other psychological mechanisms. Students will engage with a wide range of research on topics such as cognitive styles, personality, obedience, psychological roots of terrorism, the psychology of ideology, and the role of emotion in politics.
Cross Listed: PSYC 153

POLS 153. The American Presidency. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Spring only

Examines the development of the Presidency as an institution; sources and uses of presidential power in contemporary politics; the President's relationship with Congress and the bureaucracy; and current issues relating to the office.

POLS 154. Political Parties in America. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring

Examination and analysis of American political parties. An exploration of the nature and functions of political parties including party organization, electorate, and government. Topics include the various historical party systems, the two-party system, elections, and campaign financing. Includes discussion of the presidential nominating process.

POLS 155. The Legislative Process. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Spring only

Examination and analysis of the institutions, the people and the behavior that make up the legislative process. Considers the nature of representation and the role and impact of such factors as committee structure, political parties, interest groups, and others on public policy. Focus is on both the U.S. Congress and the California State Legislature.

POLS 156. Interest Groups. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only – odd years

Examination and analysis of interest groups in American political systems. The nature, role, formation, organization and activities of interest groups; how interest groups influence the public, political campaigns, public policy-making, and policy implementation. Representative interest groups will be studied.

POLS 157. Politics, Opinion, and Participation. 3 Units
Term Typically Offered: Fall, Spring

How we learn and change our political beliefs, including the influence of media, religion and social standing. The various forms of political participation; who participates and who doesn't and why. The meaning and conduct of elections in the modern era.

POLS 158. Mass Media and American Politics. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only

Focuses on the role the mass media plays in the political life of our democracy. Five primary topics are covered: the proper media role in a democracy; the relationship between the media, public opinion and agenda setting; the effects of media coverage on campaigns, elections, and voting; how elected officials influence and 'spin' coverage; and the impact of media on policy-making. Students will develop critical analysis skills and emerge as more savvy media consumers and citizens.

POLS 159A. Campaigns and Elections. 3 Units
Term Typically Offered: Fall only – even years

Exploration of American campaigns and elections. Topics include the electoral process, voting behavior, the role of political parties, the media, interest groups, and candidate and campaign strategies. Focus will be on contemporary/current campaigns and elections.

POLS 159B. American Politics Seminar: Problems in Democratic Institutions. 3 Units
Term Typically Offered: Not offered

Examines the concept of representation and how it functions in the U.S. Congress and in state legislatures. In the first section different meanings of representation are discussed. In the second section interactions between legislators and their constituents are explored. Finally, the tradeoffs to different designs of representative institutions are studied.

POLS 159D. Politics, Immigration, and Citizenship. 3 Units
Prerequisite(s): GOVT 1
Term Typically Offered: Fall, Spring

This course will provide an overview of the political discussions and decisions related to immigration and citizenship in the US. More specifically, this course examines: (1) key political and policy actors in the development of immigrant admissions and immigrant integration policies, (2) the nature and consequences of immigration at the national, state, and local levels, (3) evolving racial and ethnic relations in the US, (4) public opinion and immigration-immigrants participation in American political life, and (5) contemporary issues.

POLS 162. American Film and Culture in the Nuclear Age. 3 Units
Term Typically Offered: Fall only

Explores the impact of the revolutionary change represented by the atomic bomb on forms of cultural response and expression in America. Attempts to analyze the bomb-culture relationship by reviewing important films, television programs, novels, essays, music and poetry that revealed, and helped shape, the hopes and anxieties that have characterized life in the nuclear age.

POLS 163. Introduction to Black Politics in the U.S.. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring, Summer

Examines historically and currently the political life of black people in the U.S. Emphasis on understanding underlying conditions.

POLS 164. History of American Capitalism. 3 Units
Term Typically Offered: Spring only

Traces the development of the relationship between business and government in the U.S., especially in relation to state and federal regulations of those industries. Examines how individual entrepreneurs and regulators have contributed to the development of the modern American political economy.
Cross Listed: HIST 164; only one may be counted for credit.

POLS 165. Politics of the Underrepresented. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150; and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer

Examines the phenomenon of political underrepresentation in the U.S.A. It will identify significant affected groupings, examine the conditions which have resulted in such underrepresentation, evaluate the effects of underrepresentation on the lives of affected groups, and consider relevant political strategies. Emphasis on particular groups may vary with instructor.

POLS 166. Gender and Politics. 3 Units
Term Typically Offered: Spring only

This course examines the influence of socially constructed meanings of femininity and masculinity on the political participation of women, candidate selection, election campaigns, and electoral outcomes in executive and legislative offices in the U.S. and worldwide. Students will develop a rich understanding of the relationship between gender and women's political representation and analyze and discuss institutional, structural, cultural, and historical conditions associated with women's voting behavior, political advancement, leadership styles, and impacts of political representation on women.
Cross Listed: WOMS 166; only one may be counted for credit.

POLS 167. American Political Development. 3 Units
Term Typically Offered: Fall only

Focuses on key transformative sequences in American political history and their consequences. Topics include the nature of American political culture and its role in shaping U.S. political institutions and public policy; the process of government growth or 'state building'; the role of political institutions in channeling societal demands and influencing public policy; the nature of American party systems or 'regimes' and the electoral 'realignments' that link them; and connections between long-term economic and political cycles.

POLS 168. Gay and Lesbian Politics. 3 Units
Prerequisite(s): POLS 1 or POLS 150
Term Typically Offered: Spring only

Provides a broad overview of the politics of gay rights in the United States. Particular emphasis is placed on gay rights at the state level (where the vast majority of policy is made) and major legal strategies and court rulings affecting the gay rights movement, since judiciaries have been the main venue for advancing gay rights arguments.

POLS 169A. Science, Technology, and Politics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Social and political dimensions of science and technology. Examines how science and technology both shape politics and are shaped by politics. Considers the role of scientific advisors in government and society; dilemmas of expert authority and bias; relations between experts and non-experts; science and technology in popular culture; science and technology policy; implications of emerging technologies such as genetic engineering and the Internet for civil rights, moral values, and democracy.

POLS 169D. Latino/a Politics. 3 Units
Prerequisite(s): GOVT 1
Term Typically Offered: Fall, Spring

Systematically and analytically examines the predominant political trends, concepts, and policies presently impacting Latino/a communities. Includes such topics as an examination of Latino/a identity, immigration and citizenship, political organization and participation, and relationships with other minority groups in the United States.

POLS 170. Public Policy Development. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150 and GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Examines the policy development process in the U.S. by exploring the ideological predispositions of the American public, the analytical approaches applied to policy development and assessment, and the institutional and political environment in which policy is made. Typically, the understanding derived from this examination is applied to several policy issues of current interest.

POLS 171. Environmental Politics and Policy. 3 Units
Term Typically Offered: Spring only

Politics of human interaction with land, air and water. Political analysis of agenda setting, policy formation and administration (national, state, and local) of environmental programs. Focus on contemporary issues such as energy alternatives, management of toxics, land development, and pollution control.
Cross Listed: ENVS 171; only one may be counted for credit.

POLS 180. California State and Local Government. 3 Units
General Education Area/Graduation Requirement: GE AREA D, California State & Local Government
Term Typically Offered: Fall, Spring, Summer

California state, city and county politics and government. Comparisons with governments in other states. Meets State requirements in California State and Local Governments. Permits students who have fulfilled U.S. Constitution requirement in another state to meet graduation requirements for California State and Local Governments.

POLS 181. Comparative State Government. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150.
Term Typically Offered: Spring only

Examines the political diversity of the fifty states, with special attention paid to variations in state governing institutions. Topics covered include legislatures, governors, judiciaries, political parties, interest groups, elections, direct democracy, and state budget procedures.

POLS 182A. Sem Calif Govt+Politics. 3 Units
Term Typically Offered: Spring only

Open to selected students from each of the 20 CSU campuses, the Sacramento Semester program provides students with an opportunity to spend the semester studying and working directly in California State government. Participating students work as interns at the State Capitol for 25 or more hours each week. Interns are placed in legislators' offices, with legislative committees, party caucuses, lobbyists and interest groups, or in various executive, administrative, and judicial agencies. In addition to the internships, students participate in an academic seminar, California Government and Politics. The seminars frequently include as resource persons individuals who work in key policy-making positions in the state government.

POLS 182B. Sem Calif Govt+Politics. 3 Units
Term Typically Offered: Spring only

Open to selected students from each of the 20 CSU campuses, the Sacramento Semester program provides students with an opportunity to spend the semester studying and working directly in California State government. Participating students work as interns at the State Capitol for 25 or more hours each week. Interns are placed in legislators' offices, with legislative committees, party caucuses, lobbyists and interest groups, or in various executive, administrative, and judicial agencies. In addition to the internships, students participate in an academic seminar, California Government and Politics. The seminars frequently include as resource persons individuals who work in key policy-making positions in the state government.

POLS 184. Introduction to Urban Politics. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only

Problems of urban areas and proposed solutions; politics and government. May be offered as lecture-discussion class or as a seminar. Field study may be required.

POLS 195A. Internship. 1 - 6 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W. Minimum GPA of 2.5 (both in the major and overall).
Term Typically Offered: Fall, Spring, Summer

Credit/No Credit

POLS 195B. Internship Sacramento Semester. 1 - 6 Units
Prerequisite(s): Minimum GPA of 2.5 (both in the major and overall).
Term Typically Offered: Spring only

Credit/No Credit

POLS 195D. Internship - Washington DC. 6 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Credit/No Credit

POLS 198A. Odyssey Peer Advisers. 1 - 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Provides individualized learning opportunities (1-3 units per semester) for engaging in peer advising along with elective activities such as tutoring, assisting faculty with research, event planning and other activities of a comparable nature. Students should be upper division students or graduate students. The units may not be applied towards unit requirement of the Government major, Government IR and Government/Journalism.
Note: This course may be repeated up to a total of six units.

Credit/No Credit

POLS 198B. Peer Advising by Odyssey. 1 Unit
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Provides opportunity for lower division students, students on probation, and newly declared majors to be mentored by more advanced upper division students or graduate students. This peer advising will help students meet academic deadlines, achieve academic success, become engaged in campus activities and integrated into the Government Department. Units may not be applied towards unit requirement of the Government major, Government IR and Government/Journalism
Note: This course may be repeated one time only for unit credit.

Credit/No Credit

POLS 199. Independent Studies. 1 - 3 Units
Prerequisite(s): GOVT 1 or equivalent, and nine units upper division government courses.
Term Typically Offered: Fall, Spring

Permits a student to pursue study and research in an area not otherwise available through the regular curriculum. Open only to upper division Government majors with at least a 3.0 GPA in the major.
Credit/No Credit

POLS 200. Method and Scope in Political Science. 3 Units
Prerequisite(s): STAT 1 or its equivalent.
Term Typically Offered: Fall, Spring

Introduction to the philosophy of science, and the scope and methods of empirical research in political, social and policy science. In the area of philosophy of science, focuses on the logic of scientific inquiry, theory testing and confirmation and causal explanation. In the area of scope and methods, critically examines the scientific merits of several competing approaches to the study of politics and policy, as well as some of the major methodological controversies and debates in the literature.

POLS 210. Political Theory. 3 Units
Prerequisite(s): An upper division course in the field and/or instructor permission.
Term Typically Offered: Fall, Spring

Historical and social roots, democratic or authoritarian ideologies; the conflict of ideologies; philosophic approaches.
Note: May be repeated for credit with permission of Graduate Coordinator.

POLS 213. Special Topics in American Political Thought. 3 Units
Term Typically Offered: Fall, Spring

A class examining the historical and philosophical discourse in America on central topics of debate, such as the meaning of citizenship, civil society, democracy, federalism, religion, and civil rights open to both advanced undergraduates and graduate students.
Note: Undergraduates are strongly encouraged to have completed GOVT 113 or an equivalent course.

POLS 218. Special Topics in International Political Thought. 3 Units
Term Typically Offered: Fall, Spring

A class examining the philosophical underpinnings and the theatrical problems of central concepts and problems in international relations, including human rights, intercultural dialogue, problems of just war and international justice through a study of historical and contemporary texts open to both advanced undergraduates and graduate students.
Note: Undergraduates are strongly encouraged to have completed GOVT 118 or an equivalent course.

POLS 219. Specialized Studies in Political Theory. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Makes it possible for political theory students to deal with questions which theorists have asked, and to attempt to answer such questions for themselves.
Note: May be repeated for credit with permission of Graduate Coordinator.

POLS 230. Theories of International Relations. 3 Units
Prerequisite(s): Upper division course in the field and/or instructor permission.
Term Typically Offered: Fall, Spring

Examination of the theory and practice of international relations including such subfields as international law, international organization, foreign policy and national security policy.
Note: May be repeated for credit with permission of Graduate Coordinator. Cross Listed: IA 210; only one may be counted for credit.

POLS 236. Seminar in International Political Economy. 3 Units
Prerequisite(s): An upper division course in the field and/or instructor permission.
Term Typically Offered: Fall, Spring

This seminar is a graduate-level introduction to the theory and substance of international political economy (IPE). It examines the various theoretical approaches to IPE; considers the role of trade, money, and finance in the international political economy; analyzes the pattern and structure of global production, with an emphasis on multinational corporations; surveys international development issues, including Third World economic development strategies, the debt crises, structural adjustment, and economies in transition; and investigates the politics of globalization.
Cross Listed: IA 221; only one may be counted for credit.

POLS 239. Globalization and International Relations. 3 Units
Prerequisite(s): An upper division course in international relations or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to the theories and substance of globalization. It examines alternative theories of globalization; considers globalization's political impact on the territorial state, regionalism, the welfare state, the military, immigration, and the environment; investigates the politics of the anti-globalization backlash; and concludes with an assessment of the future political trends of globalization.
Cross Listed: IA 230; only one may be counted for credit.

POLS 240. Comparative Government and Politics. 3 Units
Prerequisite(s): Advanced course in the field.
Term Typically Offered: Fall, Spring

Advanced study of some of the world's governmental and political systems. May focus on single countries, groups of countries or general categories of systems. Considers theoretical concept and methodology.
Note: May be repeated for credit with permission of Graduate Coordinator. Cross Listed: IA 222; only one may be counted for credit.

POLS 249A. Middle East Politics and the United States. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Graduate introduction to politics and governments of the Middle East and the impact of the United States foreign policy in the region. Relies on a comparative frame to tease out the causes of intrastate and interstate conflicts in the region, as well as the effects of the American foreign policy on the contemporary political trends in the Middle East, including those relating to the Arab-Israeli conflict, Islamic political resurgence, and terrorism.

POLS 250. Basic Issues of American Government. 3 Units
Prerequisite(s): An upper division course in the field and/or instructor permission.
Term Typically Offered: Fall, Spring

Exploration in-depth of topics such as federalism, executive-legislative relationships, problems of representation, government reorganization, congressional reform, the electoral process.
Note: May be repeated for credit with permission of Graduate Coordinator.

POLS 270. Political Behavior and Political Processes: California and Beyond. 3 Units
Term Typically Offered: Fall, Spring

Course will explore public opinion, voting behavior, representation and political psychology with special focus on California.
Note: Undergraduates may take the course with instructor permission.

POLS 280. California Politics. 3 Units
Term Typically Offered: Fall, Spring

Advanced study of California's state and local governments, with emphasis on political history, political institutions, and the role of direct democracy on the state's government, budget and politics. Demographic and geographic elements will be scrutinized through a political focus. California's policy and political process will also be examined, as well as discussion of various political reforms.
Note: Undergraduates may take the course with instructor permission. Prerquisite

POLS 281. Comparative State Government. 3 Units
Term Typically Offered: Fall, Spring

Examines state political institutions and processes. Special attention will be paid to how the political variation among the states shapes processes and outcomes. Topics covered will include governors, legislatures, interest groups, public opinion, political parties, and elections.

POLS 284. Urban Politics. 3 Units
Term Typically Offered: Fall, Spring

In-depth exploration of the socio-economic problems of urban and metropolitan areas and an evaluation of proposed political and governmental solutions.
Note: May be repeated for credit with permission of Graduate Coordinator. Cross Listed: PPA 284; only one may be counted for credit.

POLS 293A. Senate Fellows Introductory Seminar. 3 Units
Term Typically Offered: Fall, Spring

Critical analysis and examination of the operation of the State Capitol and the larger political environment of political parties, interest groups, and public opinion.
Note: Open only to students admitted to the California Senate Fellows Program.

POLS 293B. Senate Fellows Policy Seminar. 3 Units
Term Typically Offered: Fall, Spring

Seminar will analyze procedural issues and public policy questions within the State Senate, legislature, and contemporary California politics.
Note: Open only to students admitted to the California Senate Fellows Program.

POLS 294A. Assembly Fellows Introductory Seminar. 3 Units
Term Typically Offered: Fall, Spring

Critical examination of state and local governmental institutions and processes. Seminar will impart an advanced understanding of the structures and processes of California's political institutions, government and legislature.
Note: Open only to students admitted to the Jesse M. Unruh Assembly Fellowship Program.

POLS 294B. Assembly Fellows Policy Seminar. 3 Units
Term Typically Offered: Fall, Spring

Seminar focuses on current California policy issues and the lawmaking process.
Note: Open only to students admitted to the Jesse M. Unruh Assembly Fellowship Program.

POLS 295. Government Internship. 1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised work experience in an approved legislative or administrative office at some level of local or state government, or in a politically-related organization that is concerned with government. Supervision is provided by the faculty instructor and responsible officials in the work situation.
Note: Open to all graduate students, subject to instructor permission. No more than 3 units of GOVT 295 may be counted toward the Master's degree.

Credit/No Credit

POLS 299. Independent Study. 1 - 3 Units
Term Typically Offered: Fall, Spring

For advanced graduate students who have demonstrated their ability to carry on advanced, independent research. Permits a student to pursue study and research in an area not otherwise available through the regular curriculum. Student must be advanced to candidacy.
Credit/No Credit

POLS 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy.
Term Typically Offered: Fall, Spring

Should be taken after completion of all other requirements for the degree. Students may choose from the following options, which they must declare when they advance to candidacy: Thesis, Project, or Comprehensive Examination.

BA in International Relations

Units required for Major: 42
Total units required for BA: 120

Program Description

The International Relations major complements a student's liberal arts education with an emphasis on understanding the theoretical and practical aspects of government and politics with a focus on global politics. The International Relations major is structured to provide students with a background in the basic fields of political science with an emphasis on the fields of Comparative Politics and International Politics, as well as to permit them to take supporting courses in a range of other disciplines with foci on politics and cultures in regions outside the United States and in the international system.

Minimum GPA Requirement

Students are required to maintain a minimum 2.0 GPA.

Program Requirements

Code	Title	Units
Required Lower Division Courses (3 Units)		
POLS 1	Essentials Of Government [1,2]	3
Required Upper Division Courses (15 Units)		
POLS 100	Introduction to Research Methods in Political Science	3
POLS 111	Political Thought II	3
or POLS 110	Political Thought I	
or POLS 112	Current Political Thought	
POLS 130	International Politics	3
POLS 136	International Political Economy	3
POLS 140	Comparative Politics	3
Electives (24 Units)		
Select 24 units		24
POLS 35	World Politics [2]	
POLS 118	Just War, Natural Right, and the Law of Nations	
POLS 119A	Socialism Marxism-Communism	
POLS 127	Elements of International Law	
POLS 131	International Organization	
POLS 132	War and Peace in the Nuclear Age	
POLS 133	American Defense and National Security	
POLS 134	War, Peace and the Mass Media [2]	
POLS 135	American Foreign Policy	
POLS 137	Nationalism	
POLS 138	UN Simulation	
POLS 139A	Globalization	
POLS 139B	International Politics and International Development	
POLS 139G	Intelligence and Espionage	
POLS 139S	Topics in Human Security	
POLS 141	Politics of the African Diaspora [2]	
POLS 142	Government and Politics in Africa [2]	
POLS 143	Causes of War, Causes of Peace [2]	
POLS 144	European Politics [2]	
POLS 145	Asian Politics	
POLS 147	Latin American Government and Politics [2]	
POLS 148	Governments and Politics in the Middle East [2]	
POLS 149A	Original Research in Comparative Politics	
POLS 149R	Comparative Revolutions	
POLS 162	American Film and Culture in the Nuclear Age	
POLS 166	Gender and Politics	

Up to 3 classes (9 Units) of Electives may be taken from the following approved list of classes in other departments:

ANTH 105	Anthropology of War
ANTH 145	Peoples and Cultures of Latin America
ANTH 161	African Cultures and Societies
ANTH 173	Anthropology of Contemporary Asia
ANTH 181	Anthropology of Human Rights
ASIA 151	Genocide in Southeast Asia
ECON 190	International Trade
ECON 192	International Finance
ECON 193	Development Economics
ETHN 137	Race and Ethnicity in Latin America and Caribbean [2]
GEOG 128	Geography Of Europe
HIST 105	Great Ages and Issues in Modern European History [2]
HIST 118A	World War I: Causes, Conduct, Consequences
HIST 134	The Rise and Fall of European Colonial Empires
HIST 137A	Latin American Revolutions in the Twentieth Century
HIST 138A	Colonial Latin America [2]
HIST 138B	Modern and Contemporary Latin America [2]

HIST 141	History of Africa Since 1800 [2]	
HIST 142	History of Women in Africa [2]	
HIST 143B	The Modern Middle East [2]	
HIST 149	The Making of Modern Southeast Asia	
SOC 122	Immigration Studies	
SOC 162	Middle Eastern Societies and Culture [2]	
SOC 163	Conflict, Oil and Development in the Middle East [2]	
SOC 164	Sociology of Globalization [2]	
WOMS 121	Women Of The Middle East [2]	
WOMS 125	Sex & Gender in South Asia	
WOMS 139	Violence Against Women [2]	
WOMS 147	Women's Global Issues	
Total Units		42

[1] POLS 150 or an AP Test of 3 or above in AP American Government may be used in place of POLS 1 to satisfy the requirement.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

[3] 21 of the 24 elective units must be upper division.

Note:

- POLS 35 may be taken to satisfy 3 elective units all others must be selected from Government courses numbered from 130 through 149. Students may also include POLS 118, POLS 119A, POLS 127 POLS 162, and POLS 166 as electives. Up to nine (9) units of work in classes in other disciplines that have an international relations/comparative politics content can be used to satisfy the requirements of the major. Approved classes are listed above.
- The Department strongly recommends that students select elective courses that include both *thematic* areas, such as globalization, internal organizations, and security studies, as well as *regional concentrations* such as Africa, Asia, Europe, Latin America, and the Middle east.
- If a student has not taken POLS 1 or its equivalent, then POLS 150 or a score on the AP American Government Exam of 3 or above may count as the prerequisite for the major..

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (9-12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. [3]		0 - 3
Area D: The Individual and Society (3-6 Units)		
Area D Course [2]		0
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [4]		0 - 3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		37-43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

[3] Department offers students a 'select from the following' option:

- If student chooses to take HIST 105, HIST 142, or WOMS 121 they will meet upper division Area C.

[4] Department offers students a 'select from the following' option:

- If student chooses to take ETHN 137, HIST 138A HIST 138B, HIST 141, HIST 143B, POLS 134, POLS 141, POLS 142, POLS 143, POLS 144, POLS 147, POLS 148, SOC 162, SOC 163, SOC 164, or WOMS 139 they will meet upper division Area D.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3-6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI) [3]		0 - 3
Graduation Requirements (required by Sacramento State) (9-12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [4]		0 - 3
Foreign Language Proficiency Requirement [5]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] Department offers students a 'select from the following' option:

- If student chooses to take HIST 105, HIST 138A, or HIST 138B they will meet the Writing Intensive (WI) Graduation Requirement.

[4] Department offers students a 'select from the following' option:

- If student chooses to take POLS 141 they will meet the Race and Ethnicity (RE) Graduation Requirement.

[5] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Political Science

Units required for Major: 42
Total units required for BA: 120

Program Description

The Political Science major complements a student's liberal arts education with an emphasis on understanding the theoretical and practical aspects of government and politics. The department offers a BA in Political Science, a BA in Political Science-Journalism, and the minor in Political Science. The Political Science major is structured to provide students with a comprehensive background in the basic fields of political science, as well as to permit them a range of choice in completing the program. The Political Science Department offers several courses integral to interdisciplinary programs such as California Studies, Environmental Studies, Ethnic Studies, Peace and Conflict Resolution Studies, and Women's Studies.

The department emphasizes its expectation that students seek faculty advice when planning their program. Students may ask any faculty member's assistance initially. As specific interests are developed, students may wish to seek the advice of faculty sharing their interests.

Note: Although it is not a requirement of the major, the department **strongly recommends** that students take an introductory statistics course as part of their undergraduate work. A course in statistics may be used to satisfy the GE requirement in mathematics.

Minimum GPA Requirement

Students are required to maintain a minimum 2.0 GPA in the Major.

Program Requirements

Code	Title	Units
Required Lower Division Courses (3 Units)		
POLS 1	Essentials Of Government [1,2]	3
Required Upper Division Courses (18 Units) [3]		
POLS 100	Introduction to Research Methods in Political Science	3
POLS 110	Political Thought I	3
or POLS 111	Political Thought II	
or POLS 112	Current Political Thought	
POLS 120A	Constitutional Law	3
or POLS 120B	Constitutional Rights and Liberties	
POLS 130	International Politics	3
POLS 140	Comparative Politics	3
POLS 170	Public Policy Development [4]	3
Electives (21 Units)		
Select 21 units [5]		21
Total Units		42

[1] POLS 150 or a score of 3 or higher on the AP American Government Exam may be used in place of POLS 1 to satisfy the requirement.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

[3] The Department recommends students take no more than two of these required courses a semester.

[4] POLS 170 should be taken in the final year of a student's undergraduate work.

[5] 18 of the 21 elective units must be upper division even though all 21 required elective units may be satisfied with upper division courses. POLS 10 and POLS 35 may be taken to fulfill 3 lower division units of the elective requirement.
Select courses from the following Fields below. A seminar and/or internship is strongly recommended.

- Political Theory
- Public Law and Judicial Studies
- International and Comparative Politics
- American Governments, Politics and Policy

These courses **must** be selected in consultation with an advisor from the Political Science Department.
Notes:

- POLS 150 may not be counted as an elective toward the major, but may be used in place of POLS 1 or as its equivalent as a prerequisite;
- Students may take a maximum of 6 units of a POLS 195 (Internship) within the major, but may use no more than 3 of those units to complete the 36 units of required upper division work.
- Students should be aware that the Department offers a concentration in International Relations that is distinct from a field emphasis within the major. See complete International Relations Concentration description.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course [2]		0
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements.		3

Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Total Units	46

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

BA in Political Science (International Relations)

Program scheduled for Discontinuation, please see the BA in International Relations for Program Requirements.

BA in Political Science and Journalism

Units required for Major: 51
Total units required for BA: 120

Program Description

A unique interdisciplinary program that spans the combined areas of Political Science and Journalism.

The University's association with the Washington Center makes it possible for California State University, Sacramento students to undertake an internship in Washington, D.C. There are many opportunities for Government-Journalism majors to do an internship to meet their unique interests through this program.

Note: Political Science and Journalism majors should have both an advisor in the Political Science Department and a Journalism Advisor in the Communication Studies Department.

Minimum Grade Requirement

Majors must complete each required lower and upper division Journalism course with a grade of 'C-' or better.

Program Requirements

Code	Title	Units
Required Lower Division Courses (9 Units)		
POLS 1	Essentials Of Government [1,2]	3
JOUR 30	News Writing	3
JOUR/COMS 55	Media Communication and Society	3
or JOUR 50	Media Literacy and Critical Thinking	
Required Upper Division Courses (33 Units)		
Political Science		
POLS 170	Public Policy Development	3
POLS 180	California State and Local Government [2]	3
Select one of the following:		3
POLS 153	The American Presidency	
POLS 154	Political Parties in America	
POLS 155	The Legislative Process	
POLS 156	Interest Groups	
POLS 157	Politics, Opinion, and Participation	
POLS 159A	Campaigns and Elections	
POLS 184	Introduction to Urban Politics	
Select one of the following:		3
POLS 120A	Constitutional Law	
POLS 120B	Constitutional Rights and Liberties	
Select one of the following:		3
POLS 130	International Politics	
POLS 131	International Organization	
POLS 135	American Foreign Policy	
Journalism		
JOUR 130A	News Reporting I	3
JOUR 130B	News Reporting II	3
JOUR/POLS 134	War, Peace and the Mass Media [2]	3
JOUR 135	Public Affairs Reporting [2]	3
JOUR/COMS 153	Journalism Law and Ethics	3
Internship		
Select one of the following:		3
POLS 195 Internship Course		
JOUR 195	Internship In Journalism	

Electives (9 Units)	
Select 6 units of upper division courses in Political Science [3]	6
Select one upper division course in Journalism	3
Total Units	51

[1] If a student has not taken POLS 1 or its equivalent, then POLS 150 may be used in place of POLS 1 or as its equivalent as a prerequisite.

[2] Course also satisfies General Education (GE)/Graduation Requirement.

[3] The Department of Political Science particularly recommends at least one course in political theory.
Note: POLS 150 may not be used as an elective.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course [2]		0
Area D Course		3
Area D Course		3
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies Graduation Requirement.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Capital Fellows Certificate in Applied Policy and Government

Units required for Certificate: 6

Program Description

Political Science, or Government, is devoted to study of the theory and practice of government and politics. The Political Science Department at Sacramento State offers courses in several fields of study, including: Political Theory; American Politics; Public Law; International Relations; Comparative Politics; and Public Policy. Over 70 courses cover all the major aspects of political science. Lower division courses satisfy General Education requirements and help to prepare students for advanced work.

Admission Requirements

Accepted to one of the four Capital Fellows Programs: Assembly, Judicial Administration, Executive, or Senate.

Program Requirements

Code	Title	Units
Required Courses		**6**
Select the two courses applicable to your program		
For Senate Fellows:		
POLS 293A	Senate Fellows Introductory Seminar	
POLS 293B	Senate Fellows Policy Seminar	
For Assembly Fellows:		
POLS 294A	Assembly Fellows Introductory Seminar	
POLS 294B	Assembly Fellows Policy Seminar	

For Executive Fellows:		
PPA 297A	Executive Fellows Introductory Seminar	
PPA 297B	Executive Fellows Policy Seminar	
For Judicial Administration Fellows:		
PPA 298A	Judicial Administration Fellows Introductory Seminar	
PPA 298B	Judicial Administration Fellows Policy Seminar	
Total Units		6

MA in Political Science (California and its Political Environment)

Total units required for MA: 30

Program Description

The Master of Arts program in Political Science is designed to orient the student toward critical investigation of problems in government and politics, and to improve the student's ability for independent study. This program is of special value to teachers of government in the public schools, to persons who contemplate public service or politics as a career, and to persons planning additional graduate study leading to the doctorate. The Political Science Department Graduate Coordinator acts as advisor to graduate students and should be consulted early in each student's program of graduate study.

Note: Because most graduate students work during the day, graduate courses are offered in the evening hours.

Admission Requirements

Admission as a classified graduate student in Political Science requires:

- a baccalaureate degree;
- a minimum 3.0 GPA in the last 60 units attempted and 3.0 GPA in the major;
- a satisfactory score on the aptitude portion of the Graduate Record Examination (the Department expects the student to achieve at least the 50th percentile in the combined verbal/analytic score);
- three letters of recommendation from individuals who can evaluate the applicant's potential for successful graduate study;
- a written statement explaining the applicant's purposes and goals in pursuing a master's degree in Political Science; and
- an example of written work which the applicant considers evidence of his/her best scholarship regardless of the grade received.

Applicants who have deficiencies in Admission Requirements that can be removed by specified additional preparation may be admitted to the degree program with conditionally classified graduate status. Students with an undergraduate major in **any** subject may be accepted; no minimum number of units in Government/Political Science is required. However, if a student's preparation in the field of government or political science is not adequate preparation for graduate study, he/she may be asked to complete some additional coursework before becoming classified. Any deficiencies will be noted on a written response to the student's admission application. No upper division prerequisite courses required as a condition of classification can be counted towards the degree requirement.

Admission Procedures

Applications are accepted as long as room for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6740:

- an online application for admission;
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State;* and
- Graduate Record Examination scores, aptitude portion only.

For more admissions information and application deadlines please visit http://www.csus.edu/gradstudies/.

At the same time, each applicant should forward to the Graduate Coordinator in Political Science the following:

- the three letters of recommendation;
- the applicant's written statement of purposes and goals; and
- the example of the applicant's best written work.

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA GPA: 3.0 with no grade below a 'C' (not a 'C-').

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed STAT 1 or its approved equivalent, a prerequisite to the program (does not count towards the degree) which must be taken before POLS 200;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA;
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver; and
- submitted a thesis prospectus (if the student elects to do a thesis).

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a Political Science Department advisor. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Courses (18 Units)		
POLS 200	Method and Scope in Political Science	3
Select one course in Political Theory:		3
POLS 210	Political Theory	

POLS 219	Specialized Studies in Political Theory	
Select one course in International Relations or Comparative Government:		3
POLS 230	Theories of International Relations	
POLS 240	Comparative Government and Politics	
Select one course in California Government and its Political Environment:		3
POLS 250	Basic Issues of American Government	
POLS 270	Political Behavior and Political Processes: California and Beyond	
POLS 280	California Politics	
POLS 281	Comparative State Government	
Select two additional courses in one of the three subfields		6
Other Course Requirements (9 Units) [1]		
Select one concentration among the following three fields:		9
Political Theory		
California and its Political Environment		
International Relations/Comparative Government		
Culminating Requirement (3 Units)		
POLS 500	Culminating Experience [2]	3
Total Units		30

[1] **Three** additional courses which may be completed from graduate seminars in the Department, from 200-level courses in related fields (6 units allowed with graduate coordinator's prior approval), from POLS 295 (3 units allowed), and/or from POLS 299 (6 units allowed). However, a maximum of 6 units of POLS 295 and/or POLS 299 may be applied to the MA.
Of these twelve units, up to 6 units may be in 100-level courses within the Political Science Department, chosen from a pre-approved list compiled by the graduate coordinator. Up to six units of coursework from the graduate fellows programs (Assembly Fellow, Executive Fellow or Senate Associates Program) can be counted towards the degree.

[2] By the time of Advancement to Candidacy, students must enroll in POLS 500 and choose either of the following options:
- Plan A: Masters Thesis
- Plan B: Comprehensive Exam (Students will take one exam in their area of emphasis and demonstrate a general comprehensive in that area)

Note: Students are not permitted to enroll in the culminating experience until they have Advanced to Candidacy, obtained a sponsor for their thesis, and received the approval of the Graduate Coordinator.

Note: Upper division undergraduate courses (100-level courses) which may be used towards the MA program must be individually approved by the Graduate Coordinator and will involve an additional work component over-and-above what is required for undergraduate students. A list of approved 100-level courses will be available semester-by-semester.

Concentration in California and its Political Environment [1]

Code	Title	Units
POLS 250	Basic Issues of American Government	3
POLS 270	Political Behavior and Political Processes: California and Beyond	3
POLS 280	California Politics	3
POLS 281	Comparative State Government	3
POLS/PPA 284	Urban Politics	3

[1] Students emphasizing in California and its Political Environment must take POLS 270 and POLS 280 as well as one other course. It is recommended you take four courses.

MA in Political Science (International Relations/Comparative Government)

Total units required for MA: 30

Program Description

The Master of Arts program in Political Science is designed to orient the student toward critical investigation of problems in government and politics, and to improve the student's ability for independent study. This program is of special value to teachers of government in the public schools, to persons who contemplate public service or politics as a career, and to persons planning additional graduate study leading to the doctorate. The Political Science Department Graduate Coordinator acts as advisor to graduate students and should be consulted early in each student's program of graduate study.

Note: Because most graduate students work during the day, graduate courses are offered in the evening hours.

Admission Requirements

Admission as a classified graduate student in Political Science requires:

- a baccalaureate degree;
- a minimum 3.0 GPA in the last 60 units attempted and 3.0 GPA in the major;
- a satisfactory score on the aptitude portion of the Graduate Record Examination (the Department expects the student to achieve at least the 50th percentile in the combined verbal/analytic score);
- three letters of recommendation from individuals who can evaluate the applicant's potential for successful graduate study;
- a written statement explaining the applicant's purposes and goals in pursuing a master's degree in Political Science; and
- an example of written work which the applicant considers evidence of his/her best scholarship regardless of the grade received.

Applicants who have deficiencies in Admission Requirements that can be removed by specified additional preparation may be admitted to the degree program with conditionally classified graduate status. Students with an undergraduate major in **any** subject may be accepted; no minimum number of units in Government/Political Science is required. However, if a student's preparation in the field of government or political science is not adequate preparation for graduate study, he/she may be asked to complete some additional coursework before becoming classified. Any deficiencies will be noted on a written response to the student's admission application. No upper division prerequisite courses required as a condition of classification can be counted towards the degree requirement.

Admission Procedures

Applications are accepted as long as room for new students exists. All prospective graduate students, including Sacramento State graduates,

must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6740:

- an online application for admission;
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State;* and
- Graduate Record Examination scores, aptitude portion only.

For more admissions information and application deadlines please visit http://www.csus.edu/gradstudies/.

At the same time, each applicant should forward to the Graduate Coordinator in Political Science the following:

- the three letters of recommendation;
- the applicant's written statement of purposes and goals; and
- the example of the applicant's best written work.

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA GPA: 3.0 with no grade below a 'C' (not a 'C-').

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed STAT 1 or its approved equivalent, a prerequisite to the program (does not count towards the degree) which must be taken before POLS 200;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA;
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver; and
- submitted a thesis prospectus (if the student elects to do a thesis).

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a Political Science Department advisor. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Courses (18 Units)		
POLS 200	Method and Scope in Political Science	3
Select one course in Political Theory:		3
POLS 210	Political Theory	
POLS 219	Specialized Studies in Political Theory	
Select one course in International Relations or Comparative Government:		3
POLS 230	Theories of International Relations	
POLS 240	Comparative Government and Politics	
Select one course in California Government and its Political Environment:		3
POLS 250	Basic Issues of American Government	
POLS 270	Political Behavior and Political Processes: California and Beyond	
POLS 280	California Politics	
POLS 281	Comparative State Government	
Select two additional courses in one of the three subfields		6
Other Course Requirements (9 Units) [1]		
Select one concentration among the following three fields:		9
Political Theory		
California and its Political Environment		
International Relations/Comparative Government		
Culminating Requirement (3 Units)		
POLS 500	Culminating Experience [2]	3
Total Units		30

[1] **Three** additional courses which may be completed from graduate seminars in the Department, from 200-level courses in related fields (6 units allowed with graduate coordinator's prior approval), from POLS 295 (3 units allowed), and/or from POLS 299 (6 units allowed). However, a maximum of 6 units of POLS 295 and/or POLS 299 may be applied to the MA.
Of these twelve units, up to 6 units may be in 100-level courses within the Political Science Department, chosen from a pre-approved list compiled by the graduate coordinator. Up to six units of coursework from the graduate fellows programs (Assembly Fellow, Executive Fellow or Senate Associates Program) can be counted towards the degree.

[2] By the time of Advancement to Candidacy, students must enroll in POLS 500 and choose either of the following options:
- Plan A: Masters Thesis
- Plan B: Comprehensive Exam (Students will take one exam in their area of emphasis and demonstrate a general comprehensive in that area)

Note: Students are not permitted to enroll in the culminating experience until they have Advanced to Candidacy, obtained a sponsor for their thesis, and received the approval of the Graduate Coordinator.

Note: Upper division undergraduate courses (100-level courses) which may be used towards the MA program must be individually approved by the Graduate Coordinator and will involve an additional work component over-and-above what is required for undergraduate students. A list of approved 100-level courses will be available semester-by-semester.

Concentration in International Relations/Comparative Government [1]

Code	Title	Units
POLS 230	Theories of International Relations	3
POLS 236	Seminar in International Political Economy	3
POLS 239	Globalization and International Relations	3
POLS 240	Comparative Government and Politics	3
POLS 249A	Middle East Politics and the United States	3

[1] Students emphasizing in International Relations and Comparative Government must take **three** of the five above. It is recommended you take four courses.

MA in Political Science (Political Theory)

Total units required for MA: 30

Program Description

The Master of Arts program in Political Science is designed to orient the student toward critical investigation of problems in government and politics, and to improve the student's ability for independent study. This program is of special value to teachers of government in the public schools, to persons who contemplate public service or politics as a career, and to persons planning additional graduate study leading to the doctorate. The Political Science Department Graduate Coordinator acts as advisor to graduate students and should be consulted early in each student's program of graduate study.

Note: Because most graduate students work during the day, graduate courses are offered in the evening hours.

Admission Requirements

Admission as a classified graduate student in Political Science requires:

- a baccalaureate degree;
- a minimum 3.0 GPA in the last 60 units attempted and 3.0 GPA in the major;
- a satisfactory score on the aptitude portion of the Graduate Record Examination (the Department expects the student to achieve at least the 50th percentile in the combined verbal/analytic score);
- three letters of recommendation from individuals who can evaluate the applicant's potential for successful graduate study;
- a written statement explaining the applicant's purposes and goals in pursuing a master's degree in Political Science; and
- an example of written work which the applicant considers evidence of his/her best scholarship regardless of the grade received.

Applicants who have deficiencies in Admission Requirements that can be removed by specified additional preparation may be admitted to the degree program with conditionally classified graduate status. Students with an undergraduate major in **any** subject may be accepted; no minimum number of units in Government/Political Science is required. However, if a student's preparation in the field of government or political science is not adequate preparation for graduate study, he/she may be asked to complete some additional coursework before becoming classified. Any deficiencies will be noted on a written response to the student's admission application. No upper division prerequisite courses required as a condition of classification can be counted towards the degree requirement.

Admission Procedures

Applications are accepted as long as room for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6740:

- an online application for admission;
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State;* and
- Graduate Record Examination scores, aptitude portion only.

For more admissions information and application deadlines please visit http://www.csus.edu/gradstudies/.

At the same time, each applicant should forward to the Graduate Coordinator in Political Science the following:

- the three letters of recommendation;
- the applicant's written statement of purposes and goals; and
- the example of the applicant's best written work.

Approximately six weeks after receipt of all items listed above, a decision regarding admission will be mailed to the applicant.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA GPA: 3.0 with no grade below a 'C' (not a 'C-').

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed STAT 1 or its approved equivalent, a prerequisite to the program (does not count towards the degree) which must be taken before POLS 200;
- completed at least 12 units in the graduate program with a minimum 3.0 GPA;
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver; and
- submitted a thesis prospectus (if the student elects to do a thesis).

Advancement to Candidacy forms are available on the Office of Graduate Studies website. The student fills out the form after planning a degree program in consultation with a Political Science Department advisor. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Courses (18 Units)		
POLS 200	Method and Scope in Political Science	3
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Select one course in California Government and its Political Environment:		3
POLS 250	Basic Issues of American Government	
POLS 270	Political Behavior and Political Processes: California and Beyond	
POLS 280	California Politics	
POLS 281	Comparative State Government	
Select two additional courses in one of the three subfields		6
Other Course Requirements (9 Units) [1]		
Select one concentration among the following three fields:		9
Political Theory		
California and its Political Environment		
International Relations/Comparative Government		
Culminating Requirement (3 Units)		
POLS 500	Culminating Experience [2]	3
Total Units		30

[1] **Three** additional courses which may be completed from graduate seminars in the Department, from 200-level courses in related fields (6 units allowed with graduate coordinator's prior approval), from POLS 295 (3 units allowed), and/or from POLS 299 (6 units allowed). However, a maximum of 6 units of POLS 295 and/or POLS 299 may be applied to the MA.
Of these twelve units, up to 6 units may be in 100-level courses within the Political Science Department, chosen from a pre-approved list compiled by the graduate coordinator. Up to six units of coursework from the graduate fellows programs (Assembly Fellow, Executive Fellow or Senate Associates Program) can be counted towards the degree.

[2] By the time of Advancement to Candidacy, students must enroll in POLS 500 and choose either of the following options:
- Plan A: Masters Thesis
- Plan B: Comprehensive Exam (Students will take one exam in their area of emphasis and demonstrate a general comprehensive in that area)

Note: Students are not permitted to enroll in the culminating experience until they have Advanced to Candidacy, obtained a sponsor for their thesis, and received the approval of the Graduate Coordinator.

Note: Upper division undergraduate courses (100-level courses) which may be used towards the MA program must be individually approved by the Graduate Coordinator and will involve an additional work component over-and-above what is required for undergraduate students. A list of approved 100-level courses will be available semester-by-semester.

Concentration in Political Theory [1]

Code	Title	Units
POLS 210	Political Theory	3
POLS 213	Special Topics in American Political Thought	3
POLS 218	Special Topics in International Political Thought	3
POLS 219	Specialized Studies in Political Theory	3

[1] Students emphasizing Political Theory must take **three** of the four listed courses in political theory. It is recommended you take four courses.

Minor in Political Science

Units required for Minor: 21, 15 of which must be in upper division

Program Description

Government, or Political Science, is devoted to study of the theory and practice of government and politics. The Political Science Department at Sacramento State offers courses in several fields of study, including: Political Theory; American Politics; Public Law; International Relations; Comparative Politics; and Public Policy. Over 70 courses cover all the major aspects of political science. Lower division courses satisfy General Education requirements and help to prepare students for advanced work.

Minimum Grade Requirement

A 'C' average is required in the Minor.

Program Requirements

Code	Title	Units
Select two of the following:		6
POLS 110	Political Thought I	
POLS 111	Political Thought II	
POLS 120A	Constitutional Law	
POLS 120B	Constitutional Rights and Liberties	
POLS 130	International Politics	
POLS 170	Public Policy Development	
Select 15 units of political science courses [1]		15
Total Units		21

[1] No more than six units may be lower division. Students may count as many as (6) units of a GOVT 195, or (3) units of a GOVT 195 and (3) units of POLS 199 toward completion of the minor.
POLS 1 (or its equivalent) or POLS 150 may count as the prerequisite for the minor; however, if POLS 150 is used as the prerequisite, it will not count toward the 15 units of upper division government courses required. POLS 150 cannot count as an elective for the minor.

Note: Students are permitted to repeat upper division courses a maximum of two times.

Psychology

College of Social Sciences and Interdisciplinary Studies

Program Description

Psychology is the scientific study of human and animal behavior, cognition, and emotion. It is a broad discipline that includes both basic research and the application of research findings to everyday life. The Sacramento State Psychology Department offers an undergraduate major and minor in Psychology and an undergraduate certificate in Applied Behavior Analysis. In addition, there are graduate programs in Applied Behavior Analysis, Industrial-Organizational Psychology, and General Psychology (which comprises a range of interests, including doctoral program preparation). At both the undergraduate and graduate levels, students may choose coursework, fieldwork, and research experiences that allow them to emphasize such areas as Applied Behavior Analysis, Clinical Psychology, Cognitive Psychology, Community Psychology, Cultural Psychology, Developmental Psychology, Industrial/Organizational

Psychology, Neuroscience, Quantitative Methods, Personality, and Social Psychology.

The Psychology program at Sacramento State is highly sought after and the undergraduate major is now officially impacted. Students wishing to become Psychology majors must meet eligibility requirements before applying for admission to the program. It is highly recommended that interested students speak with a Psychology advisor as soon as possible.

Degree Programs

Certificate in Behavior Analysis (p. 1067)

Minor in Psychology (p. 1072)

BA in Psychology (p. 1065)

MA in Psychology (General Psychology) (p. 1069)

MA in Psychology (Industrial-Organizational Psychology) (p. 1070)

MS in Applied Behavior Analysis (p. 1072)

Special Features

- The Psychology Department is housed in Amador Hall and contains extensive human and animal research facilities.
- The Psychological Services Center provides excellent learning opportunities for students in Applied Behavior Analysis. The six-room suite is equipped for audio and video recording of research sessions and a kitchenette for studies with children diagnosed with feeding difficulties.
- Available facilities support operant and neuroscience research with animals, including a rodent colony as well as equipment for behavioral procedures, histological techniques, and neurophysiological recordings.
- Computer labs are available for data collection, analysis, and teaching.
- The Psychology Department maintains close ties with the Sacramento community. Each year students conduct research projects or fieldwork in various community organizations and state agencies.
- Students are able to take independent study courses in Applied Behavior Analysis, Clinical Psychology, Cognition Cultural Psychology, Developmental Psychology, Industrial/Organizational Psychology, Neuroscience, Perception, Quantitative Methods, and Social Psychology.
- The Prospects Peer Mentoring and Advising Program allows students to give and receive information and support regarding academic and career planning.
- Our Annual Psychology Department Research Conference showcases student and faculty research projects for the campus community, providing professional development opportunities for students.
- Several student organizations are involved in extracurricular activities: Psi Chi, Psychology Society, and the Student Association for Applied Behavior Analysis.

Career Possibilities

Individuals with a Bachelor of Arts

Administrative Service Manager · Admissions Counselor · Behavior Specialist · Community Service Manager · Employee Assistance Program Associate · Health Educator · Human Factors Specialist · Management Analyst · Market Research Analyst · Mental Health Worker · Public Relations Specialist · Sales Manager · Sales Representative · Victim Advocate.

Individuals with a Master of Arts

Autism Specialist · Behavior Analyst · Behavioral Consultant · Case Manager · Career Counselor · Community College Instructor · Human Resource Specialist · Mental Health Counselor · Personnel Analyst · Private Sector Consultant · Program Director· Psychometric Specialist · Personnel Selection Consultant · Research Analyst · Research Program Manager · Research Technician · School Consultant · Test Validation Specialist · Training and Development Specialist

Contact Information

Rebecca Cameron, Department Chair
Pat Hughes, Administrative Support Coordinator
Amador Hall 350
(916) 278-6254
www.csus.edu/psyc (http://www.csus.edu/psyc/)

Faculty

AKUTSU, PHILLIP D.

AUGUST, RACHEL A.

BERRIGAN, LEE P.

BOHON, LISA

BRAND, DENYS

CALTON, JEFFREY L.

CAMERON, REBECCA P.

CYRENNE, DE-LAINE

ELLISON, ERIN ROSE

ENDRIGA, MARYA C.

FLICKER, SHARON

FURTAK, SHARON

GIGUERE, DAVID

HARRISON, LISA A.

HEINICKE, MEGAN

HURTZ, GREGORY

KIM-JU, GREGORY

KNIFSEND, CASEY

McTERNAN, MELISSA

MEYERS, LAWRENCE S.

MIGUEL, CAIO F.

MORRISON, ALEXANDRA

PENROD, BECKY

QIN, JIANJIAN

ROBERTS, KIM A.

STRAND, SARAH

STRICKLAND, ORIEL J.

WICKELGREN, EMILY A.

YOUNG, BRITTANY

PSYC 2. Introductory Psychology. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Provides a general overview of theory and research concerning psychological processes at the basic, individual and social levels. Topics will include physiological psychology, comparative psychology, learning, motivation, sensation and perception, developmental psychology, personality, social psychology, maladaptive behavior, individual differences, and selected other topics. Requires three hours of participation as a research subject.

PSYC 4. Navigating Psychology: The Major and Careers. 1 Unit
Prerequisite(s): PSYC 2 and Psychology majors only.
Term Typically Offered: Fall, Spring

Covers requirements for the major and career options in psychology and related fields. Students learn to design plans of study to meet requirements for the major and enhance career objectives. Introduces career options in various areas such as academic psychology, applied behavior analysis, counseling and mental health, education, industrial-organizational psychology and related fields. Class activities clarify students' career goals and develop skills for job seeking and graduate education. Requires participation as a research subject.
Credit/No Credit

PSYC 8. Methods of Psychology. 3 Units
Corequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Introduction to methods of the science of psychology. The topics include psychology as a way of knowing, the role of science in psychology, the nature of psychological research, research ethics, psychological literature and report writing, psychological measurement, and the design and analysis of case studies, survey research, field studies, correlational methods, and experimental methods. Requires three hours of participation as an experimental subject.

PSYC 9. Introductory Statistics for Psychology. 3 Units
Prerequisite(s): PSYC 2, may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to descriptive and inferential statistics as tools for evaluating data from Psychological research. Topics include: measures of central tendency, measures of variability, correlation and regression, sampling distributions, hypothesis testing procedures including t-tests and analysis of variance. Application of hand computation will be emphasized to include the interpretation and significance of the statistical findings.

PSYC 100. Cross-Cultural Psychology. 3 Units
Prerequisite(s): PSYC 2, PSYC majors only.
Corequisite(s): PSYC 8.
Term Typically Offered: Fall, Spring

Examination of similarities and differences in human behavior, cognition, and emotion across cultures. Empirical evidence from cross-cultural research in the various areas of psychology, including biological, clinical, cognitive, developmental, social, personality, and industrial/organizational psychology, is evaluated with the purpose of developing a global perspective on the psychological processes underlying human behavior, cognition, and emotion.

PSYC 101. Statistics for Psychology. 3 Units
Prerequisite(s): Passing score on ELM; PSYC 2, PSYC 4, PSYC 8. PSYC majors only. PSYC 4 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to descriptive and inferential statistics as tools for evaluating data from Psychological research. Topics include: measures of central tendency, measures of variability, correlation and regression, sampling distributions, hypothesis testing procedures including t-tests and analysis of variance, and selected other topics. Application of hand computation will be emphasized to include the interpretation and significance of the statistical findings.

PSYC 102. Advanced Methods and Statistics in Psychological Research. 4 Units
Prerequisite(s): PSYC 121; Psychology majors only.
Term Typically Offered: Fall, Spring

Plan and conduct projects using experimental, quasi-experimental and correlational methods. Evaluate published research and write proposals with attention to such issues as the reliability and validity of methods, the degree to which statistical assumptions are met, the adequacy of statistical power, and the internal and external validity of the project. Contemporary research design, measurement, and analysis techniques are examined, including the use of statistical software, for varieties of univariate and multivariate research designs. Lecture-discussion three hours; laboratory three hours.

PSYC 103. Perception. 3 Units
Prerequisite(s): PSYC 2, PSYC or CRJ majors only. PSYC 8 and PSYC 9 are recommended.
Term Typically Offered: Fall, Spring

Examination of how information about the outside world is sensed and how that information is organized and interpreted to form perceptions. Vision and audition will be primarily examined, along with some coverage of the other senses. Topics may include psychophysical methods, basic physiology and function of sensory systems, perception of color and form, motion, distance, auditory patterns, body and limb position, temperature, pain, perceptual constancies, attention, perceptual learning, adaptation, and perceptual development.

PSYC 104. Learning Theories. 3 Units
Prerequisite(s): PSYC 2, PSYC 8, PSYC 9, and PSYC majors only or instructor permission.
Term Typically Offered: Fall, Spring

Examination of classical and contemporary theories of learning, and a sampling of experimental findings which bear directly on the theories. Some attention is given to theory construction in psychology.

PSYC 106. Motivation. 3 Units
Prerequisite(s): PSYC 2; PSYC majors only or instructor permission.
Term Typically Offered: Fall, Spring

Study of theories and experimental findings related to basic processes in animal and human motivation.

PSYC 107. Controversial Issues in Psychology. 3 Units
Prerequisite(s): PSYC 121; Psychology majors only
Term Typically Offered: Fall, Spring

Consideration of unresolved issues of interest to psychology and the general public, such as the use of animals in research and mind and health. Emphasis is on critical analysis (but not solution) of the issues as they are presented in public discourse. Discussion format, written reports and evaluations.

PSYC 108. Organizational Psychology. 3 Units
Term Typically Offered: Fall, Spring

This course will provide an overview of the dynamics of human behavior in organizations, using the lens of psychological theory. Students will explore individual-, group-, and systems-level phenomena in organizations, with the overriding goal of understanding how to maximize performance, well-being, and satisfaction at work. Topics may include job attitudes, teams, organizational culture, individual differences, leadership, employee development, organizational change, occupational stress, fairness and diversity, and more.

PSYC 110. Cognitive Psychology. 3 Units
Prerequisite(s): PSYC 2; PSYC majors only. PSYC 8 and PSYC 9 are recommended.
Term Typically Offered: Fall, Spring

Examination of the basic concepts of cognitive psychology, including sensory storage, pattern recognition, attention, short-term memory, long-term memory, visual imagery, semantic memory structure, text processing, problem solving and decision-making. The relations among artificial intelligence, mental modeling, and the simulation of cognitive processes will also be explored.

PSYC 111. Foundations of Behavioral Neuroscience. 3 Units
Prerequisite(s): PSYC 2; PSYC majors and PSYC minors only. PSYC 8 and PSYC 9 are recommended.
Term Typically Offered: Fall, Spring

Introductory overview of the neurobiology of behavior. Emphasis is on the central and autonomic nervous systems and the endocrine system. Topics include physiological, biological and genetic factors involved in sensation and perception, motivation, learning and memory, emotion, social behavior, and mental disorders.

PSYC 115. Introduction to Neuroscience. 4 Units
Prerequisite(s): PSYC 2 and PSYC 8; PSYC or BIO majors only. PSYC 9 recommended.
Term Typically Offered: Spring only

Introduction to the structure and function of the nervous system including neuroanatomy, neurophysiology, and systems neuroscience. Lectures and readings emphasize the empirical questions, techniques and methods used in neuroscience research. Laboratory activities focus on nervous system structure and some of the specialized techniques used within the fields of cellular, systems, and behavioral neuroscience. Lecture-discussion three hours; laboratory three hours.
Cross Listed: BIO 115; only one may be counted for credit.

PSYC 116. Animal Behavior. 3 Units
Prerequisite(s): PSYC 2; PSYC majors only or instructor permission.
Term Typically Offered: Fall, Spring

Basic principles of animal behavior including the genetic, evolutionary and ecological mechanisms underlying courtship, reproduction, aggression, territoriality, communication and parental behavior; applied aspects of animal behavior; innate or naturally occurring behavior patterns necessary for survival in the natural environment; physiological, social and acquired aspects of animal and, secondarily, human behavior.

PSYC 117. Drugs and Behavior. 3 Units
Prerequisite(s): PSYC majors only or instructor permission.
Term Typically Offered: Fall, Spring

Examination of the classification of psychoactive drugs and their mode of action. Covers effects of psychoactive drugs on central nervous system structure and function and on behavior; use, abuse, effects, and dangers of therapeutic and recreational drugs; motivational aspects of drug use, and methods for treating addiction.

PSYC 118. Cognitive Neuroscience. 3 Units
Prerequisite(s): PSYC 111 or PSYC 115 or PSYC 117 or BIO 132.
Term Typically Offered: Fall, Spring

Examines how the nervous system accomplishes cognitive functioning. Brain mechanisms of higher functions such as memory, attention, sensorimotor integration, decision making, and language will be covered.

PSYC 119. Human Factors Psychology. 3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring

Study of the scientific application of psychology and human performance to the design of products and complex systems. Applications of perception, cognition, and human physical limitations are covered, with an emphasis on understanding how they relate to design. Topics include perception, attention, decision making, memory, action, and how they related to areas such as product design, human-machine interaction, health and medicine, aviation and aerospace, ergonomics of the workplace, and designing for special populations.

PSYC 120. Psychological Testing. 3 Units
Prerequisite(s): PSYC 121; PSYC majors only.
Term Typically Offered: Fall, Spring

Construction, application, interpretation and evaluation of psychological tests. Tests used to measure general mental ability, specific abilities and aptitudes, personality, interests and attitudes are surveyed.

PSYC 121. Methods and Statistics in Psychological Research. 3 Units
Prerequisite(s): PSYC 4 (may be taken concurrently), PSYC 8, and PSYC 9; PSYC majors only.
Term Typically Offered: Fall, Spring

Project-based experience of Psychology. Study of scientific processes in research such as literature reviews; developing testable hypotheses; design; IRB review; data collection, analysis, and interpretation; critical analysis of studies; APA paper preparation; and issues in dissemination. Study of some advanced statistical processes such as factorial ANOVAs, planned and post hoc comparisons, and multiple regression. Study of statistical software programs used in the analysis of data.

PSYC 122. Qualitative Research in Psychology. 3 Units
Prerequisite(s): PSYC 121 and PSYC majors only.
Term Typically Offered: Fall, Spring

Examines the philosophy underpinning the use of qualitative research and the methods and analyses strategies used in qualitative research. Methods may include interviews, focus groups, participant observation, and behavioral observation. Analyses strategies may include grounded theorizing, negative case analyses, developing case studies, and content coding. Issues pertaining to data accuracy and consistency will be examined, and the researcher's role in interpreting results. Students will complete research projects involving the collection and/or analyses of qualitative data.

PSYC 129. Behavioral Research Methods. 3 Units
Prerequisite(s): PSYC 121 and PSYC 171, PSYC majors only or ABA certificate students
Term Typically Offered: Fall, Spring, Summer

Covers evaluating and thinking critically about behavioral research (i.e., data collection, logic, designs). Topics include: comparing group and single-case designs; observational strategies and measuring inter-observer reliability; displaying and interpreting behavioral data; single-case experimental design including reversal, multiple-baseline, alternating treatments, changing-criterion, and combinatory designs; research ethics; identifying characteristics of pseudoscience; and disseminating behavioral research. The versatility of single-case designs will be discussed by including a wide range of case examples from multiple disciplines in the social and behavioral sciences and education.

PSYC 130. Personality Theories. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Detailed examination of classic and contemporary personality theories such as those of Freud, Jung, Adler, Horney, Fromm, Skinner, Dollard and Miller, Rotter, Bandura, Kelly, Rogers, Maslow and May. Theories will be considered with respect to content, conceptual image of the individual, and current status.

PSYC 134. Psychology of Human Sexuality. 3 Units
Prerequisite(s): PSYC 2.
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Covers the inherent biological, as well as the psychological, social and cultural similarities and differences between the sexes. Sexual myths and misconceptions are explored, and the sex roles and patterns of interaction currently practiced in our society are discussed.

PSYC 135. Psychology of Multicultural Groups. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Examines the role of culture, race, ethnicity, gender, and social class in human development and behavior within diverse cultural groups. Presents sociocultural and ecological perspectives on human development, i.e., that individuals must be understood in the context of his or her culturally patterned social relations, practices, institutions, and ideas. Explores psychological issues that pertain to the major ethnic minority groups in the U.S.

PSYC 137. Stress Management. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of the causes and manifested effects of various stressors related to acculturation, socio-economic, physical, occupational, and psychological pressures. Techniques for recognizing and coping with stress will be explored. Emphasis is on the development of skills to handle commonly encountered stress-producing situations.

PSYC 142. Community Psychology. 3 Units
Prerequisite(s): PSYC 121 and PSYC majors only.
Term Typically Offered: Fall, Spring

This course is designed to introduce you to the field of community psychology, which is concerned with the scientific study of social problems through collaborative research. This course will provide you with ecological frameworks that aim to reduce social problems (e.g., poverty, mental illness and others) as well as core values of community well-being, empowerment, and collaboration. You will be exposed to prevention and intervention programs employed to solve social concerns as well as potential implications for practice and policy.

PSYC 143. Practicum in Community Psychology. 3 Units
Prerequisite(s): academic level of senior, Psychology majors only, and instructor permission.
Corequisite(s): PSYC 142
Term Typically Offered: Fall, Spring

Classroom and on-site experience in community psychology. Students will work at a community organization for a minimum of six hours per week with supervision by authorized persons at the organization. Students will also attend weekly class meetings to discuss the application of concepts in community psychology to practicum experience. Topics include: ethics, structure and capacity of community organizations, working with diverse populations, and professional relationships.

PSYC 145. Social Psychology. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Empirical examination of the emotion, behavior, and cognition of individuals in social situations. Topics can include: social psychology methods, social perception, social cognition, attitudes, persuasion, social identity, gender identity, prejudice and discrimination, interpersonal attraction, close relationships, conformity, compliance, obedience to authority, helping behavior, aggression, group processes, and social psychology applications. Multiple perspectives discussed.

PSYC 148. Child Psychology. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Examination of behavioral and physiological development during the prenatal period, and behavioral, cognitive and social development during infancy and childhood. Theories, methods and empirical research will be studied.

PSYC 149. Psychology of Adolescence. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Growth and development during the adolescent period and the interrelationships between adolescents and their culture are studied. Physical, psychological, social and educational problems and their implications are considered.

PSYC 150. Psychological Aspects of Aging. 3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring

Developmental study of human aging emphasizing psychosocial, psychopathological, biological, intellectual and personality processes from a theoretical and research-oriented perspective. Influences including culture, gender, gender identity, race, ethnicity, sexual orientation, and socio-economic status on aging are examined.

PSYC 151. Psychological Aspects of Death and Dying. 3 Units
Prerequisite(s): Student's academic level must be Junior or higher to enroll in this class.
Term Typically Offered: Fall, Spring

Examination of the beliefs, attitudes, and behaviors associated with death and dying. Topics covered include children's and adults' concepts of dying and death; causes and types of death; self-destructive behavior; grief and mourning in the dying person and their survivors; physician aid in dying and other legal and ethical issues; and cross-cultural and historical perspectives on death.
Cross listed: GERO 124

PSYC 152. Psychological Aspects of Health, Wellness, and Illness. 3 Units
Prerequisite(s): PSYC 2 and PSYC 8.
Term Typically Offered: Fall, Spring

Examines social, psychological, and behavioral factors important for physical health and emotional well-being. Psychological perspectives are applied to such topics as behavioral medicine, health promotion and compromise, the stress-illness relationship, social relations, personality, emotions, chronic illness, death and dying, and health care provider and patient interactions. Explores the development of health problems and the causes of premature death, as well as research on how psychology can help people live longer, healthier lives.

PSYC 153. Political Psychology. 3 Units
Term Typically Offered: Fall, Spring

Examines the ways in which political behavior is shaped by individual beliefs, personalities, cognitive patterns, biases, and other psychological mechanisms. Students will engage with a wide range of research on topics such as cognitive styles, personality, obedience, psychological roots of terrorism, the psychology of ideology, and the role of emotion in politics.
Cross Listed: GOVT 152

PSYC 157. Psychology of Women. 3 Units
Prerequisite(s): PSYC 2 or instructor permission.
Term Typically Offered: Fall, Spring

Contemporary psychological theories and issues related to the psychology of women in America and globally. Psychological theories may include but are not limited to feminism, cognitive-behavioral, self-object relations, humanistic, social learning and existential. Issues may include development, sexuality, mental health, psychotherapy, physical health, education, work, violence against women, gender inequality, multicultural perspectives, aging, parenting, criminal behavior, politics, sexual slavery, reproductive rights, religion, spirituality, and the arts.
Note: A service course for WOMS.

PSYC 160. Homosexuality. 3 Units
Term Typically Offered: Fall, Spring

Exploration of the psychological world of gay men and lesbians. An examination of psychological theories, empirical research, and phenomenological perspectives. Covers psychological functioning, homophobia, disclosure, relationships, parenting, and aging.

PSYC 165. Evolutionary Psychology. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall only

Examination of empirical literature on emotion, behavior, and cognition of individuals from an evolutionary perspective. Topics can include: scientific methods in evolutionary psychology, survival strategies, mating strategies, parenting, kinship, cooperation, altruism, aggression, sexual conflict, and social dominance.

PSYC 167. Psychology in Personnel Training and Development. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Application of psychological principles to problems of personnel training and development; techniques for determining training requirements, motivating trainees, providing feedback on trainee performance, and ensuring positive transfer of training to the job situation; personnel development programs.

PSYC 168. Abnormal Psychology. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Detailed consideration of behavior disorders and maladaptive behavior: theories of causation, descriptions of the disorders, and strategies of various therapies.

PSYC 169. Industrial Psychology. 3 Units
Prerequisite(s): PSYC 2, PSYC 8.
Term Typically Offered: Fall, Spring

Comprehensive overview of various human resources practices and policies, with an emphasis on people's psychological reactions to them. Topics include: recruitment, employee selection, training, employee compensation, legal aspects of employment decisions, and ethics in human resource management.

PSYC 171. Applied Behavior Analysis. 3 Units
Prerequisite(s): PSYC 2 and PSYC majors or posted Behavior Analysis Certificate only, or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Introduction to theory, historical background, and philosophical assumptions relevant to behavior analysis with individuals. Lectures and laboratory activities in basic principles of behavior and methodology.

PSYC 177. Special Topics Capstone: Advanced Study in Psychology. 3 Units
Prerequisite(s): PSYC 2, 4, 8, 9, must have Senior status to enroll in course.
Term Typically Offered: Fall, Spring, Summer

Examines a special topic of interest in psychology. Offered by rotating instructors, the capstone explores selected topics in psychology, and contemporary developments in theories, methodologies, and/or methods in the selected sub-discipline or topical area. Topics can include subject matter from all areas of psychology, including, but not limited to: applied behavior analysis, clinical, cognitive, community, cultural, developmental, experimental, feminist, health, industrial-organizational, neuroscience, perception, quantitative, social, etc., as well as related methodologies. Recommend prior coursework in area of focus.
Note: May be repeated for credit providing the topic and instructor are not the same.

PSYC 181. Experimental Analysis of Behavior. 4 Units
Prerequisite(s): PSYC 9, PSYC 171, and PSYC majors only.
Term Typically Offered: Fall only

Extensive analysis of single subject experimental research on intermittent reinforcement of behavior, including complex schedules, stimulus control, generalization, and verbal behavior. Lecture-discussion three hours; laboratory three hours; laboratory may include a component of self paced instruction.

PSYC 183. Teaching of Psychology. 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Study of best practices in the Teaching of Psychology. Selected topics may include, course preparation, skills for fostering student learning, strategies for improving student writing, theories of assessment, using technology in the classroom, sensitivity to diversity, teaching special populations, and the ethical and legal issues faced in the classroom. Students attend scheduled seminars on course topics and course are mentored by a professor in the Department of Psychology (called Faculty Mentor/Sponsor).
Credit/No Credit

PSYC 184. Clinical Issues in Applied Behavior Analysis. 4 Units
Prerequisite(s): PSYC 2 and PSYC 171, and PSYC majors or ABA Certificate students only
Term Typically Offered: Spring only

Extensive study of applied behavior analytic methods in the assessment, development, and implementation of treatment programs for a variety of clinical issues including pediatric behavior problems, developmental disabilities, hyperactivity, parent-child difficulties, school-related problems, behavioral safety, brain injury, and dementia. Lecture three hours; laboratory three hours.

PSYC 185. Psychology of Exceptional Children. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Examines characteristics, special needs, and problems of children who differ from the group norm because of their level of abilities, physical handicaps, or other deviations.

PSYC 190. History and Systems of Psychology. 3 Units
Prerequisite(s): PSYC 9 and PSYC majors only.
Term Typically Offered: Fall, Spring

Covers the development of the various schools and systems of psychology, and their philosophical roots, interrelationships and differences. Normally taught with a seminar or proseminar format.

PSYC 191. Undergraduate Practicum in Behavior Analysis. 3 Units
Prerequisite(s): PSYC 171 or PSYC 181.
Term Typically Offered: Fall, Spring

Classroom and on-site experience in applied behavior analysis. Students will work at an approved agency for a minimum of 10 hours per week under the supervision of a Board Certified Behavior Analyst. Students will also meet in class to present and review their cases. Emphasis will be placed on treatment integrity and ethics.
Note: Requires permission of instructor. May be repeated for credit.

PSYC 194. Cooperative Research. 1 - 6 Units
Prerequisite(s): PSYC 2, PSYC 8, and PSYC 9. PSYC 121 recommended.
Term Typically Offered: Fall, Spring

Opportunity for dedicated students interested in graduate school or a career involving research to work cooperatively on a psychological research project under faculty supervision.
Note: May be repeated once for up to 6 units of credit.

PSYC 195A. Fieldwork in the Teaching of Psychology. 1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised experience in various educational and instructionally related tasks, such as leading discussion groups, setting up and presenting demonstrations, constructing and scoring tests, and tutoring, at selected educational institutions in the Sacramento area.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 195B. Fieldwork in Child Observation. 3 Units
Prerequisite(s): PSYC 148 or equivalent.
Term Typically Offered: Fall, Spring

Supervised observation of preschool children in a formal school setting.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 195C. Fieldwork in Industrial and Organizational Psychology. 1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised work experience at an appropriate level in business and governmental organizations.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 195F. Fieldwork in Community Psychology. 1 - 4 Units
Term Typically Offered: Fall, Spring

Supervised experience in various community and governmental agencies, such as the Suicide Prevention Service, Planned Parenthood, and the California Youth Authority. The experience must be of an applied psychological nature, determined collectively by the agency, the supervising faculty member, and the student.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit and a third time if another agency is involved.

Credit/No Credit

PSYC 195G. Fieldwork. 1 - 6 Units
Term Typically Offered: Fall, Spring

Projects in contemporary areas of psychology under the supervision of one or more faculty.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 196S. Psychology of Religion. 3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring

Introduction to psychological aspects of religion, including its foundations, measurement, and research methods. Selected topic areas include: religious & spiritual development; religion and spirituality in neuroscience, cognitive psychology, emotion, personality, social psychology, and cross-cultural psychology; religion and spirituality in health, mental health, coping, and psychotherapy.

PSYC 196T. Black Psychology. 3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring

Examines the concepts, issues and theories related to the psychology of the African American experience. Through the exploration of topics related to the African American experience in the United States, including, but not limited to, African philosophy, the US Census, media representations, language, and political enfranchisement, the course utilizes an interdisciplinary approach to interrogate the cultural, historical, political, and social factors influencing Black identity in the US and the creation of Black Psychology.

PSYC 197A. Advanced Research I. 1 - 4 Units
Prerequisite(s): PSYC 194 and permission of instructor and Department Chair. Graded; 1 - 4 units.
Term Typically Offered: Fall only

Advanced research opportunity for students who have completed previous research experiences in PSYC 194. Students in the course are expected to develop advanced skills in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 197B. Advanced Research II. 1 - 4 Units
Prerequisite(s): PSYC 197A and permission of instructor and Department Chair. Graded; 1 - 4 units.
Term Typically Offered: Fall, Spring

Advanced research opportunity for students who have completed previous research experiences in PSYC 197A. Students in the course are expected to demonstrate competence in advanced research skills in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 198A. Prospects for Success: Peer Mentee. 1 Unit
Term Typically Offered: Fall, Spring

Provide psychology majors with information and experiences necessary for developing academic goals, skills, and better understanding of the Psychology major. Weekly meetings with peer mentors to discuss topics that include academic planning, website navigation, preparation for meeting with professors, academic skills, student professionalism and resume/CV development.
Note: May be repeated for credit

Credit/No Credit

PSYC 198B. Prospects for Success: Peer Mentor. 2 - 3 Units
Prerequisite(s): PSYC 4 and permission from instructor
Term Typically Offered: Fall, Spring

Provide peer mentoring and advising to Psychology majors. Develop peer mentoring knowledge and skills through training and assigned readings. Peer mentors provide psychology majors with information and experiences necessary for developing academic goals, skills, and a better understanding of the Psychology major. Conduct weekly mentee meetings to discuss topics that include academic planning, website navigation, preparations for meetings with professors, academic skills, student professionalism and resume/CV development.

PSYC 199. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Requires permission of instructor and the Department Chair.

Credit/No Credit

PSYC 200. Methods in Empirical Psychology. **3 Units**
Prerequisite(s): PSYC 8, PSYC 101, PSYC 102.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Philosophy of science, critical thinking in the design of research studies, and professional issues. Topics include: nature of science; observational, experimental, and case study designs; formulating research questions; measurement strategies; scaling and coding; internal and external validity; naturalism in research; quasi-experiments; archival research; physical traces; data collection; interpreting results; program evaluation; professional writing; and ethics.

PSYC 202. Survey of Contemporary Statistical Methods in Psychological Research. **3 Units**
Prerequisite(s): Graduate standing; PSYC 102 or equivalent
Term Typically Offered: Fall, Spring

Broad coverage of common univariate and multivariate designs and analyses used in contemporary psychological research. Primary focus is on providing the basic tools for carrying out the analyses in statistical software and interpreting the results, as well as understanding results presented in published research reports. Topics include various ANOVA and multiple regression models and applications including related categorical and multivariate alternatives, such as logistic regression analysis, discriminant function analysis, MANOVA, path analysis, factor analysis, canonical correlation analysis.

PSYC 204. Advanced Topics in Statistical Methods for Psychological Research. **3 Units**
Prerequisite(s): PSYC 202
Term Typically Offered: Fall, Spring

Advanced treatment of selected research design and analysis methods of psychological research. Applications of the general and generalized linear models (e.g., multiple regression models, structural equation models, multilevel models, and limited dependent variable models) for a variety of research designs and data structures. Intermediate to advanced training in statistical software and data management. Focus is on understanding foundations and assumptions of the methods, understanding interrelationships between the methods, performing specialized and non-routine analyses when needed, and interpreting results in detail.

PSYC 205. Measurement Methods for Psychological Research and Practice. **3 Units**
Prerequisite(s): PSYC 202
Term Typically Offered: Fall, Spring

Detailed coverage of classical and modern theories and models of psychological measurement, and their applications in research and professional testing settings. Primary focus is on principles of constructing and analyzing measures, including both paper-and-pencil tests/surveys and performance-based tests that require rater judgment in scoring. Measurement models include classical testing theory, generalizability theory, confirmatory factor analysis, Rasch measurement, and item response theory.

PSYC 206. Tests and Measurement. **3 Units**
Prerequisite(s): Graduate standing and PSYC 102 or its equivalent.
Term Typically Offered: Fall, Spring

Examines the administration, interpretation, and application of psychological tests used by behavioral scientists in clinical, educational, organizational, and other settings. Test development, reliability and validity, and legal considerations will be discussed.

PSYC 209. Seminar in Systems of Psychology. **3 Units**
Term Typically Offered: Fall, Spring

Historical review of the systems of thought which led to modern psychology. An examination of current psychological systems and their development. Factors that differentiate psychological systems will be studied.

PSYC 210. Theories of Personality. **3 Units**
Prerequisite(s): PSYC 102 or equivalent; PSYC 102 may be taken concurrently.
Term Typically Offered: Fall, Spring

Study of the role of personality theory in the field of psychology, and an examination of the current theories.

PSYC 216. Current Literature in Personnel and Organizational Psychology. **3 Units**
Prerequisite(s): Course work in Personnel and Organizational Psychology; PSYC 102 or its equivalent.
Term Typically Offered: Fall, Spring

Analyzes selected current articles on theory and research in such journals as the Journal of Applied Psychology, Personnel Psychology, and Organizational Dynamics, with written and oral critiques.
Note: May be repeated twice for credit.

PSYC 216A. Current Literature and Applications in Industrial-Organizational Psychology. **3 Units**
Term Typically Offered: Fall only

Seminar to review current literature in selected organizational psychology topics, and develop proposals for applied research in industrial-organizational psychology. Literature focus will be centered on personal and interpersonal factors influencing the quality of work life and experiences of employees. Application focus will be centered on identifying organizational problems amenable to research, reviewing literature and common practices to identify potential solutions, designing a research methodology to address the problem and evaluate the solution, and writing research proposals including Human Subjects Review.

PSYC 216B. Current Literature and Applications in industrial-Organizational Psychology. **3 Units**
Prerequisite(s): PSYC 216A
Term Typically Offered: Spring only

Seminar to discuss implementation of applied research proposals from the previous semester and review current literature in performance management and workforce planning systems. Application focus will be centered on understanding organizational contexts and constraints for implementing research, obtaining managerial and participant cooperation, maintaining methodological rigor in the field, systematically and objectively recording data, and preparing data for analysis. Literature focus will be centered on methods for measuring employee performance relative to objectives, understanding performance barriers, and identifying human resource needs.

PSYC 217. Seminar in Social Psychology. 3 Units
Prerequisite(s): Graduate standing
Term Typically Offered: Fall, Spring

Review of classic and contemporary theories and research in social psychology. Topics may include group dynamics, social influence, aggression, helping behavior, attitudes, dissonance and self-justification, prejudice, stereotyping, and discrimination; automaticity and social cognition, motivation, and gender. Emphasis upon the application of social psychological theories and research to social problems.

PSYC 240. Seminar in Behavioral Neuroscience. 3 Units
Prerequisite(s): Graduate standing
Term Typically Offered: Fall, Spring

Surveys the fundamental principles of Behavioral Neuroscience, the connection between the brain and behavior. Topics may include: neuroanatomy, electrochemical transmission, sites and mechanism of drug action, sensation and perception, motor systems, developmental processes, neuroendocrine systems, learning and memory, attention, emotion, executive function, neurodegenerative disease and the neurobiology of mental illness. Seminal experiments and recent discoveries within the field will be reviewed and discussed with a focus on how these findings impacted and continue to influence past and current theory.

PSYC 241. Seminar in Cognitive Psychology. 3 Units
Prerequisite(s): Graduate standing
Term Typically Offered: Fall, Spring

Provides a survey of topics in human information processing. Selected topics may include perception, attention, memory, knowledge, categorization, problem solving, reasoning, decision making, and language comprehension and production. Classical theories and experiments in these areas will be reviewed in addition to applications of this work to practical problems.

PSYC 242. Seminar in Learning and Behavior. 3 Units
Prerequisite(s): Graduate standing
Term Typically Offered: Fall, Spring

Surveys the area of Psychology concerned with how people and animals learn and how their behaviors are changed as a result of this learning. Selected topics include: Inmate behaviors, respondent and operant learning, behavioral economics, comparative cognition, theories of imitation, choice and self-control. Classical theories and current experiments in these areas will be reviewed in addition to implications of this work to practical problems.

PSYC 251. Developmental Processes. 3 Units
Prerequisite(s): PSYC 148 or PSYC 149.
Term Typically Offered: Fall, Spring

Study of the psychological processes underlying development throughout the life span. Covers such topics as cognitive, language, emotional, and relationship development in terms of the individual. Attention will be given to functioning of the individual within social units such as the family.

PSYC 262. Theoretical Foundations of Organizational Psychology. 3 Units
Prerequisite(s): PSYC 108 or equivalent.
Term Typically Offered: Fall, Spring

Major theories that made significant theoretical contributions to organizational psychology are covered, along with areas of significant research which have provided the foundations of modern organizational psychology.

PSYC 267. Training & Employee Development. 3 Units
Term Typically Offered: Fall only

This course will provide an overview of the application of psychological principles to employee training and development, and an in-depth review of common training and development practices. Additional topics include techniques for determining training requirements, motivating trainees, providing feedback on trainee performance, ensuring positive transfer of training to the job environment, and employee development programs.

PSYC 268. Advanced Psychopathology. 3 Units
Term Typically Offered: Fall, Spring

Covers an advanced and detailed discussion of the description, etiology, development, dynamics and treatment of individuals with mental disorders. Since the DSM-IV is the major classification system used by mental health professionals, it will also be discussed. This manual describes essential features of a variety of disorders and outlines the basis on which an experienced clinician can differentiate one disorder from another.
Note: May substitute EDC 231.

PSYC 269. Analysis of Work and Employee Selection. 3 Units
Term Typically Offered: Spring only

Survey of work analysis, with emphasis on designing employee selection systems. Topics to include multiple methods for analysis of different types and aspects of work, and applications of the results such as: Explicating the performance construct for a given job; identifying human attributes required for successful performance; evaluating jobs in terms of compensation; selecting appropriate measurement methods for predictor and criterion constructs; evaluating predictor utility; and the legal environment for employee selection practice.

PSYC 271. Advanced Applied Behavior Analysis. 4 Units
Prerequisite(s): Graduate status and instructor permission.
Term Typically Offered: Fall, Spring

Designed both for graduate students who are interested in gaining knowledge about the fundamental principles of behavioral psychology and those who are pursuing certification as a Board Certified Behavior Analyst. Students will not only learn behavioral theory and the means by which behavior is increased, decreased, shaped and maintained, but they will learn to apply behavioral principles to more complex topics such as concept formation and novel behaviors.

PSYC 272. Research Methods in Behavior Analysis. 3 Units
Prerequisite(s): PSYC 171 or PSYC 181.
Term Typically Offered: Fall, Spring

Covers methods related to single-case research (i.e., data collection, logic, designs). Course content is based primarily on contemporary books and articles from peer-review journals. Topics include: measurement of behavior, methods of assessing inter-rater agreement; experimental design including, reversal designs, changing-criterion designs, alternating treatment designs, and multiple-baseline designs; and displaying and interpreting behavioral data. Current methodological issues will be discussed.

PSYC 274. Theoretical Foundations of Behavior Analysis. 3 Units
Prerequisite(s): PSYC171 or PSYC181 or equivalent.
Term Typically Offered: Fall, Spring

Covers major theories that have made significant contributions to behavior analysis, along with areas of significant research providing the foundations of radical behaviorism and contemporary behavior analysis. Topics include history of behaviorism, selection by consequences as a casual mode, pragmatism, determinism, logical positivism, dualism x monism, verbal behavior and private events.

PSYC 275. Applied Behavior Analysis in the Workplace. 3 Units
Prerequisite(s): Graduate students only
Term Typically Offered: Fall only

Overview of contemporary research and practice on the use of applied behavior analysis techniques in the workplace. Students will learn to use several performance assessment and improvement tools based on the operant learning literature, as well as learn strategies for effective supervision, training, and management of staff in human service organizations.

PSYC 281. Advanced Experimental Analysis of Behavior. 4 Units
Prerequisite(s): PSYC 271.
Term Typically Offered: Fall, Spring

Advanced consideration of small-N research designs. Analysis of complex contingencies of reinforcement and stimulus control as they apply to such topics as perceiving, thinking, abstractions, and concept formation. In-depth examination of behavior analytic principles in relation to choice behavior and verbal behavior.

PSYC 283. Teaching Of Psychology. 3 Units
Term Typically Offered: Fall, Spring

Covers the historical background of higher education, the social and administrative structure of colleges and universities, and the selection, preparation and planning of undergraduate psychology courses, particularly introductory courses.

PSYC 284. Assessment and Treatment of Behavior Problems. 4 Units
Prerequisite(s): Graduate status and instructor permission.
Term Typically Offered: Fall, Spring

Advanced study and practical experience in application and teaching of behavior analytic methods of assessment, data collection, program construction and evaluation for a variety of behavior problems. Students will become proficient in conducting functional analyses, positive programming, and constructing and implementing behavior intervention programs for behavior excesses (consistent with State of California laws) including, antecedent manipulations, differential reinforcement schedules, functional communication training, and response cost. They will be required to develop didactic skills with respect to these various programs. Lecture three hours; Lab three hours.

PSYC 291. Professional Issues in Behavior Analysis. 3 Units
Prerequisite(s): PSYC 271.
Term Typically Offered: Fall, Spring

Classroom and on-site experience in applied behavior analysis. Students will work at an approved agency for a minimum of 10 hours per week under the supervision of a Board Certified Behavior Analyst. Students will also meet in class to present and review their cases. Emphasis will be placed on treatment integrity and ethics.
Note: Requires permission of instructor. May be repeated for credit.

PSYC 294. Cooperative Research. 1 - 6 Units
Term Typically Offered: Fall, Spring

Students work cooperatively on a psychological research project under faculty supervision.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

PSYC 295A. Fieldwork in the Teaching of Psychology. 1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised experience in various educational and instructionally related tasks, such as leading discussion groups, setting up and presenting demonstrations, constructing and scoring tests, and tutoring, at selected educational institutions in the Sacramento area.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 295C. Fieldwork in Personnel and Organizational Psychology. 1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised work experience at a professional level in business and governmental organizations.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 295G. Fieldwork. 1 - 6 Units
Term Typically Offered: Fall, Spring

Projects in contemporary areas of psychology under the supervision of one or more faculty.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 297A. Advanced Graduate Research I. 1 - 4 Units
Prerequisite(s): PSYC 294
Term Typically Offered: Fall, Spring

Advanced research opportunity for graduate students who have completed previous research experiences in PSYC 294. Students in the course are expected to develop advanced skills in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 297B. Advanced Graduate Research II. 1 - 4 Units
Prerequisite(s): PSYC 297A
Term Typically Offered: Fall, Spring

Advanced research opportunity for graduate students who have completed previous research experiences in PSYC 297A. Students in the course are expected to demonstrate competence in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 299. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Requires approval of instructor and Department Chair.
Credit/No Credit

PSYC 500A. Culminating Experience. 4 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree.

PSYC 500B. Culminating Experience. 2 Units
Prerequisite(s): PSYC 500A.
Term Typically Offered: Fall, Spring

Continuation of work on thesis or project.

BA in Psychology

Units required for Major: 46-50
Total units required for BA: 120

Program Description

With a Bachelor of Arts in Psychology, graduates can qualify for positions requiring an understanding of human behavior in public service, education, or business. The undergraduate Behavior Analysis Certificate qualifies students for positions requiring the application of behavior analysis in educational settings and health and human service agencies.

The Psychology program at Sacramento State is highly sought after and the undergraduate major is officially impacted. Students wishing to become Psychology majors must meet eligibility requirements before applying for admission to the program. It is highly recommended that interested students speak with a Psychology advisor as soon as possible.

Students interested in a Psychology major or minor should contact the Psychology Department in Amador Hall room 350.

Minimum Grade Requirement

Once admitted to the program, PSYC 2, PSYC 8, AND PSYC 121 must each be completed with a minimum grade of 'C-' or better.

Coursework Sequencing

The Psychology Department strongly recommends that Psychology Majors sequence their courses in the following manner to provide them with an optimal learning experience:

Code	Title	Units
Freshmen and Sophomores		
Lower division GE requirements, CHDV 30, PSYC 2, PSYC 4, PSYC 8, PSYC 9 and electives		
Juniors		
Upper division GE requirements, PSYC 121 (and PSYC 102 for graduate school aspirants), any upper division Psychology courses and electives		
Seniors		
Upper division GE requirements, any upper division Psychology courses, Psychology capstone course and electives		

It is important to choose courses in the sequence outlined above. Otherwise, there could be a delay in completion of the major and graduation.

Note: Transfer students must take at least 15 units of Psychology courses in residence at Sacramento State; 12 of those units must be upper division.

Program Requirements

Code	Title	Units
Required Lower Division Courses (13 Units)		
PSYC 2	Introductory Psychology [1,2]	3
CHDV 30	Human Development	3
PSYC 4	Navigating Psychology: The Major and Careers	1
PSYC 8	Methods of Psychology [2]	3
PSYC 9	Introductory Statistics for Psychology	3
Required Upper Division Courses (33-37 Units)		
PSYC 100	Cross-Cultural Psychology	3
PSYC 121	Methods and Statistics in Psychological Research [2]	3
Select one of the following methods courses: [3]		*3 - 4*
PSYC 102	Advanced Methods and Statistics in Psychological Research	
PSYC 120	Psychological Testing	
PSYC 122	Qualitative Research in Psychology	
PSYC 129	Behavioral Research Methods	
Select one of the following biological processes courses:		*3 - 4*
PSYC 111	Foundations of Behavioral Neuroscience	
PSYC/BIO 115	Introduction to Neuroscience	
PSYC 116	Animal Behavior	
PSYC 117	Drugs and Behavior	

Select four courses, with at least one from Cognitive/Learning and one from Individual/Social Processes		*12 - 13*
Cognitive and Learning Processes		
PSYC 103	Perception	
PSYC 104	Learning Theories	
PSYC 106	Motivation	
PSYC 110	Cognitive Psychology	
PSYC 118	Cognitive Neuroscience	
PSYC 181	Experimental Analysis of Behavior	
Individual and Social Processes		
PSYC 108	Organizational Psychology	
PSYC 130	Personality Theories	
PSYC 142	Community Psychology	
PSYC 145	Social Psychology	
PSYC 148	Child Psychology	
PSYC 168	Abnormal Psychology	
PSYC 171	Applied Behavior Analysis	
Select one of the following human diversity courses:		*3*
PSYC 135	Psychology of Multicultural Groups	
PSYC 150	Psychological Aspects of Aging	
PSYC 157	Psychology of Women	
PSYC 160	Homosexuality	
PSYC 185	Psychology of Exceptional Children	
Select one of the following capstone courses:		*3 - 4*
PSYC 107	Controversial Issues in Psychology	
PSYC 119	Human Factors Psychology	
PSYC 143	Practicum in Community Psychology	
PSYC 152	Psychological Aspects of Health, Wellness, and Illness	
PSYC 169	Industrial Psychology	
PSYC 177	Special Topics Capstone: Advanced Study in Psychology	
PSYC 183	Teaching of Psychology	
PSYC 184	Clinical Issues in Applied Behavior Analysis	
PSYC 190	History and Systems of Psychology	
PSYC 194	Cooperative Research	
PSYC 198B	Prospects for Success: Peer Mentor	
Electives		*3*
Select one additional upper division Psychology course (numbered 100-199)		
Total Units		46-50

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Must be completed with a minimum grade of 'C-' or better.

[3] Select PSYC 102 if planning to enter a graduate program in Psychology.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking [2]		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course [3]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		46

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department recommends ANTH 4, ENVS 11, or SOC 8 to meet Area A3.

[3] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [2]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Certificate in Behavior Analysis

Units required for Certificate: 20

Program Description

The undergraduate Behavior Analysis Certificate qualifies students for positions requiring the application of behavior analysis in educational settings and health and human service agencies. Specialized coursework is taken concurrently with established degree requirements. Courses for the Certificate program are applicable toward course requirements for the major.

To receive the Sacramento State certification in Behavior Analysis, students must:

- complete a baccalaureate degree program with a major in Psychology or a related field;
- achieve a passing grade of 'C' or better in each of the BA Certificate Program courses.

Additional certification information may be obtained from the Psychology Department Office.

Program Requirements

Code	Title	Units
PSYC 171	Applied Behavior Analysis	3
PSYC 181	Experimental Analysis of Behavior	4
PSYC 184	Clinical Issues in Applied Behavior Analysis	4
PSYC 185	Psychology of Exceptional Children	3
PSYC 129	Behavioral Research Methods	3
PSYC 191	Undergraduate Practicum in Behavior Analysis,Ethics in Behavior Analysis	3
Total Units		20

MA in Industrial-Organizational Psychology

Total units required for MA: 31-33

Program Description

The Master of Arts in Industrial-Organizational Psychology is designed for students who wish to develop marketable career skills that allow them to apply psychological principles and research methods to work-related issues. The I-O program at CSUS was strongly influenced by the 2016 Guidelines for Education and Training in Industrial-Organizational Psychology, published by the Society for Industrial and Organizational Psychology. While we cover all 24 major competency areas in the SIOP Guidelines to some degree, we give more emphasis to some than we do others—a strategy that is common and fully expected in master's programs according to the narrative of the SIOP Guidelines. In consideration of the typical jobs held by master's level I-O practitioners in general and especially in the local employment market for our students and alumni, our program gives primary emphasis to topics in human resource planning and development (e.g., job/work analysis; employee recruitment, testing, and selection; employee training; performance management) and general analytical skills (e.g., research methods; measurement; data analysis). These topics are slanted more toward the "industrial" side of the I-O field. Current literature in organizational psychology topics such as work attitudes and motivation, groups and teams, and occupational health and safety have important implications for the aforementioned human resource planning and development topics, and are covered more briefly in the coursework.

Many of our students work locally in I-O-related positions while taking classes, and often have full-time employment upon graduating. Our graduates are sought for employment in various branches of the State of California, other public sector agencies, and private sector consulting firms.

At Sacramento State students in the I-O option have many opportunities to pursue their interests in the field. These opportunities include:

- Completing a supervised applied project, representing their area of research expertise and interest
- Working with I-O faculty in their research labs and presenting research at conferences or submitting work for publication
- Teaching Assistant experience
- Applied fieldwork projects

All students who complete the program requirements are expected to finish the program in 2.5 years. Students who successfully complete the I-O program will have "Industrial-Organizational Psychology" printed on their transcripts and diplomas.

Admission Requirements

Admission to graduate study in Psychology is selective. The Department equally weighs the candidate's overall grade point average (GPA) and scores on the Graduate Record Examination (GRE). An overall GPA of 3.0 is recommended. When making admissions decisions, the Department takes into consideration the candidate's combined GPA and GRE score, letters of recommendation, previous (research and/or practical) experience, the candidate's interest in a particular faculty member's research agenda, and additional materials as required by each program option (ABA, General MA, and I/O).

Applicants are required to have completed upper division undergraduate psychology courses in statistics and research methods, with at least 'C' grades in those courses, as well as a balanced and academically strong group of upper division courses covering at least five different core academic areas of psychology (e.g., biological, clinical, cognitive, developmental, social). The upper division psychological research methods/statistics requirement is met by PSYC 121 and PSYC 102 taken at Sacramento State, or their equivalents at other universities. Upper division research methods/statistics courses from other four-

year universities must be reviewed and approved for equivalency by the Department's Graduate Coordinator.

Please visit www.csus.edu/psyc/grad-students/graduate-program-dev.html for information on each option's additional requirements.

Admission Procedures

All applicants, including Sacramento State graduates, must apply to both the University and the Psychology Department. Please submit the following to the Sacramento State Office of Graduate Studies:

- an application for admission—via CalState Apply (https://www2.calstate.edu/apply/)
- two sets of official transcripts from all colleges and universities attended, other than Sacramento State, should be sent to:

  California State University, Sacramento
  Office of Graduate Studies
  River Front Center 215
  6000 J Street
  Sacramento, CA 95819-6112

- Official Graduate Records Exam (GRE) scores (be aware that it takes approximately six weeks from the test date for scores to be forwarded); for more admissions information and application deadlines please visit http://www.csus.edu/gradstudies

At the same time, each applicant must file on-line with the Psychology Department:

- a completed application form;
- one set of unofficial transcripts from all colleges and universities attended, including Sacramento State transcripts;
- unofficial copies of the General GRE scores*;
- three letters of recommendation, from individuals who can evaluate the applicant's potential for successful graduate study. At least two letters from faculty are preferred. See application brochure for link—available from www.csus.edu/psyc/grad-students/graduate-program-dev.html ;
- additional materials, as required by each specific option (General MA, ABA and I/O).

*The General GRE must have been taken by the application deadline.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 34-36
Minimum Cumulative GPA: 3.0. All units must be completed with a grade of "B" or better.

The field of Industrial-Organizational Psychology (I-O Psychology) covers all aspects of psychology in the workplace, including such sub-topics as: organizational development, leadership, performance evaluation, personnel selection, test validation and development, work teams, training, and personality influences.

The Industrial-Organizational Psychology Option at Sacramento State is designed to give broad-based training in the relevant content areas as well as provide a strong methodological background. Students obtaining the Master's degree should be prepared for a career as a personnel manager, a testing specialist, a member of an I-O consulting group; they should also be prepared for further graduate work at the doctoral level. By meeting all of the requirements for the degree, students will have met the master's level educational competencies identified by the Society for Industrial and Organizational Psychology.

Students are strongly advised to keep in contact with professors in the Psychology Department for academic advising.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of 200-level courses in the graduate program with a minimum 3.0 GPA;
- selected a Thesis or Project committee;
- obtained the committee's approval of a proposal for the thesis or project (as indicated by committee members' signatures on the Department's thesis/project approval form); and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

The student will complete the Advancement to Candidacy form after planning a degree program in consultation with a Psychology advisor and members of the student's thesis/project committee. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Core Courses (6 Units)		
PSYC 200	Methods in Empirical Psychology	3
PSYC 202	Survey of Contemporary Statistical Methods in Psychological Research	3
Required Area Courses (18 Units)		
PSYC 204	Advanced Topics in Statistical Methods for Psychological Research	3
or PSYC 205	Measurement Methods for Psychological Research and Practice	
PSYC 206	Tests and Measurement	3
PSYC 267	Training & Employee Development	3
PSYC 269	Analysis of Work and Employee Selection	3
PSYC 216A	Current Literature and Applications in Industrial-Organizational Psychology	3
PSYC 216B	Current Literature and Applications in industrial-Organizational Psychology	3
Required Elective Course (3 Units)		
PSYC 294	Cooperative Research	3
or any 200-level course		
Culminating Experience (4-6 Units)		
PSYC 500A	Culminating Experience	4
PSYC 500B	Culminating Experience [1]	2
Total Units		31-33

[1] Students must enroll in PSYC 500B if thesis/project is not satisfactorily completed while enrolled in PSYC 500A.

MA in Psychology (Applied Behavior Analysis)

Program scheduled for Discontinuation, please see the MS in Applied Behavior Analysis (p. 1072) for Program Requirements.

MA in Psychology (General Psychology)

Total units required for the MA: 30

Program Description

The Master of Arts program in Psychology is designed to provide specialized education in the field of psychology. With a MA in Psychology, one can qualify for positions similar to those associated with a BA, though at a higher level of responsibility. Advisors play an active role in the planning process, and students are strongly encouraged to consult with faculty on a continual and intensive basis as soon as they begin their studies in the program. MA students can prepare for doctoral study in any area of Psychology or specialize in areas such as Applied Behavior Analysis or Industrial-Organizational Psychology. The Graduate Brochure contains the department application procedures, including GRE requirements and the departmental application form.

Although the program is based on a core set of requirements, the structure of the program allows for flexibility. While much material is covered in regular course offerings, the Department recognizes that specialized study and the development of certain types of skills must take place on a one-to-one student-instructor basis. This includes research activities in the laboratory, field, or library; teaching activities; and volunteer work in community mental health agencies, government agencies, schools, and/or businesses. Academic credit under individualized study or fieldwork designations is available for these purposes.

In the General Psychology option, students can create individual programs in conjunction with the faculty to prepare for employment or further study in doctoral programs in a variety of specialized fields, such as Clinical, Cognitive, Developmental, Educational, Experimental, Industrial/Organizational, Neuroscience, Quantitative, and Social Psychology.

Admission Requirements

Admission to graduate study in Psychology is selective. The Department equally weighs the candidate's overall grade point average (GPA) and scores on the Graduate Record Examination (GRE). An overall GPA of 3.0 is recommended. When making admissions decisions, the Department takes into consideration the candidate's combined GPA and GRE score, letters of recommendation, previous (research and/or practical) experience, the candidate's interest in a particular faculty member's research agenda, and additional materials as required by each program option (ABA, General MA, and I/O).

Applicants are required to have completed upper division undergraduate psychology courses in statistics and research methods, with at least 'C' grades in those courses, as well as a balanced and academically strong group of upper division courses covering at least five different core academic areas of psychology (e.g., biological, clinical, cognitive, developmental, social). The upper division psychological research methods/statistics requirement is met by PSYC 121 and PSYC 102 taken at Sacramento State, or their equivalents at other universities. Upper division research methods/statistics courses from other four-year universities must be reviewed and approved for equivalency by the Department's Graduate Coordinator.

Please visit www.csus.edu/psyc/grad-students/graduate-program-dev.html for information on each option's additional requirements.

Admission Procedures

All applicants, including Sacramento State graduates, must apply to both the University and the Psychology Department. Please submit the following to the Sacramento State Office of Graduate Studies:

- an application for admission—via CalState Apply (https://www2.calstate.edu/apply/)
- two sets of official transcripts from all colleges and universities attended, other than Sacramento State, should be sent to:

  California State University, Sacramento
  Office of Graduate Studies
  River Front Center 215
  6000 J Street
  Sacramento, CA 95819-6112

- Official Graduate Records Exam (GRE) scores (be aware that it takes approximately six weeks from the test date for scores to be forwarded); for more admissions information and application deadlines please visit http://www.csus.edu/gradstudies

At the same time, each applicant must file on-line with the Psychology Department:

- a completed application form;
- one set of unofficial transcripts from all colleges and universities attended, including Sacramento State transcripts;
- unofficial copies of the General GRE scores*;
- three letters of recommendation, from individuals who can evaluate the applicant's potential for successful graduate study. At least two letters from faculty are preferred. See application brochure for link—available from www.csus.edu/psyc/grad-students/graduate-program-dev.html ;
- additional materials, as required by each specific option (General MA, ABA and I/O).

*The General GRE must have been taken by the application deadline.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30
Minimum Cumulative GPA: 3.0. All units must be completed with a grade of "B" or better.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of 200-level courses in the graduate program with a minimum 3.0 GPA;
- selected a Thesis or Project committee;

- obtained the committee's approval of a proposal for the thesis or project (as indicated by committee members' signatures on the Department's thesis/project approval form); and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

The student will complete the Advancement to Candidacy form after planning a degree program in consultation with a Psychology advisor and members of the student's thesis/project committee. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Core Courses (6 Units)		
PSYC 200	Methods in Empirical Psychology	3
PSYC 202	Survey of Contemporary Statistical Methods in Psychological Research	3
Group 1 Seminars (3 Units)		
Select one of the following:		3
PSYC 209	Seminar in Systems of Psychology	
PSYC 210	Theories of Personality	
PSYC 217	Seminar in Social Psychology	
PSYC 251	Developmental Processes	
PSYC 268	Advanced Psychopathology	
Group 2 Seminars (3 Units)		
Select one of the following:		3
PSYC 240	Seminar in Behavioral Neuroscience	
PSYC 241	Seminar in Cognitive Psychology	
PSYC 242	Seminar in Learning and Behavior	
Methods (3 Units)		
Select one of the following:		3
PSYC 204	Advanced Topics in Statistical Methods for Psychological Research	
PSYC 205	Measurement Methods for Psychological Research and Practice	
PSYC 206	Tests and Measurement	
PSYC 272	Research Methods in Behavior Analysis	
Additional Courses (11 Units)		
PSYC 283	Teaching Of Psychology	3
Select two other PSYC courses (in any combination) from Group 1 Seminars, Group 2 Seminars, or Methods		6
PSYC 294	Cooperative Research	2
or PSYC 299	Special Problems	
Culminating Experience (4-6 Units)		
PSYC 500A	Culminating Experience	4
PSYC 500B	Culminating Experience [1]	2
Total Units		30-32

[1] Students must enroll in PSYC 500B if thesis/project is not satisfactorily completed while enrolled in PSYC 500A.

MA in Psychology (Industrial-Organizational Psychology)

Total units required for MA: 30

Program Description

The Master of Arts program in Psychology is designed to provide specialized education in the field of psychology. With a MA in Psychology, one can qualify for positions similar to those associated with a BA, though at a higher level of responsibility. Advisors play an active role in the planning process, and students are strongly encouraged to consult with faculty on a continual and intensive basis as soon as they begin their studies in the program. MA students can prepare for doctoral study in any area of Psychology or specialize in areas such as Applied Behavior Analysis or Industrial-Organizational Psychology. The Graduate Brochure contains the department application procedures, including GRE requirements and the departmental application form.

Although the program is based on a core set of requirements, the structure of the program allows for flexibility. While much material is covered in regular course offerings, the Department recognizes that specialized study and the development of certain types of skills must take place on a one-to-one student-instructor basis. This includes research activities in the laboratory, field, or library; teaching activities; and volunteer work in community mental health agencies, government agencies, schools, and/or businesses. Academic credit under individualized study or fieldwork designations is available for these purposes.

The Industrial-Organizational Psychology Option is designed for students who wish to develop marketable career skills that allow them to apply psychological principles and research methods to work-related issues. The I-O program at Sacramento State was designed with heavy influence from the 2016 Guidelines for Education and Training in Industrial-Organizational Psychology, published by the Society for Industrial and Organizational Psychology. While we cover all 24 major competency areas in the SIOP Guidelines to some degree, we give more emphasis to some than we do others—a strategy that is common and fully expected in master's programs according to the narrative of the SIOP Guidelines. In consideration of the typical jobs held by master's level I-O practitioners in general and especially in the local employment market for our students and alumni, our program gives primary emphasis to topics in human resource planning and development (e.g., job/work analysis; employee recruitment, testing, and selection; employee training; performance management) and general analytical skills (e.g., research methods; measurement; data analysis). These topics are slanted more toward the "industrial" side of the I-O field. Current literature in organizational psychology topics such as work attitudes and motivation, groups and teams, and occupational health and safety have important implications for the aforementioned human resource planning and development topics, and are covered more briefly in the coursework. In addition to completing the core courses and the culminating requirement for the MA degree, students must also select the Industrial-Organizational Psychology option.

Admission Requirements

Admission to graduate study in Psychology is selective. The Department equally weighs the candidate's overall grade point average (GPA) and scores on the Graduate Record Examination (GRE). An overall GPA of 3.0 is recommended. When making admissions decisions, the Department

takes into consideration the candidate's combined GPA and GRE score, letters of recommendation, previous (research and/or practical) experience, the candidate's interest in a particular faculty member's research agenda, and additional materials as required by each program option (ABA, General MA, and I/O).

Applicants are required to have completed upper division undergraduate psychology courses in statistics and research methods, with at least 'C' grades in those courses, as well as a balanced and academically strong group of upper division courses covering at least five different core academic areas of psychology (e.g., biological, clinical, cognitive, developmental, social). The upper division psychological research methods/statistics requirement is met by PSYC 121 and PSYC 102 taken at Sacramento State, or their equivalents at other universities. Upper division research methods/statistics courses from other four-year universities must be reviewed and approved for equivalency by the Department's Graduate Coordinator.

Please visit www.csus.edu/psyc/grad-students/graduate-program-dev.html for information on each option's additional requirements.

Admission Procedures

All applicants, including Sacramento State graduates, must apply to both the University and the Psychology Department. Please submit the following to the Sacramento State Office of Graduate Studies:

- an application for admission—via CalState Apply (https://www2.calstate.edu/apply/)
- two sets of official transcripts from all colleges and universities attended, other than Sacramento State, should be sent to:

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  Sacramento, CA 95819-6112

- Official Graduate Records Exam (GRE) scores (be aware that it takes approximately six weeks from the test date for scores to be forwarded); for more admissions information and application deadlines please visit http://www.csus.edu/gradstudies

At the same time, each applicant must file on-line with the Psychology Department:

- a completed application form;
- one set of unofficial transcripts from all colleges and universities attended, including Sacramento State transcripts;
- unofficial copies of the General GRE scores*;
- three letters of recommendation, from individuals who can evaluate the applicant's potential for successful graduate study. At least two letters from faculty are preferred. See application brochure for link—available from www.csus.edu/psyc/grad-students/graduate-program-dev.html ;
- additional materials, as required by each specific option (General MA, ABA and I/O).

*The General GRE must have been taken by the application deadline.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 34-36

Minimum Cumulative GPA: 3.0. All units must be completed with a grade of "B" or better.

The field of Industrial-Organizational Psychology (I-O Psychology) covers all aspects of psychology in the workplace, including such sub-topics as: organizational development, leadership, performance evaluation, personnel selection, test validation and development, work teams, training, and personality influences.

The Industrial-Organizational Psychology Option at Sacramento State is designed to give broad-based training in the relevant content areas as well as provide a strong methodological background. Students obtaining the Master's degree should be prepared for a career as a personnel manager, a testing specialist, a member of an I-O consulting group; they should also be prepared for further graduate work at the doctoral level. By meeting all of the requirements for the degree, students will have met the master's level educational competencies identified by the Society for Industrial and Organizational Psychology.

Students are strongly advised to keep in contact with professors in the Psychology Department for academic advising.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of 200-level courses in the graduate program with a minimum 3.0 GPA;
- selected a Thesis or Project committee;
- obtained the committee's approval of a proposal for the thesis or project (as indicated by committee members' signatures on the Department's thesis/project approval form); and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

The student will complete the Advancement to Candidacy form after planning a degree program in consultation with a Psychology advisor and members of the student's thesis/project committee. The completed form is then returned to the Office of Graduate Studies for approval.

Program Requirements

Code	Title	Units
Required Core Courses (6 Units)		
PSYC 200	Methods in Empirical Psychology	3
PSYC 202	Survey of Contemporary Statistical Methods in Psychological Research	3
Required Area Courses (18 Units)		
PSYC 204	Advanced Topics in Statistical Methods for Psychological Research	3
or PSYC 205	Measurement Methods for Psychological Research and Practice	
PSYC 206	Tests and Measurement	3
PSYC 267	Training & Employee Development	3
PSYC 269	Analysis of Work and Employee Selection	3
PSYC 216A	Current Literature and Applications in Industrial-Organizational Psychology	3

PSYC 216B	Current Literature and Applications in industrial-Organizational Psychology	3
Required Elective Course (3 Units)		
PSYC 294	Cooperative Research	3
or any 200-level course		
Culminating Experience (4-6 Units)		
PSYC 500A	Culminating Experience	4
PSYC 500B	Culminating Experience [1]	2
Total Units		31-33

[1] Students must enroll in PSYC 500B if thesis/project is not satisfactorily completed while enrolled in PSYC 500A.

Minor in Psychology

Units required for Minor: 21

Program Description

Psychology is the scientific study of human and animal behavior, cognition, and emotion. It is a broad discipline that includes both basic research and the application of research findings to everyday life.

Program Requirements

Code	Title	Units
PSYC 2	Introductory Psychology [1,2]	3
PSYC 8	Methods of Psychology [1]	3
Select two of the following:		6 - 7
PSYC 103	Perception	
PSYC 104	Learning Theories	
PSYC 106	Motivation	
PSYC 110	Cognitive Psychology	
PSYC 111	Foundations of Behavioral Neuroscience	
PSYC/BIO 115	Introduction to Neuroscience	
PSYC 116	Animal Behavior	
PSYC 117	Drugs and Behavior	
Select two of the following:		6
PSYC 100	Cross-Cultural Psychology	
PSYC 108	Organizational Psychology	
PSYC 130	Personality Theories	
PSYC 145	Social Psychology	
PSYC 148	Child Psychology	
PSYC 149	Psychology of Adolescence	
PSYC 150	Psychological Aspects of Aging	
PSYC 168	Abnormal Psychology	
Elective	Select one additional upper division Psychology course numbered 100-199	3
Total Units		21-22

[1] Must be completed with a grade of 'C-' or better.

[2] May be applied to both the Minor and General Education requirements

MS in Applied Behavior Analysis

Total units required for MS: 42

Program Description

Applied behavior analysis (ABA) is the field of Psychology concerned with understanding the environmental variables that reliably influence human behavior, as well as developing procedures to modify socially significant behavior. The Master of Science program in ABA prepares students to work as behavior analysts in a variety of settings including schools, hospitals, neurorehabilitation settings, and agencies providing services to individuals with developmental disabilities. The ABA option coursework should fulfill the most recent requirements to sit for the national certification exam in behavior analysis (BCBA). For more information visit www.bacb.com. Students should note that this program is also appropriate for those planning to enter doctoral programs in Applied Behavior Analysis, Experimental Analysis of Behavior, or Special Education. Advisors play an active role in the planning process, and students are strongly encouraged to consult with faculty on a continual and intensive basis as soon as they begin their studies in the program. The Graduate Brochure contains the department application procedures, including GRE requirements and the departmental application form.

Although the program is based on a core set of requirements, the structure of the program allows for flexibility. While much material is covered in regular course offerings, the Psychology Department recognizes that specialized study and the development of certain types of skills must take place on a one-to-one student instructor basis. This includes research activities in the laboratory, field, or library; teaching activities; and practicum experience in community settings. Academic credit under individualized study or fieldwork designations is available for these purposes. Our research facilities include human and animal (rats) operant laboratories and research rooms for data collection with children and adults. We have also established research partnerships with different schools and agencies in the region. Finally, clinical training is also an integral part of our program. There are numerous funded internships and job opportunities for behavior analysis students in Sacramento.

Admission Requirements

Admission to the MS in Applied Behavior Analysis (ABA) is selective. The Department equally weighs the candidate's overall grade point average (GPA) and scores on the Graduate Record Examination (GRE). An overall GPA of 3.0 is recommended. When making admissions decisions, the Department takes into consideration the candidate's combined GPA and GRE score, letters of recommendation, previous (research and/or practical) experience, the candidate's interest in a particular faculty member's research agenda, and additional materials.

Applicants are required to have a Bachelor's degree in psychology or a related field (i.e., child development, speech pathology, education), a lower division undergraduate psychology course in research methods, and an upper division undergraduate course in applied behavior analysis, with at least 'C' grades in those courses. The lower division research methods requirement is met by PSYC 8 and the upper division applied behavior analysis requirement is met by PSYC 171 taken at Sacramento State, or their equivalents at other colleges and universities. Course equivalents must be reviewed and approved by the Department's Graduate Coordinator.

Please visit the Department of Psychology (http://catalog.csus.edu/colleges/social-sciences-interdisciplinary-studies/psychology/ms-in-

applied-behavior-analysis/www.csus.edu/psyc/grad-students/graduate-program-dev.html) for information on additional requirements.

Admission Procedures

All applicants, including Sacramento State graduates, must apply to both the University and the Psychology Department. Please submit the following to the Sacramento State Office of Graduate Studies:

- an application for admission—via CalState Apply (https://www2.calstate.edu/apply/)
- two sets of official transcripts from all colleges and universities attended, other than Sacramento State, should be sent to

California State University, Sacramento

Office of Graduate Studies River Front Center 215

6000 J Street

Sacramento, CA 95819-6112

For more admissions information and application deadlines please visit the Office of Graduate Studies website (http://www.csus.edu/gradstudies/).

At the same time, each applicant must file on-line with the Psychology Department:

- a completed application;
- one set of unofficial transcripts from all colleges and universities attended, including Sacramento State transcripts;
- unofficial copies of the General GRE scores*;
- three letters of recommendation, from individuals who can evaluate the applicant's potential for successful graduate study. At least two letters from faculty are preferred. See application brochure—available from www.csus.edu/psyc/grad-students/graduate-program-dev.html — for any additional required materials.

*The General GRE must have been taken by the application deadline.

Minimum Units and Grade Requirements

Units required for the MS: 42, each with a grade of 'B' or better.

Minimum required GPA: 3.0.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission reequirements;
- completed at least 12 units of 200-level courses in the graduate program with a minimum 3.0 GPA;
- selected a Thesis or Project committee;
- obtained the committee's approval of a proposal for the thesis or project (as indicated by committee members' signatures on the Department's thesis/project approval form); and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento, or secured approval for a WPG waiver.

The student will complete the Advancement to Candidacy form after planning a degree program in consultation with a Psychology advisor and members of the student's thesis/project committee. The completed form is then returned to the Office of Graduate Studies for approval.

Culminating Experience Requirements

Students must enroll once for four units of PSYC 500A, which may be satisfied by completing an empirical thesis. Each student will compile an APA-style manuscript, including introduction, method, results, and discussion sections, at the conclusion of the thesis. Students must also successfully pass an oral defense of the thesis.

If the thesis or project is not completed by the end of the first semester in which a student is registered for culminating requirement units, they must enroll for two units of PSYC 500B during the following semester. If the thesis is still not completed by the end of that semester, students must enroll in the university designated thesis/project continuation course.

Program Requirements

Code	Title	Units
Required Core Course (3 Units)		
PSYC 200	Methods in Empirical Psychology	3
Required Area Courses (27 Units)		
PSYC 291	Professional Issues in Behavior Analysis	3
PSYC 271	Advanced Applied Behavior Analysis	4
PSYC 272	Research Methods in Behavior Analysis	3
PSYC 274	Theoretical Foundations of Behavior Analysis	3
PSYC 281	Advanced Experimental Analysis of Behavior	4
PSYC 284	Assessment and Treatment of Behavior Problems	4
PSYC 242	Seminar in Learning and Behavior	3
PSYC 275	Applied Behavior Analysis in the Workplace	3
Required Experiential Learning (6 Units)		
PSYC 294	Cooperative Research	1
PSYC 297A	Advanced Graduate Research I	1
PSYC 297B	Advanced Graduate Research II	2
PSYC 299	Special Problems	2
Culminating Experience (6 Units)		
PSYC 500A	Culminating Experience	4
PSYC 500B	Culminating Experience [1]	2
Total Units		42

[1] Students must enroll in PSYC 500B if thesis/project is not satisfactorily completed while enrolled in PSYC 500A.

Public Policy and Administration

College of Social Sciences and Interdisciplinary Studies

Program Description

The graduate programs in the Department of Public Policy and Administration prepare students for a career in public service through a deeper understanding of how to address complex issues relating to public policy and administration. We serve the State of California and Sacramento Region by developing leaders possessing strong analytical tools, and a deep commitment to public service.

Note: The Department of Public Policy and Administration, in collaboration with the College of Business Administration, also offers an interdisciplinary Master's of Science in Urban Land Development. In addition, it offers an interdisciplinary doctorate in education in collaboration with the College of Education. Both of these programs are listed separately in this catalog.

Special Features

- The proximity of Sacramento State to the State Capitol offers significant advantages to students by providing them with a ready "laboratory" for observing the policy and administrative issues they will confront professionally, and for gaining experience alongside existing practitioners in public policy and administration.
- The graduate program's curricular design and scheduling of courses allow students to complete the program in four semesters if enrolled full-time. In addition, part-time students may complete the program after five or a six semesters of attendance. Classes are scheduled in the evening, and sometimes on Saturday, to accommodate the scheduling needs of students who are employed in the daytime, or who have other obligations that require non-traditional schedules.
- As a reflection of the growing interest in collaborative processes to solve public concerns, and the need for mid-level administrators in the judicial system, the PPA Department also offers certificates in Collaborative Governance and Judicial Administration (through the College of Continuing Education).

Career Possibilities

Policy analyst and/or public administrator for state, federal, or local government; private firm or association; or not-for profit organization

Contact Information

Edward L. (Ted) Lascher, Jr., Department Chair
Suzi Byrd, Administrative Support Coordinator
Tahoe Hall 3038
(916) 278-6557
www.csus.edu/college/social-sciences-interdisciplinary-studies/public-policy-administration/ (https://www.csus.edu/college/social-sciences-interdisciplinary-studies/public-policy-administration/)

Faculty

JEZ, SU JIN

LASCHER, JR., EDWARD L.

MCCLELLAN, SARA E.

VENEZIA, ANDREA

WASSMER, ROBERT W.

PPA 100. Introduction to Public Policy and Administration. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150 or equivalent.
Term Typically Offered: Fall, Spring

Explores context and process for policy making by national and California state governments, including ethical dimensions. Applications are developed from students' and instructor's areas of interest including K-12 and higher education, land-use policy, and aging issues such as elder advocacy, Social Security, and Medicaid. Provides background and skills for entry level positions in public or non-profit organizations.
Cross Listed: GERO 102; only one may be counted for credit.

PPA 200. Introduction to Public Policy and Administration. 3 Units
Term Typically Offered: Fall, Spring

Examines public policy and administration by exploring major policy processes, particularly in California state and local government. Topics include the emergence and specification of issues, developing and selecting policy options, implementing and administering policies and evaluating and terminating public policies. The course approach is comprehensive, transdisciplinary and human centered -- concerned with the interplay of values in shaping policy outcomes. The intent is to provide conceptual frameworks and operational principles required in identifying and resolving issues emerging in public settings.
Note: Satisfies the Graduate Writing Intensive Requirement (GWI).

PPA 205. Research in Public Policy and Administration. 3 Units
Term Typically Offered: Fall, Spring

Emphasizes fundamental research and management skills necessary in generating accurate and useful decision-related information for policy makers. Topics include conceptualizing and structuring research questions, collecting valid and relevant data and interpreting and presenting results. The course approach is pragmatic, transdisciplinary, and oriented to producers and users of policy research information. The intent is to enhance research skills in analyzing and resolving policy issues.

PPA 207. Quantitative Methods in Public Policy and Administration. 3 Units
Prerequisite(s): ECON 1B, PPA 205 or instructor permission.
Term Typically Offered: Fall, Spring

Study of quantitative methods as applied in public policy analysis. Concentrates on interpreting the results of econometric, statistical, and other public policy studies, and on determining the relevance and applicability of quantitative analysis with the larger scheme of public policy decision making.

PPA 210. Political Environment of Policy Making. 3 Units
Prerequisite(s): PPA 200 or instructor permission.
Term Typically Offered: Fall, Spring

Assists students in learning to identify the political factors impinging on the policy process and in learning to cope with them. With special emphasis on the California political environment and issues, employs case studies, structured role-playing, and including politically feasible policy alternatives and advice to hypothetical clients. The goal is to equip students to work effectively as politically aware policy analysts.

PPA 220A. Applied Economic Analysis I. 3 Units
Prerequisite(s): ECON 1B, or instructor permission.
Term Typically Offered: Fall, Spring

Presents the basic concepts, tools, and models of microeconomics in the context of public sector choices. The standard market demand and supply model is developed and used to analyze the effect of public policies (particularly those of California state and local governments) on consumers and businesses. The principles of welfare economics are presented and used to evaluate economic performance.
Note: Graduate Writing Intensive Course.

PPA 220B. Applied Economic Analysis II. 3 Units
Prerequisite(s): PPA 220A.
Term Typically Offered: Fall, Spring

Continuation of PPA 220A which focuses specifically on the role of government in a market-oriented economy with emphasis on market failures including: public goods, externalities, and monopoly. Corrective taxes and expenditure programs are discussed, and the technique of cost-benefit analysis is developed and applied to various state and local government projects.

PPA 230. Public Budgeting and Finance. 3 Units
Term Typically Offered: Fall, Spring

Enables students to understand, analyze, and evaluate the governmental budget process including revenue and expenditure patterns. The primary emphasis is on California state and local governments. The federal budget process is discussed primarily to reflect the impact that it has on state and local governments. Features both theoretical and practical approaches to budgets, including alternate budget formats. Various perspectives are utilized to explore the political, economic, and policy concerns inherent in the development and implementation of public sector budgets.

PPA 240A. Public Management and Administration I. 3 Units
Prerequisite(s): 1) graduate standing and 2) completion of PPA program prerequisites, or instructor permission.
Term Typically Offered: Fall, Spring

Examines concepts and approaches used in analyzing and understanding complex organizations. Organizational theory, management concepts, and behavioral analysis is employed to understand the dynamics and evolution of public sector organizations. Emphasis is placed on applying classic organizational theory and introductory leadership skills and issues.

PPA 240B. Public Management and Administration II. 3 Units
Prerequisite(s): PPA 240A.
Term Typically Offered: Fall, Spring

Continuation of PPA 240A. Examines concepts and approaches used in analyzing and understanding complex organizations. Emphasis is placed on ability to intervene and assist public agencies by designing intervention plans, engaging in strategic planning, promoting interdepartmental effectiveness, using advanced leadership issues and techniques, and using advanced organizational development strategies.

PPA 250. California Land Use Policy. 3 Units
Term Typically Offered: Fall, Spring

Examines public policies that influence land use. Reviews tools of land use planning and development and applies them to issues that dominate California policy choices including urban design, fiscalization of land use, sustained growth, and the challenges of social equity.

PPA 251. Urban Problems, Economics and Public Policy. 3 Units
Prerequisite(s): PPA 220A or ECON 100B.
Corequisite(s): ECON 251; only one of these courses may be counted for credit.
Term Typically Offered: Fall, Spring

Historical development, economics and possible policy solutions of the most pressing problems facing central cities and urban areas in the U.S. are presented. Problems discussed include poverty, crime, urban abandonment/suburban sprawl, edge cities, deteriorating infrastructures, and fiscal stress.
Cross Listed: ECON 251; only one may be counted for credit.

PPA 270. Introduction to Collaborative Policy Making. 3 Units
Prerequisite(s): PPA 200 and PPA 210, or approval of instructor.
Term Typically Offered: Fall, Spring

Examines the theory and practice of collaborative policy-making using case studies of major collaborative processes. Topics include interpretative policy analysis, deliberative democracy theory, public participation, collaborative policy networks, the use of dialogue in public policy, resolution of policy controversies, and consensus building.

PPA 272. Collaborative Governance Advanced Practice. 3 Units
Prerequisite(s): PPA 270 with a grade of B- or better, or instructor permission.
Term Typically Offered: Fall, Spring

Practice driven, highly participatory course for professionals who require more advanced skills into collaborative methods. Topics include conflict analysis and assessment, analysis of advocacy speech, public participation, working with the media, and interagency networks. Focuses on active learning with practice in a wide variety of collaborative skills.

PPA 284. Urban Policy. 3 Units
Term Typically Offered: Fall, Spring

Exploration in-depth of the socio-economic problems of urban and metropolitan areas and evaluation of proposed political and governmental solutions.
Cross Listed: GOVT 284; only one may be counted for credit.

PPA 291. Court Governance and Operations. 3 Units
Term Typically Offered: Fall, Spring

Studies the state judiciary as both independent and interdependent with the legislative and executive branches of government at both the state and local level. The goal is to develop foundational knowledge of the historical and evolving governing and operational principles of the California court system.

PPA 292. Court Management. 3 Units
Prerequisite(s): PPA 291 or instructor permission.
Term Typically Offered: Fall, Spring

Provides training in key court administrative areas identified by such organizations as the National Association of Court Management (e.g., case flow management). Drawing from interdisciplinary literature on management theory, court case studies illustrate and provide context.

PPA 293. Court Leadership. 3 Units
Term Typically Offered: Fall, Spring

Examines leadership in the court environment as distinct from management. Investigates how leadership principles are exercised in pivotal areas of the courts such as: community relations, creativity and innovation, organizational change, workforce development, succession planning, strategic planning and re-engineering.

PPA 294. Emerging Issues in Judicial Administration. 3 Units
Term Typically Offered: Fall, Spring

Addresses pressing issues in judicial administration (e.g., courts in an electronic world, rising administrative workloads, greater number of self-represented litigants). Specific topics may change from year to year depending on the urgency of topics and nature of policy implications.

PPA 296E. Intergovernmental Relations. 3 Units
Term Typically Offered: Fall, Spring

A review of the origins of federalism in the U.S. and various theoretical approaches to understanding the relationships between various levels of government, including ways in which the different levels of government relate to one another both vertically and horizontally.

PPA 296M. Policy Prototyping. 3 Units
Prerequisite(s): At least one graduate course in political science, economics, and administration or management; no more than one of which may be taken as a co-requisite.
Term Typically Offered: Spring only

Applies policy and administrative prototyping to policy topics such as transportation and mobility, environment and resources, and education, workforce, and justice. The course uses the drafting and iteration of statutes, ordinances, and regulations, budget and personnel plans, organizational designs, and vote counts, along with sketching design thinking applications, to explore innovative strategies for addressing these policy topics, with an emphasis on implementation.

PPA 297A. Executive Fellows Introductory Seminar. 3 Units
Term Typically Offered: Fall, Spring

Seminar will enhance Executive Fellows' understanding of the state policy making and administrative process, policy implementation, ethical responsibilities of policy and administrative actors.
Note: Open only to students admitted to the Executive Fellowship Program.

PPA 297B. Executive Fellows Policy Seminar. 3 Units
Prerequisite(s): PPA 297A
Term Typically Offered: Fall, Spring

Seminar will extend the examination and analysis of the Executive branch of government to include alternative administrative practices, policy implementation strategies, and related administrative issues.
Note: Open only to students admitted to the Executive Fellowship Program.

PPA 298A. Judicial Administration Fellows Introductory Seminar. 3 Units
Term Typically Offered: Fall, Spring

Critical examination and analysis of the administrative operation of the California judicial system and its structures, policies and practices.
Note: Open only to students admitted to the Judicial Administration Fellows Program.

PPA 298B. Judicial Administration Fellows Policy Seminar. 3 Units
Term Typically Offered: Fall, Spring

Analyzes procedural issues and policy questions within the California judicial system with emphasis on the interdependence of the judicial, legislative and executive branches.
Note: Open only to students admitted to the Judicial Administration Fellows Program.

PPA 299. Special Problems. 1 - 3 Units
Prerequisite(s): Permission of faculty supervisor and the Department Chair.
Term Typically Offered: Fall, Spring

Supervised independent study in public policy and administration. Credit/No Credit

PPA 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree.

Certificate in Applied Policy and Government

Units required for Certificate: 6

Program Description

The Capital Campus's graduate programs in Public Policy and Administration prepare future leaders to address the complex issues that face California. We serve the State and the region by developing leaders with strong analytical tools and a deep commitment to public service.

Admission Requirements

Acceptance to one of the four Capital Fellows Programs: Assembly, Judicial Administration, Executive, or Senate.

Program Requirements

Code	Title	Units
Required Courses		**6**
Select the two courses applicable to your program		
For Senate Fellows:		
POLS 293A	Senate Fellows Introductory Seminar	
POLS 293B	Senate Fellows Policy Seminar	
For Assembly Fellows:		
POLS 294A	Assembly Fellows Introductory Seminar	
POLS 294B	Assembly Fellows Policy Seminar	
For Executive Fellows:		
PPA 297A	Executive Fellows Introductory Seminar	
PPA 297B	Executive Fellows Policy Seminar	
For Judicial Administration Fellows:		
PPA 298A	Judicial Administration Fellows Introductory Seminar	
PPA 298B	Judicial Administration Fellows Policy Seminar	
Total Units		6

Certificate in Collaborative Governance

Units required for Certificate: 6

Program Description

The Capital Campus's graduate programs in Public Policy and Administration prepare future leaders to address the complex issues that face California. We serve the State and the region by developing leaders with strong analytical tools and a deep commitment to public service.

Admission Requirements

- Enrollment in the Sacramento State MPPA program **OR**
- Enrollment in the Sacramento State MSULD Program and completion of additional set of readings before enrollment in PPA 270

Program Requirements

Code	Title	Units
Required Courses (6 Units)		
PPA 270	Introduction to Collaborative Policy Making	3
PPA 272	Collaborative Governance Advanced Practice	3
Total Units		6

Certificate in Judicial Administration

Units required for Certificate: 12

Program Description

The Capital Campus's graduate programs in Public Policy and Administration prepare future leaders to address the complex issues that face California. We serve the State and the region by developing leaders with strong analytical tools and a deep commitment to public service.

The Certificate in Judicial Administration Program is administered by the College of Continuing Education in accordance with guidelines set by the Department of Public Policy and Administration

Admission Requirements

The Baccalaureate degree **AND** application for the Graduate Certificate in Judicial Administration as administered through the College of Continuing Education.

Program Requirements

Code	Title	Units
Required Courses (12 Units)		
PPA 291	Court Governance and Operations	3
PPA 292	Court Management	3
PPA 293	Court Leadership	3
PPA 294	Emerging Issues in Judicial Administration	3
Total Units		12

Master of Public Policy and Administration

Total units required for MPPA: 36

Program Description

The Capital Campus's graduate programs in Public Policy and Administration prepare future leaders to address the complex issues that face California. We serve the State and the region by developing leaders with strong analytical tools and a deep commitment to public service.

Graduates of our graduate programs are expected to have the ability to: 1) synthesize, analyze, and offer solutions to public policy and administration problems; 2) apply knowledge and skills in a professional setting; and 3) recognize the role of the profession in society (e.g., by considering the ethical dimension of choices about public policy and administration).

Admission Requirements

Admission to classified standing in the program requires:

- the baccalaureate degree;
- a GPA of 2.75 for all undergraduate coursework or in the last 60 units;
- results of the Graduate Record Examination (GRE) General Test; the department chair may waive this requirement for an applicant with at least five years of professional experience in the area of public policy and administration;
- completion of the following (or their equivalents at other colleges or universities as determined by the Department Chair):

Code	Title	Units
ECON 1B	Introduction to Microeconomic Analysis	3
POLS 1	Essentials Of Government	3

- a written statement of purpose from one to two pages in length (typewritten), addressing the applicant's purpose in pursuing the Master of Public Policy and Administration;
- three letters of recommendation from individuals with knowledge of the applicant's academic and professional potential.

All applicants to graduate programs who have not completed a baccalaureate degree from a postsecondary educational institution where English is the primary language of instruction must achieve a minimum score on TOEFL or IELTS. The minimum score is 83 iBT (560 Paper Based TOEFL) or 6.5 IELTS.

A student with certain deficiencies in the above requirements may be admitted to the program on a conditionally classified status. Admission conditions will be determined on an individual basis.

Admission Procedures

All prospective students must file the following with the Office of Graduate Studies:

- an online application for admission;
- one set of official transcripts from all colleges and universities attended, *other than Sacramento State*; and
- GRE scores.

For more admissions information and application deadlines please visit https://www.csus.edu/graduate-studies/.

The items below should be submitted to the Department office:

- written statement of purpose;
- letters of recommendation;
- program application; and
- TOEFL score or IELTS score, if applicable.

Minimum Units and Grade Requirement for the Degree

Units required for the MPPA: 36

Minimum Cumulative GPA: 3.0 with no grade lower than a 'B-' in all required courses (and 'credit' for PPA 500).

Advancement to Candidacy

Students must file an application for Advancement to Candidacy listing their program of graduate study. The filing procedure should begin as soon as the student has:

- removed any deficiencies in admission requirements;
- completed at least five of the program's required courses with a minimum grade of "B-" in each and a cumulative grade point average of at least 3.0; and
- Satisfy the Graduate Writing Assessment Requirement (GWAR) by completing one of our Departmental Graduate Writing Intensive (GWI) courses with a grade of 'B' or better (either PPA 200 or PPA 220A) or meeting one of the other standards set by the Office of Graduate Studies.

Department specific advancement to candidacy forms are available in the Department office.

Program Requirements

Code	Title	Units
Required Courses (27 Units)		
PPA 200	Introduction to Public Policy and Administration	3
PPA 205	Research in Public Policy and Administration	3
PPA 207	Quantitative Methods in Public Policy and Administration	3
PPA 210	Political Environment of Policy Making	3
PPA 220A	Applied Economic Analysis I	3
PPA 220B	Applied Economic Analysis II	3
PPA 230	Public Budgeting and Finance	3
PPA 240A	Public Management and Administration I	3
PPA 240B	Public Management and Administration II	3
Electives (6 Units)		
Select 6 units. Graduate level PPA elective courses include the following: [1]		6
PPA 250	California Land Use Policy	
PPA/ECON 251	Urban Problems, Economics and Public Policy	
PPA 270	Introduction to Collaborative Policy Making	
PPA 272	Collaborative Governance Advanced Practice	
PPA/POLS 284	Urban Policy	
Culminating Requirement (3 Units)		
PPA 500	Culminating Experience [2]	3
Total Units		36

[1] PPA graduate students are required to take 6 units of elective courses. Ordinarily at least 3 of these units should be chosen from among the graduate level elective courses offered by the Department of Public Policy and Administration. As appropriate, the requirement to take at least 3 units within PPA may be waived with the approval of the student's academic advisor and the Department Chair. Additionally, the Department has offered experimental PPA 296 electives in the past, and will continue to do so.

[2] Enrollment in PPA 500 is required of students in their last semester of enrollment in the program. Each student will undertake a project or thesis dealing with a policy or administrative issue and complete a significant written work detailing the problem or issue examined, sources of information used in analyzing the issue, and project findings and conclusions.

Social Science

College of Social Sciences and Interdisciplinary Studies

Program Description

The Social Science major is offered by the departments of Anthropology, Economics, Ethnic Studies, Geography, Political Science, History, and Sociology. It serves both as an interdisciplinary major for the Bachelor of Arts degree and to provide subject matter preparation for the Single Subject Teaching Credential in Social Science.

To qualify for a teaching credential, candidates must also complete an approved Professional Education Program and other requirements as specified by the California Commission on Teacher Credentialing. California faces a shortage of qualified teachers. Over the next decade we will need to find 300,000 people to take on the challenging but rewarding job of teaching in California schools.

Since the Social Science program involves work in several departments, and since special rules on overlap with General Education apply to this program, advising is essential to the efficient completion of the program.

Note: On June 1, 2006, the California Commission on Teacher Credentialing approved the program of subject matter preparation for the Single Subject Teaching credential in Social Science submitted by California State University, Sacramento.

Special Features

- The program also provides an opportunity for students to build on the foundation of general education and become familiar with several areas in the Social Sciences. A Social Science major is excellent background for advanced graduate studies and in professional careers. Non-credential students need not complete the pre-credential professional education coursework, and elective courses are available to complete the 120-unit Bachelor of Arts degree.
- As an interdisciplinary major, the Social Science program works closely with the Career Center and the California Interns Network to support internship opportunities that will enhance future professional development and employment.
- Through the Social Science major, graduates will also earn a 24 unit minor in History. Formal submission of a Minor Degree Application is required.

- Social Science majors can also earn a minor in other disciplines including Economics, Ethnic Studies, Geography, Political Science and more. Additional specialized advising is required in these cases.
- Graduates of the Social Science program have distinguished leadership careers in government service, public policy, politics, business, K-12, education, higher education administration, law, law enforcement, counseling, community service, and military service. Several Social Science majors (including two former mayors of Sacramento) are inductees into the College of Social Science and Interdisciplinary Studies Academy of Distinction and Honor.
- The Social Science program works closely with the Career Center on campus to provide proactive and comprehensive career services to students through: career development, experiential learning, on-campus recruitment, and employer relations.

Career Possibilities

Middle School or High School Teacher of Civics, Economics, Geography, and History · Politics · Government and Civil Service · Lobbyist · Attorney · Law Enforcement · Business · Public Relations · Human Relations/ Personnel Specialist · Journalist · Military Service · Community Service · Graduate School

Contact Information

Timothy Fong, Director
Lassen Hall 2008
(916) 278-6207
www.csus.edu/socsci/ (http://www.csus.edu/socsci/)

SSCI 193. Integrating History and Social Science. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Spring only

Capstone seminar that serves as a bridge between academic preparation and entry into a professional teacher credential program. Students will examine social science-history in the State curriculum framework, reflect on subject matter preparation, focus on middle and high school social science teaching and learning, investigate and evaluate resources pertinent to instruction, and explore current issues in education.

SSCI 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of instructor or Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Requires permission of instructor and department chair.
Credit/No Credit

BA in Social Science

Units required for Major: 60
Units required for Subject Matter Program: 69-74
Total units required for BA: 120

Program Description

The Social Science major is offered by the departments of Anthropology, Economics, Ethnic Studies, Geography, Government, History, and Sociology. It serves both as an interdisciplinary major for the Bachelor of Arts degree and to provide subject matter preparation for the Single Subject Teaching Credential in Social Science.

Minimum Grade Requirement

Minimum grade of 'C-' is required in all courses completed toward the Social Science major and pre-credential requirements.

Program Requirements

Code	Title	Units
Core Requirements (45 Units)		
ECON 1A	Introduction to Macroeconomic Analysis [1]	3
ECON 1B	Introduction to Microeconomic Analysis [1]	3
ECON 113	Economic History of the United States	3
GEOG 100	Themes In World Geography	3
GEOG 121	United States and Canada	3
HIST 17A	United States History, 1607-1877 [1]	3
HIST 17B	United States History, 1877-Present [1]	3
HIST 50	World Civilizations, Beginnings-1600 [1]	3
HIST 51	World History from 1500 to the Present. [1]	3
HIST 100	Introduction to Historical Skills	3
HIST 133	Twentieth-Century World History	3
HIST 183B	California History, 1860-1970	3
POLS 1	Essentials Of Government [1]	3
or POLS 150	American Governments	
POLS 35	World Politics [1]	3
POLS 180	California State and Local Government [1]	3
Electives (15 Units)		
Select one of the following (National Perspective, History):		3
HIST 150	Colonial America	
HIST 151	The Age of the American Revolution	
HIST 152	Young Republic, 1790-1840	
HIST 153	Civil War and Reconstruction, 1840-1890	
HIST 154	20th Century United States, 1890-1940	
HIST 155	20th Century United States, 1941-Present	
HIST 156	The Sixties: Years of Hope, Days of Rage	
HIST 157	History of International Relations in the 20th Century	
HIST 159	History of US Foreign Relations [1]	
HIST 160	The United States in Vietnam, 1940-1975	
HIST 162	Social History of the United States [1]	
HIST 163	The City in US History [1]	
HIST 167	History of American Women [1]	
HIST/HRS 168	Images Of America [1]	
HIST 173	The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present [1]	
HIST 177	The African-American Experience, 1603-Present [1]	
HIST 178	Mexican-American History	
Select one of the following (National Perspective, other Social Sciences):		3
ANTH 101	Cultural Diversity [1]	
ANTH 135	Indians of North America	
ECON 152	Economics of Education	
ECON 181	Economics of Racism [1]	

ECON 184	Women and the Economy	
ECON 189	Economics at the Movies	
ETHN 100	Ethnic America [1]	
ETHN 131	La Raza Studies [1]	
ETHN 140	Native American Experience [1]	
ETHN 170	Pan African Studies [1]	
POLS 112	Current Political Thought	
POLS 153	The American Presidency	
POLS 155	The Legislative Process	
POLS 165	Politics of the Underrepresented [1]	
SOC 120	Ethnic and Race Relations [1]	
SOC 125	Social Inequalities	
SOC 135	Sociology of Popular Culture [1]	
Select one of the following (World Perspectives, History):		3
HIST 109	History of Modern Greece [1]	
HIST 103	Mediterranean Europe: From the Renaissance to the European Union	
HIST 117	Europe, 1815-1914	
HIST 118A	World War I: Causes, Conduct, Consequences	
HIST 118B	World War II: Causes, Conduct, Consequences	
HIST 119	Europe Since 1945	
HIST 122B	History of Women in Western Civilization, Renaissance-Present [1]	
HIST 125	Modern Germany, 1806-Present	
HIST 128C	British History, 1714-Present	
HIST 129C	Twentieth Century Russia	
HIST 130	The Fall Of Communism	
HIST 135A	History Of Mexico To 1910	
HIST 135B	Revolutionary and Modern Mexico	
HIST 138A	Colonial Latin America [1]	
HIST 138B	Modern and Contemporary Latin America [1]	
HIST 141	History of Africa Since 1800	
HIST 142	History of Women in Africa	
HIST 143B	The Modern Middle East	
HIST 146B	Modern Japan, 1800-present	
HIST 148B	China, 1600 to Present	
Select one of the following (World Perspectives, other Social Sciences):		3
ANTH 102	The Nature of Culture [1]	
ANTH 121	Archaeology of Mexico [1]	
ANTH 143	Culture and Society in Mexico [1]	
ANTH 145	Peoples and Cultures of Latin America	
ANTH 149	Cultures of South Asia	
ECON 112	European Economic History [1]	
ECON 190	International Trade	
ECON 192	International Finance	
ECON 193	Development Economics	
GEOG 127	Geography Of Africa	
GEOG 128	Geography Of Europe	
GEOG 145	Population Geography [1]	
POLS 130	International Politics	
POLS 142	Government and Politics in Africa [1]	
POLS 144	European Politics	
POLS 147	Latin American Government and Politics [1]	
POLS 148	Governments and Politics in the Middle East [1]	
SOC 160	Asian Societies [1]	
SOC 162	Middle Eastern Societies and Culture [1]	
SOC 164	Sociology of Globalization [1]	
Select one of the following (State Perspective):		3
ANTH 128	Indians of California	
ECON 114	The California Economy	
ETHN 110	The Asian American Experience [1]	
ETHN 130	Chicano/Mexican-American Experience [1]	
GEOG 131	California	
HIST 185	California Indian History	
SOC 118	Chicano Community [1]	
Total Units		60

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] In addition to the core curriculum for the major, the courses listed are required for students completing the Subject Matter Program in Social Science as preparation for a Single Subject Teaching Credential.

Subject Matter Program (Social Science) (9 units)

In addition to the Program Requirements listed above, students wishing to complete the Subject Matter Program in Social Science will need to complete the following courses.

Code	Title	Units
EDUC 170	Bilingual Education: Introduction to Educating English Learners	3
SSCI 193	Integrating History and Social Science	3
Select one the following (ethical perspective):		3
PHIL 2	Ethics	
HRS 4	Exploring World Religions	
PHIL 100	Ethics and Personal Values	
PHIL 101	Ethics and Social Issues	
Total Units		9

Additional Pre-requisite Requirements (5 units)

For students planning to earn their Teaching Credential through Sacramento State, the following teaching credential pre-requisite courses are recommended prior to completing their Bachelor's Degree. These courses are taken in addition to the Program Requirements listed in the sections above.

Code	Title	Units
EDUC 100A	Educating Students with Disabilities in Inclusive Settings	2
EDUC 100B	Educating Students with Disabilities in Inclusive Settings Lab	1
PUBH 136	School Health Education	2
Total Units		5

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking		3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (6 Units)		
C1 - Arts [2]		0
C2 - Humanities [2]		0
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society		
Area D Course [2]		0
Area D Course [2]		0
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		31

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. History [2]		0
American Institutions: U.S. Constitution & CA Government [2]		0
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (9 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE) [2]		0
Foreign Language Proficiency Requirement [3]		6

1. To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).
2. Required in Major; also satisfies Graduation Requirement.
3. If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Sociology

College of Social Sciences and Interdisciplinary Studies

Program Description

Sociology is the group-level analysis of social lives of people, groups, and societies. A sociological perspective helps students understand the relationship between individuals and society, appreciate the meaning about the social world, and become aware of ways to achieve desired collective ends.

Sociology faculty have expertise in the following areas: family and marriage, gender study, social psychology, migration and immigration, ethnic and race relations, inequalities, human sexuality, environment, sports, popular culture, political sociology, medical sociology, sociology of education, and crime and deviance.

Sociology graduates are hired by community-based organizations, government agencies, hospital and healthcare organizations, social services departments, the criminal justice system, school systems, private businesses, and research firms.

Degree Programs

Minor in Sociology (p. 1091)

BA in Sociology (p. 1089)

MA in Sociology (p. 1090)

Special Features

- Sociology students are encouraged to become involved in the internship program. Though it is not mandatory, internships provide an excellent way to explore the real world of sociology outside of the classroom.
- The Sociology Club's mission is to promote the professional, intellectual, and personal growth of our student members. Alpha Kappa Delta (AKD) is an international honor society for Sociology majors.
- Majors learn statistical analysis of social data, computer processing of data and the SPSS computer program. Students are encouraged to learn several computer languages and the use of census data for social and regional planning. Student research projects may be selected for presentation in programs throughout the state.

- Thematic areas of studies include ethnic and race relation, immigration, crime and deviance, social inequality, socialization and interaction, globalization, and social change.

Career Possibilities

Public Health Statistician · Demographer · Recreational Specialist · Social Worker · Urban Planner · Correctional Counselor · Youth Counselor · Criminologist · Social Ecologist · Public Relations Consultant · Interviewer/Researcher · Statistician · Population Analyst · Public Opinion Analyst · Migration Specialist · Parole/Probation Officer · Employment Counselor · Teacher · Writer/Journalist · Management Analyst · Budget Analyst · Government Research Analyst

Contact Information

Todd Migliaccio, Department Chair
Amador Hall 450A
(916) 278-6522
FAX (916) 278-6281
www.csus.edu/soc (http://www.csus.edu/soc/)

Faculty

AL-QAZZAZ, AYAD SAYID

BARAJAS, MANUEL

BERG, ELLEN

BROOKS, JACQUELINE D.

BURKE, PAUL

CARRIGAN, JACKIE A.

IDA, AYA KIMURA

LIU, QIAOMING AMY

LUNA-GORDINIER, ANNE

MIGLIACCIO, TODD

MORRIS, PATRICIA

SARABIA, HEIDY

SHIGIHARA, AMANDA

VARANO, CHARLES S.

WEHR, KEVIN

WELKLEY, DEBRA

WU, BOHSIU

SOC 1. Principles of Sociology. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to the field of sociology; its basic concepts and principles; the analysis and explanation of culture, personality, social institutions, social change, population, social processes and collective behavior.

SOC 3. Social Problems. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to major social problems in the U.S., with an emphasis on systemic problems, such as economic, racism and sexism. Problems in major social institutions such as the family, social services, criminal justice and the environment are also addressed.

SOC 5. Exploring Issues Facing Contemporary Families. 3 Units
Term Typically Offered: Fall, Spring

An exploration of social issues that contemporary families face every day with an integration of the life course perspective and sociopsychological viewpoint. Issues covered may include varying family constellations, mate selection, intimacy, communication, adjustment, cohesion, attachment, aging, foster care and adoption, gender, race/ethnic/cultural influences, social stratification, family/partner violence, health, and social policy.

SOC 8. Sense and Nonsense in Social Issues and Research. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Introduces basic steps in the research process and/or basic steps in critically evaluating discussions on social issues. Students are taught to recognize common errors through the analysis of non-technical applied research and/or through newspapers and sociological articles about social issues and problems. Emphasizes the logical steps involved in thinking critically about social research and/or social problems such as quality of operational definitions, weaknesses in research design, sampling errors, value assumptions, logical consistency between premises and conclusions, and the structure of arguments.

SOC 10. Issues in Crime and Social Control. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduces the concepts utilized by sociologists in the analysis of controversial issues in crime and social control, e.g., norms, roles, subcultures, labeling, social conflict, social stratification, racism, sexism, etc. Particular attention is paid to sources of data and trends over time. Issues covered include, but are not limited to: capital punishment, drugs and drug policy, domestic violence, abortion, driving under the influence, police use of deadly force, private prisons and juvenile justice reform.

SOC 101. Introduction to Statistics for Sociologists. 4 Units
Prerequisite(s): Sociology majors only
Term Typically Offered: Fall, Spring, Summer

Provides students with an overall view of the role and techniques of statistics in the presentation and interpretation of social science data. Lectures emphasize descriptive statistics: measures of central tendency and variability, and association and correlation. Introduction is given to statistical inference: sampling distributions, hypothesis-testing, and estimation. Lab sessions provide demonstrations and training in the practical application of concepts and techniques dealt with in lectures. Students learn to use the computer as an aid in data processing and analysis.

SOC 101X. Collaborative Practice for SOC 101. 1 Unit
Corequisite(s): SOC 101.
Term Typically Offered: Fall, Spring

SOC 101X Collaborative Practice for SOC 101. Discussion, 1 hour. Students concurrently enrolled in SOC 101 work collaboratively on, and discuss, problem sets designed by the SOC 101 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student understanding and success in SOC 101.
Credit/No Credit

SOC 102. Research Methods in Sociology. 4 Units
Prerequisite(s): SOC 101; Sociology majors only
Term Typically Offered: Fall, Spring, Summer

Students will be introduced to the basic steps in research; problem definition, research design, sampling, data collection methods, and analysis. Laboratory excercises reinforce methodological processes, including finding and evaluating existing research studies, operationalizing concepts, developing questionnaires, and analyzing primary data. Students will learn how to process and analyze both qualitative and quantitative data, including analytic induction, manipulation of computerized data files, bivaraite and multivariate analysis, table construction, and preparation of written research reports. Lab exercises reinforce computer and statistical skills.

SOC 103. Advanced Sociological Analysis. 3 Units
Prerequisite(s): SOC 101 and SOC 102
Term Typically Offered: Fall, Spring

An advanced course in research design and analysis. Introduces students to advanced data analysis techniques and how to use them to investigate social problems and issues. Students will build on the knowledge they have accumulated in previous courses in sociological research methods and theory to design and complete a research project. Specific methodological strategies taught will vary, and could include regression analysis, ethnography, comparative-historical methods, qualitative interviewing, evaluation research and longitudinal survey analysis.
Note: May be repeated for credit

SOC 106. Births, Deaths and Borders. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Studies population including growth and decline, fertility and mortality trends, migration, human ecology, and the interrelationship of population and socioeconomic change.

SOC 110. Urban Life and Problems. 3 Units
Term Typically Offered: Fall, Spring

Takes a political economic approach to urban development, with special emphasis on the roles played by various social groups and institutions. Particular attention is given to the effects of urban growth, oppositional movements to growth and the global developments that affect urban conditions.

SOC 118. Chicano Community. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Analyzes the institutions, norms, values, and traditions of the Chicano community. Included is an examination of the Chicano community's progress in mainstream American life with attention to the effect of ethnocentrism, racism and class.

SOC 120. Ethnic and Race Relations. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Analyzes relations among various racial, religious, nationality, and gender groups as they interact with racism, ethnocentrism and class in the U.S. and the world.

SOC 122. Immigration Studies. 3 Units
Term Typically Offered: Fall, Spring

Examines the social phenomena of labor migration, immigration, and transnationalism, and places their origins and development in the context of political-economic national inequalities. Advances an understanding of why societies experience migration, immigration, and transnationalism, and evaluates competing and complementary theoretical frameworks explaining these migratory processes, particularly as they relate to the U.S. Special attention will be given to race, gender, and class relations as impacted by labor migration processes.

SOC 123. Black Studies in Sociology. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to the sociological analysis of Black American life in the U.S. -- the complex phenomena of Black issues, emerging theories of race, and the cumulative scholarship on black identity, experience, socio-economic status, and social organization.. Focus is on the original contributions of social scientists to Black Studies in Sociology.

SOC 124. Social Justice in Interdisciplinary Perspective. 3 Units
Prerequisite(s): Sophomore standing or instructor permission.
Term Typically Offered: Fall, Spring

Examines the nature and forms of social justice and injustice. Key philosophical and theoretical models and debates over the meaning of social justice, using historical and contemporary examples to highlight important concepts and controversies are addressed. Faculty from different departments within SSIS, and occasionally from other colleges, will address how their discipline understands and analyzes issues of social justice. Students will be encouraged to critically assess the assumptions of various perspectives on social justice, and to address the relationship of academe and social activism in achieving social justice. Cross listed as ANTH 130, ID 124, ENVS 124, ETHN 124 and FACS 124. Only one may be counted for credit.

SOC 125. Social Inequalities. 3 Units
Prerequisite(s): SOC 1 or equivalent.
Term Typically Offered: Fall, Spring

Examination of the ways race, class and gender, as well as the intersection of all three, affect the distribution of valued resources in a society. Other social inequalities such as age, sexual orientation, or nationality, etc. may also be examined. Attention is given to struggles to change or preserve economic and political inequalities.

SOC 126. Sociology of Gender. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines how gender designation of 'male' and 'female' impacts an individual's life; explores the social construction of masculinity and femininity in the family, school, workplace, everyday interactions, and within racialized and colonized societies; studies the consequences of gender difference and inequality that result in violence and abuse, sexual harassment, hate crimes, wage differentials and unequal opportunities.

SOC 127. Men, Masculinity and Society. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduces students to the field of men and masculinity. Examines the construction of masculinity in sports, family, work and other social relationships, showing how it affects and is affected by people, institutions and society. Explores the diverse experiences based on race, class, occupation, physical ability and sexuality, and the implications for people from such diverse groups.

SOC 128. Sociology Of Sexuality. 3 Units
Prerequisite(s): SOC 1 or instructor permission.
Term Typically Offered: Fall, Spring

Studies sexuality including historical and cultural differences in sexual attitudes, beliefs and behaviors. Also examines the mutual influence of sexuality and social institutions, such as the family, the economy, politics and religion.

SOC 130. Political Sociology. 3 Units
Prerequisite(s): SOC 1 or equivalent.
Term Typically Offered: Fall, Spring

Analyzes political order and change from the viewpoint of cultural values and the institutional structure of societies. Examines group behavior patterns related to ideology, elites, masses, classes, movements, parties, and other power groups. Surveys differing theories and methodologies for the study of political processes across cultures and societies.

SOC 133. Sport in a Global Perspective. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Examines sport in a global context, focusing on the dynamic nature of sports in response to changes in society. Addresses the effect sport has on both the society and the individual, from socialization to nationalism. Focuses on both participants (youth, amateurs, professionals) and spectators (parents, fans, etc.) at all levels of involvement, from community to international competition. Highlights cross-cultural differences in the relationships between sport and other social institutions such as government, corporations, and the media.

SOC 134. Sociology of Film. 3 Units
Term Typically Offered: Fall, Spring

Introduces the 'Sociological Imagination' by linking the personal histories found in films to larger social structures. The evolution of important contemporary global and domestic social issues is discussed by analyzing the sociological content of major motion pictures. The socio-historical development of the American film industry is also examined to explore its ideological role in challenging and perpetuating various forms of class, race, and gender discrimination.

SOC 135. Sociology of Popular Culture. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Analyzes social processes that produce popular culture by contrasting interrelationships between institutional power structures and collective behavior. Examines theories of popular culture, mass movements, and individualism; social change, cultural hegemony, sub-cultures, and organizational studies.

SOC 136. Social Movements. 3 Units
Prerequisite(s): SOC 1 or instructor permission.
Term Typically Offered: Fall, Spring

Analyzes old and new social movements -- pre-political and political, cultural and identity types -- class, labor, feminist, ethnic, environmental, left and right. Challenges by movements to institutional order. Surveys differing theories and methodologies for the study of movements and degree of change (reform, revolutionary) across cultures and societies.

SOC 137. Sociology of Science. 3 Units
Term Typically Offered: Fall, Spring

Examines paradigm changes of science in society and how views of science and technology are socially constructed. Analyzes the representations of scientists, scientific inquiry, and technological innovation. Explores the ways in which science has driven social change, and vice-versa.

SOC 138. Environmental Sociology. 3 Units
Term Typically Offered: Fall, Spring

Studies human society, the natural environment, and their mutual interactions. Examines environmental sociology at several levels, from the micro level of individual communities to the meso level of government policies to macro theoretical considerations. Analysis of environmental issues in a global context also included.

SOC 139. Animals in Society. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines social relationships between humans and animals as pets, companions, workers, entertainers, and food. Analyzes the representations of animals. Studies our relationships with animals both on the level of social groups and as individuals. Applies sociological approaches to the study of human-animal relationships, including the social movements around animal rights.

SOC 140. Sociology of Education. 3 Units
Prerequisite(s): SOC 1 or equivalent.
Term Typically Offered: Fall, Spring

Examines the organization and functions of educational institutions; the rise of mass education and changes in educational systems to the present; the role of teachers, parents, and schools in education; the impact of gender, race, and class on educational outcomes and processes.

SOC 144. Sociology of Health and Illness. 3 Units
Prerequisite(s): SOC 1 or instructor permission.
Term Typically Offered: Fall, Spring

Examines the social contexts of health, illness, and medical care. Emphasizes the debates and contrasting perspectives that characterize the sociological study of health and illness. Topics include the social, global, environmental, and occupational factors influencing health and illness; the politics surrounding physical and mental illness; the patient's perspective on illness; ethical issues in medicine as they relate to medical technology; and health care reform. The influence of health status on identity and interaction will also be addressed.

SOC 146. Sociology of Aging. 3 Units
Term Typically Offered: Fall, Spring

Analyzes the process of aging in the context of social structure and processes. Specifically, it deals with such issues as the age structure of society, social values and norms that define the aged, social stratification and aging, social institutions and the aged, theoretical and methodological issues in social gerontology.

SOC 150. Social Psychology. 3 Units
Term Typically Offered: Fall, Spring

Examines major principles governing face to face interaction and their application in understanding the student's own experience: creating and preserving meaning, 'realities' and selves through dramaturgy, negotiation and power; the relationship between status and intimacy; the impact of status resources (such as race and gender) on the status assignment process; the self concept; the role of emotions in social life.

SOC 155. Criminology. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines social dimensions -- causes and characteristics -- of adult crime and deviant behavior in American society. Makes some international comparisons. Police, courts and prisons are examined. Special attention is given to current issues in crime and deviance.

SOC 156. Delinquency. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines social determinants of juvenile delinquency, including family, urban conditions, social-psychological and sociological factors. Analyzes the juvenile justice system, including law enforcement, the courts and community treatment programs.

SOC 157. Issues in Courts and Prisons. 3 Units
Term Typically Offered: Fall, Spring

Sociologically analyzes American courts and prisons from prosecutorial intake through sentencing and incarceration. Emphasis is on the role of social factors (in particular race, class and gender) in decision-making practices at each stage of processing. Topics will include, but are not limited to: preventive detention, prosecutorial intake, plea-bargaining, jury selection, pre-sentence investigation reports, sentencing, and legal reconstruction of the American prison in the modern era.

SOC 158. Sociology of Deviance. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduces students to the history of attempts to define and explain deviant behavior; explains social conditions and processes associated with careers of deviants; examines relationship of deviance to problems of social control.

SOC 160. Asian Societies. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Cross-cultural study focuses on Japanese and Chinese societies and cultures and their influences on other Asian developments. Emphasizes their distinctive institutions, norms, values, and traditions in relation to contemporary social, economic, and political processes.

SOC 162. Middle Eastern Societies and Culture. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Discusses the fundamental aspects of Middle East Societies covering such topics as population, family, women, patterns of living, social stratification, education, economic development, politics and armies in the Middle East.

SOC 163. Conflict, Oil and Development in the Middle East. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines in detail the major sources of conflict in the Middle East with special reference to the Arab-Israeli conflict, the arms buildup in the Arabian-Persian Gulf, energy crisis and the multi-national aspect of Middle East oil. Attempts to discuss the impact of these conflicts on the processes of social and economic development.

SOC 164. Sociology of Globalization. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines globalization and its effect on local societies, including the impact of globalization on local labor and work practices, the social organization of local firms and business enterprises, local social structures such as gender, class, race/ethnicity, and local social patterns such as consumption and leisure activities.

SOC 166. The Family. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to the sociology of the family including an examination of the family in various cultures with the emphasis on the American family in all its many forms.

SOC 168. Self and Society. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Examines the relationship between the individual and society: social interaction, human development, behavior in groups and collectivities, personality and social structure. Theories and empirical studies.

SOC 169. Changing American Family. 3 Units
Term Typically Offered: Spring only

Analyzes the American family, past, present, and future, focusing on explanation and consequences of changes in child-bearing, courtship, marriage, and the interrelationships between the individual and the family and society. Focuses on connecting course material to real world organizations and programs in the community that are associated with or linked to families. Per week: lecture two hours; fieldwork in the community two to three hours.

SOC 170. Sociology of Children and Adolescents. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to the sociology of childhood and adolescence, focusing on theoretical foundations, methodological challenges, and empirical examination of youth from preschool through high school. Focuses on peer relations within wider contexts shaped by gender, race, and social class.

SOC 171. Sociology of Religion. 3 Units
Term Typically Offered: Fall, Spring

Acquaints students with the sociological foundations of religion in society. Emphasis is on the history, development and overall structure of the institution of religion, its relation to social, ethnic and class-based groups and its effect on society in general, and how its social development in America differs from other cultures.

SOC 175. Work and Occupations. 3 Units
Term Typically Offered: Fall, Spring

Examines the social organization of work and economic organization; the rise of industrial society and changes in workplace relations to the present; the role of technology and ideology in the workplace; industrial reforms and alternative forms of economic organization.

SOC 176. Labor and the American Social Structure. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Introduction to the study of labor in the U.S., including the nature of work, characteristics of the work force, and an overview of contemporary labor and industrial relations systems within the framework of current U.S. economic and political developments.
Cross Listed: LBRS 100; only one may be counted for credit.

SOC 185. Bullying as a Social Experience. 3 Units
Term Typically Offered: Fall, Spring

This course educates students on bullying as a social experience, introducing how social forces, environment and context impact the culture of bullying. Students will develop an understanding about how programs and policies impact bullying rates based on social theoretical perspective. Students will gain a better understanding of how research is related to intervention and prevention practices. Then, from a whole school approach, using the resources available to the school, students will implement different components of an anti-bullying program at a school site.

SOC 190. Sociology of Small Groups. 3 Units
Prerequisite(s): SOC 1 or equivalent.
Term Typically Offered: Fall, Spring

Examines social structure and social determinants of behavior in small groups; socialization, social control, social change, leadership, social ranking, social conflict and morale.

SOC 192. Sociological Theory. 3 Units
Prerequisite(s): SOC 1.
Term Typically Offered: Fall, Spring

Surveys the history of sociological theory from Comte to the present.

SOC 193A. Mentoring in Sociology. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Provides opportunity for freshman, sophomores, and juniors majoring in sociology to be mentored for improved student success and retention. Students receive peer mentoring to facilitate closer integration into campus community through participation in events, organizations, and conferences sponsored by the sociology department. Students learn how to build productive relationships with professors and receive timely advising for better retention and success rates. Course does not count toward sociology major but toward degree requirements.
Note: May be repeated twice for credit; Three times with exception as determined by the instructor.

Credit/No Credit

SOC 193B. Peer Mentoring in Sociology. 2 Units
Prerequisite(s): One year of residency at Sac State; 2.8 GPA required; Open only to Sociology majors.
Term Typically Offered: Fall, Spring

Provides opportunities for junior and senior sociology majors to mentor and gain practical out-of-class experience. Students learn the principles of mentoring and contribute to student retention and success and close the retention gap. Course provides practical orientation and guidance for the best practices in mentoring that contribute to a positive campus culture.
Note: May be repeated twice for credit; Three times with exception to be determined by the instructor.

Credit/No Credit

SOC 194. Special Topics in Sociology. 3 Units
Prerequisite(s): SOC 1 or instructor permission.
Term Typically Offered: Fall, Spring

Examines contemporary issues and social developments within the research specialization of department faculty. Provides a forum to discuss and evaluate controversies and advancements in the discipline of sociology, including theory and methodology.

SOC 195. Internship and Fieldwork. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised internship and fieldwork experience in a variety of settings: (1) public or private agencies in the Sacramento community, and (2) ethnic and/or minority communities. Supervision is provided by authorized persons in the field and collaborative supervision is provided by sociology faculty at Sacramento State. Limitations: sociology majors electing a concentration may count a maximum of 3 units in 195 and/or 199 toward the major. Those taking the general sociology pattern may count up to 6 units of 195 and/or 199 toward the major. Sociology minors may take up to 3 units. (See SOC 199 below.)
Credit/No Credit

SOC 198. Linking Statistics Education and Practice. 1 - 2 Units
Prerequisite(s): SOC 101 and instructor permission
Term Typically Offered: Fall, Spring

Advanced exploration of the scholarship of learning as applied to sociological methods and/or data analysis. Students will work independently on an applied semester project, but will also attend agreed upon number of computer lab hours each week and engage in course activities with a focus on how to best structure learning opportunities and apply content.
Note: Admission requires approval of professor and Department Chair. No more than 3 units from SOC 195, SOC 198, or SOC 199 combined may be applied to the Sociology upper division major requirement.

SOC 199. Individual Study Projects. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading; open only to students who appear competent to carry on individual work. Admission requires approval of the sponsor of the project and the Department Chair. Limitations: sociology majors electing a concentration may count a maximum of 3 units in 195 and/or 199 toward the major. Those taking the general sociology pattern may count up to 6 units of 195 and/or 199 toward the major. Sociology minors may take up to 3 units. (See SOC 195 above.)
Credit/No Credit

SOC 200. Orientation and Writing for Sociological Graduate Studies. ✎ 3 Units
Prerequisite(s): Admission to MA in Sociology program.
Term Typically Offered: Fall only

This course introduces students to our graduate program and provides students with insights into how the profession works. Students will learn about campus and departmental resources that will aid them in their studies. This class fulfills the requirements for the required Graduate Writing Intensive Course and will train students in the skills needed for successfully writing sociological papers at a graduate level. Students will also be introduced to department faculty who will share their research interests and writing strategies.

SOC 200A. Orientation to Graduate Studies in Sociology. 1 Unit
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Describes our graduate program, clearly explains our requirements and standards for successful completion of the M.A., shows students how the profession works and how to work in the profession (public submissions, conference presentations, job searches), and explains how to get through the program in a timely manner with a strong thesis. We will discuss Ph.D. programs and the application process, job opportunities and the role of professional sociologists outside academe.

SOC 200B. Thesis Prospectus/Project Preparation Seminar. 2 Units
Prerequisite(s): Completion of a minimum of 6 hours of graduate study. Completion of (or concurrent enrollment in) SOC 214 is recommended.
Term Typically Offered: Fall, Spring

Provides students with faculty and peer support for the process of developing a draft of a thesis prospectus or project proposal. This includes the clarification of expectations, familiarization with research resources, and support provided through feedback in a structured environment.
Credit/No Credit

SOC 210. Urban Sociology. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Critically examines major theories, research, and debates in the field of urban sociology, including social ecology, Marxist, subcultural, and postmodernist perspectives. Course materials will be framed within two main themes; the dynamics of cooperation and conflict under urban conditions, and the tension between private interests and public life in urban settings. Methodological emphasis will be on case studies, ethnographic, and social historical analysis.

SOC 214. Research Methods. ✎ 3 Units
Term Typically Offered: Fall, Spring

Deals specifically with such issues as the role of research within the discipline, the ethics of conducting research, the rationale behind field and survey methods, the validity and reliability of data collected through these methods and alternative approaches to data collection.
Note: Open to classified graduate students in sociology, all others by instructor permission only; Graduate Writing Intensive

SOC 215. Data Analysis. 3 Units
Prerequisite(s): SOC 101 or equivalent, or instructor permission.
Term Typically Offered: Fall, Spring

Introduces techniques used to analyze sociological data. Emphasis will be placed on the basic concepts of quantitative models used to explore causality, along with an introduction to software to carry out multivariate analysis. Qualitative analytical techniques and software will also be introduced.

SOC 220. Seminar: Social Change. 3 Units
Prerequisite(s): Classified graduate status in sociology; all others by instructor permission only.
Term Typically Offered: Fall, Spring

Course deals with main theoretical orientations in sociology representing radical, liberal and conservative viewpoints on social change. Examines the historical context of events that affected Western countries such as the Industrial Revolution, French Revolution, and the emergence of nationalism and human rights. Course approach is theoretical, historical and global.

SOC 225. Social Stratification. 3 Units
Prerequisite(s): Classified graduate status in sociology; all others by instructor permission only.
Term Typically Offered: Fall, Spring

Analyzes contemporary issues in stratification literature including class, status, power, sex/gender, identity, ethnicity, mobility, equality/inequality. Discusses differing theories, methodologies, and controversies according to student interests.

SOC 226. Sociology of Gender. 3 Units
Term Typically Offered: Fall, Spring

Intended to introduce graduate students to diverse theories that explain gender relations in contemporary society. Provides a critical perspective on how we construct men's and women's identities and how the consequences of such a construction affect institutions, culture and society. Broken up in four sections: origins of gender inequality and issues surrounding research, theoretical perspectives, marginalized groups, and gendered issues in society.

SOC 230. Seminar: Social Organization. 3 Units
Prerequisite(s): Classified graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Analyzes and critiques institutional structure. Studies shared understanding in groups, corporations, communities, institutions or societies and their hierarchical order.

SOC 235. Social Psychology. 3 Units
Prerequisite(s): Open to classified graduate students in sociology, all others by instructor permission only.
Term Typically Offered: Fall, Spring

Examines advanced social psychology. Focuses on symbolic interactionism, ethnomethodology and other recent developments in sociological social psychology, phenomenology, humanistic social psychology and critical reflexive sociology.

SOC 238. Environmental Sociology. 3 Units
Term Typically Offered: Fall, Spring

Examines the complex relationship between human society and its surrounding environment. Theoretical perspectives are complemented by empirical research on environmental issues. Special attention is given to issues relating to the local and regional California environment. Analyzes environmental issues in a global context.

SOC 240. Seminar: Sociological Theory. 3 Units
Prerequisite(s): Classified graduate status in sociology; all others by instructor permission only.
Term Typically Offered: Fall, Spring

Analyzes and critiques terms and issues in social and sociological theory including levels of social reality and differing perspectives - positivism, idealism, realism, post-modernism, feminism, etc.

SOC 255. Social Research in Crime and Deviance. 3 Units
Term Typically Offered: Fall, Spring

Comprehensively reviews and evaluates major sociological theories of crime and deviance, methods of studying crime and deviance, current empirical research in crime and deviance, empirical testing of sociological explanations of crime and deviance, and empirical evaluation of crime and deviance control policy.

SOC 260. Contemporary Issues of the Middle East and North Africa. 3 Units
Term Typically Offered: Fall, Spring

Discusses in-depth several contemporary issues such as the political dimension of Islam, population growth and food security, oil and development, regional conflict, national integration and forces of modernization, etc. The selection of the topics will depend on current events.

SOC 265. Race and Ethnic Relations. 3 Units
Term Typically Offered: Fall, Spring

Examines the social constructs of race and ethnicity as 'central organizing principles' in the making and development of our modern world, particularly in the U.S., and how they have interacted with class and gender to create and maintain cultural and material social inequalities. Evaluates competing and complementary theoretical frameworks explaining how race and ethnicity affect individual and group social-structural location (e.g., class position, educational attainment, and political power).

SOC 266. Sociology of The Family. 3 Units
Prerequisite(s): Classified graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Sociologically examines the family, with an emphasis on the contemporary American family. The numerous stages and variations of the family life cycle will be considered, with an emphasis on changes and the causes and consequences of the changes.

SOC 294. Special Topics in Sociology. 3 Units
Prerequisite(s): Open to classified graduate students in sociology; all other sociology graduate students by instructor permission
Term Typically Offered: Fall, Spring

Examines contemporary issues and social developments within the research specialization of department faculty. Provides a forum to discuss and evaluate controversies and advancements in the discipline of sociology including theory and methodologies.
Note: May be repeated twice for credit

SOC 295. Internship and Fieldwork. **1 - 3 Units**
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised internship and fieldwork experience in a variety of settings: (1) public or private agencies in the Sacramento community, (2) ethnic and/or minority communities, and (3) educational institutions including area community colleges and universities. Supervision is provided by authorized persons in the field and collaborative supervision is provided by sociology faculty at Sacramento State.
Credit/No Credit

SOC 299. Special Problems. **1 - 3 Units**
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work. Admission requires approval of the sponsor of the project and the Department Chair.

Credit/No Credit

SOC 500. Culminating Experience. **3 - 6 Units**
Prerequisite(s): Advancement to candidacy, successful thesis prospectus hearing, and a minimum 3.0 GPA.
Term Typically Offered: Fall, Spring

Completion of a thesis or a project. Thesis: the 6 unit master's thesis requirement must be completed under the direction of the student's thesis committee. Project: the 6 unit project requirement must be completed under the direction of the student's project committee.

BA in Sociology

Units required for Major: 43
Total units required for BA: 120

Program Description

The sociology major and minor have few specific requirements, allowing the student flexibility in selecting courses in the various subject areas covered in the program. The areas covered are:

1. social theory and methods of inquiry;
2. social institutions, such as the family, education, politics, work, and religion;
3. thematic areas of crime and deviance, diversity and inequality, socialization and interaction, globalization, and social change.

Pre-Major Requirements

Code	Title	Units
Required Lower Division Courses (6 Units)		
SOC 1	Principles of Sociology [1]	3
Select one of the following:		3
SOC 3	Social Problems [1]	
SOC 5	Exploring Issues Facing Contemporary Families	
SOC 8	Sense and Nonsense in Social Issues and Research [1]	
SOC 10	Issues in Crime and Social Control [1]	
Total Units		6

[1] Course also satisfies General Education (GE)/Graduation Requirement.

Program Requirements

Pre-Major Requirements must be completed.

Required Upper Division Courses: 6 units in progress from Group 2 or Group 3 will count toward the Major Requirements.

Code	Title	Units
1. Required Upper Division Courses: (17 Units)		
SOC 101	Introduction to Statistics for Sociologists	4
SOC 102	Research Methods in Sociology	4
SOC 125	Social Inequalities	3
SOC 150	Social Psychology	3
SOC 192	Sociological Theory	3
2. Select one of the following Advanced Study:		**3**
SOC 122	Immigration Studies	
SOC 130	Political Sociology	
SOC 133	Sport in a Global Perspective	
SOC/ENVS 138	Environmental Sociology	
SOC 140	Sociology of Education	
SOC 166	The Family	
SOC 171	Sociology of Religion	
3. Additional Upper Division Requirements: (17 Units)		
Select 17 units of the following upper division Sociology courses:		17
Crime and Deviance		
SOC 155	Criminology	
SOC 156	Delinquency	
SOC 157	Issues in Courts and Prisons	
SOC 158	Sociology of Deviance	
Diversity and Inequality		
SOC 118	Chicano Community	
SOC 120	Ethnic and Race Relations	
SOC 123	Black Studies in Sociology	
SOC/ID 124	Social Justice in Interdisciplinary Perspective	
SOC 126	Sociology of Gender [1]	
SOC 127	Men, Masculinity and Society	
SOC 160	Asian Societies	
SOC 162	Middle Eastern Societies and Culture	
Socialization and Interaction		
SOC 128	Sociology Of Sexuality	
SOC 134	Sociology of Film	
SOC 135	Sociology of Popular Culture	
SOC 146	Sociology of Aging	
SOC 168	Self and Society	
SOC 170	Sociology of Children and Adolescents	
SOC 190	Sociology of Small Groups	
Globalization and Social Change		
SOC 106	Births, Deaths and Borders	
SOC 110	Urban Life and Problems	
SOC 136	Social Movements	

SOC 144	Sociology of Health and Illness	
SOC 163	Conflict, Oil and Development in the Middle East	
SOC 164	Sociology of Globalization	
SOC 169	Changing American Family	
SOC 175	Work and Occupations	
SOC 176/ LBRS 100	Labor and the American Social Structure	
General		
SOC 194	Special Topics in Sociology	
SOC 195	Internship and Fieldwork	
A 196 Series Course		
SOC 199	Individual Study Projects	
Total Units		37

Note: SOC 195 or SOC 199 can be taken for 1-3 units of credit. A maximum of 3 units in SOC 195 or SOC 199 may be counted toward the major. Students may take up to 3 units of upper division courses outside the department in consultation with their undergraduate advisor.

[1] Course also satisfies General Education (GE)/Graduation Requirement.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (9 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking [2]		3
Area B: Physical Universe and Its Life Forms (10 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts [2]		0
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.		3
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (9 Units)		
Area D Course		3
Area D Course		3
Area D Course [3]		0
Area D Course - Take upper-division course to complete Area & upper division requirements.		3
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		43

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department recommends SOC 8 in the Pre-Major Requirements to meet Area A3.

[3] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement [3]		6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099).
Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department recommends SOC Elective that meets the WI Graduation Requirement; see Program Requirements table above.
Note: SOC courses that meet the WI Graduation Requirement are displayed with a pencil icon.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

MA in Sociology

Total units required for MA: 30

Program Description

The Master of Arts Program in Sociology is designed to provide a broad academic foundation for a variety of professional opportunities and community needs such as survey research, evaluation research, social problems analysis, career interest in community organizations, and teaching.

The program offers small seminars and allows for close student-faculty contact. The program encourages students to seek internships and fieldwork, and participate in observation experience among the many government, voluntary, and private agencies in the Sacramento area. Students concentrate on theory and research methods as well as areas

of specialization. Following coursework, students write a thesis based on original research.

Some graduates of the program enter Ph.D. programs at a variety of universities throughout the United States and others are employed in many state, local, and city government agencies and private businesses doing evaluation research, systems analysis, social problems analysis, and social impact assessment.

Admission Requirements

Admission as a classified graduate student in Sociology requires:

- a baccalaureate degree;
- a minimum 3.0 GPA in the last 60 units attempted;
- satisfactory completion of a minimum of 18 units of undergraduate work in Sociology, including one course each in theory, statistics, and methodology, with a minimum 3.0 GPA;
- two letters of recommendation from faculty members in Sociology who know the applicant well enough to assess his/her potential for graduate study.

Students who have deficiencies in admission requirements that can be removed by specified additional preparation may be admitted with conditionally classified graduate status. Any such deficiencies will be noted on a written response to the admission application.

Admission Procedures

Applications are accepted as long as room for new students exists. All prospective graduate students, including Sacramento State graduates, must file the following with the Office of Graduate Studies, River Front Center 215, (916) 278-6470:

- an online application for admission;
- two sets of official transcripts from all colleges and universities attended, *other than Sacramento State; and*
- two letters of recommendation from Sociology faculty members to the Graduate Coordinator in the Sociology Department.

For more admissions information and application deadlines please visit http://www.csus.edu/gradstudies/.

Minimum Units and Grade Requirement for the Degree

Units required for the MA: 30

Minimum Cumulative GPA: 3.0

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy, indicating a proposed program of graduate study. This procedure should begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 15 units in the graduate program with a minimum 3.0 GPA;
- completed a draft of the thesis prospectus; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Advancement to candidacy forms are available in the Department Office. The student fills out the form after planning a degree program in consultation with a Sociology Graduate Advisor. The completed form should be returned to the Office of Graduate Studies for approval.

Note: A foreign language is not required for the degree. However, students who plan further graduate study are encouraged to study French, German, or Spanish since proficiency in one of these is sometimes required in doctoral programs.

Program Requirements

Code	Title	Units
Required Core Courses (15 Units)		
SOC 200A	Orientation to Graduate Studies in Sociology	1
SOC 200B	Thesis Prospectus/Project Preparation Seminar	2
SOC 214	Research Methods	3
SOC 215	Data Analysis	3
SOC 235	Social Psychology	3
SOC 240	Seminar: Sociological Theory	3
Electives (9 Units)		
Select 9 units from the following:		9
SOC 210	Urban Sociology	
SOC 220	Seminar: Social Change	
SOC 225	Social Stratification	
SOC 226	Sociology of Gender	
SOC 230	Seminar: Social Organization	
SOC 238	Environmental Sociology	
SOC 255	Social Research in Crime and Deviance	
SOC 260	Contemporary Issues of the Middle East and North Africa	
SOC 265	Race and Ethnic Relations	
SOC 266	Sociology of The Family	
SOC 295	Internship and Fieldwork [1]	
SOC 299	Special Problems [1]	
Culminating Experience (6 Units)		
SOC 500	Culminating Experience	6
Total Units		30

[1] No more than 3 units of SOC 295 and SOC 299 may be counted toward the degree.

Minor in Sociology

Units required for Minor: 21

Program Description

The sociology major and minor have few specific requirements, allowing the student flexibility in selecting courses in the various subject areas covered in the program. The areas covered are:

1. social theory and methods of inquiry;
2. social institutions, such as the family, education, politics, work, and religion;
3. thematic areas of crime and deviance, diversity and inequality, socialization and interaction, globalization, and social change.

Program Requirements

Code	Title	Units
SOC 1	Principles of Sociology	3
Select one of the following:		3
SOC 3	Social Problems	
SOC 5	Exploring Issues Facing Contemporary Families	
SOC 8	Sense and Nonsense in Social Issues and Research	
SOC 10	Issues in Crime and Social Control	
Select 15 units of upper division sociology elective courses.		15
Total Units		21

Urban Land Development

College of Social Sciences and Interdisciplinary Studies

Program Description

The purpose of this program is to bring together the private (decision making) and public (policy) aspects of real estate development and to help students develop skills related to land development in metropolitan areas. The program is interdisciplinary and covers all major aspects of the development process including design, feasibility analysis, land use regulation, market and location analysis, and negotiation. Thus, graduates from the program would bridge the gap between

1. professional training in fields such as city planning and public policy and
2. business administration.

Graduates from the new program should be able to understand the constraints and incentives faced by both the private and public sectors when making land use recommendations and decisions.

Degree Program

MS in Urban Land Development (p. 1092)

Contact Information

Robert Wassmer, Director
Tahoe Hall 3037
(916) 278-6304
wassme@csus.edu

MS in Urban Land Development

Total units required for MS: 33

Program Description

The purpose of this program is to bring together the private (decision making) and public (policy) aspects of real estate development and to help students develop skills related to land development in metropolitan areas. The program is interdisciplinary and covers all major aspects of the development process including design, feasibility analysis, land use regulation, market and location analysis, and negotiation. Thus, graduates from the program would bridge the gap between

1. professional training in fields such as city planning and public policy and
2. business administration.

Admission Requirements

The following are required for admission to the Master's Program in Urban Land Development (including admission as a conditional ULD Master's student):

- A BA or BS degree;
- A *minimum* GPA of 3.0 or above in all undergraduate courses;
- Completion of the foundation courses or their equivalents with a *minimum* GPA of 3.0 and no grade lower than a 'B-'; and
- A *minimum* score of 550 (213 if computer based) on the Test of English as a Foreign Language (TOEFL) for students whose preparatory education was in a language other than English, taken within three years of the date of application.

Additionally, the following information will be considered in evaluating applications:

- The candidate's overall GPA, GPA in the last 60 units of the bachelor's program, and GPA in foundation courses;
- The candidate's performance on the Graduate Management Admission Test (GMAT) or the Graduate Record Examination (GRE) taken within three years of the date of application;
- The candidate's written statement of purpose; and
- The candidate's letters of recommendation.

Admission Procedures

The Department of Public Policy and Administration in the College of Social Sciences and Interdisciplinary Studies will be responsible for processing applications at the departmental level. The Graduate Office will process applications twice a year: once in the fall semester and once in the spring semester. Candidates for the MS in Urban Land Development will be required to submit the following information to the PPA Graduate Office:

- Any specific application form that may be developed for the program;
- GMAT or GRE scores;
- TOEFL scores (if applicable);
- A written statement of purpose addressing the applicant's purpose in pursuing a Master's in Urban Land Development; and
- Three letters of recommendation from individuals with knowledge of the applicant's academic and professional potential.

Additionally, the candidate shall submit the following information to the University's Office of Graduate Studies:

- The application for graduate school admission (in accordance with any applicable University filing deadlines);
- Two sets of official transcripts from all colleges and universities attended; and
- TOEFL scores (if applicable).

For more admissions information and application deadlines please visit http://www.csus.edu/gradstudies/.

Applicants who are approved for admission will receive a letter from the Associate Dean, Office of Graduate Studies. The Graduate Admission

Recommendation (GAR) form will include any relevant information about proficiencies to be addressed and foundation courses that are required.

Students are expected to have demonstrated basic proficiency in statistics and computer usage before enrolling in the foundation courses. Such proficiencies include the following

- Statistics: equivalent to an introductory course in probability and statistics; and
- Computer usage: literacy as demonstrated by coursework or competency examination.

The program director has the discretion to determine if and how such proficiencies may be demonstrated.

Moving from Foundation to Required Courses

Students who have met the above prerequisites can be admitted as conditional ULD Master's students and enroll in the foundation courses. To advance from the foundation to the required courses students must

1. earn a B- or better in all foundation courses and
2. maintain an overall grade point average of 3.0 or better in such courses.

Students in the last semester of the foundation courses must file an Application for Classification with the Graduate Programs Office in the College of Social Sciences. The student's academic status will be reviewed to assure that he or she meets the necessary criteria to be accepted as a classified graduate student. At the discretion of the ULD program director, a student may enroll in required or elective courses while concurrently completing the last of the foundation courses.

Minimum Units and Grade Requirement for the Degree

Units for the MS: 33

Minimum Cumulative GPA 3.0

Advancement to Candidacy

Before enrolling in a 500 level course a student must advance to candidacy. Initiation of advancement is the responsibility of the student. The application for Advancement to Candidacy must be filed no more than four weeks before the opening of the final semester of the program. To be eligible to advance a student must be making satisfactory progress and have completed at least 12 units in the program beyond the foundation courses. Satisfactory progress is defined in part as earning an overall GPA of 3.0, with no grade in a foundation or required course below a 'B-'. Students with a GPA deficiency cannot advance to candidacy. Students must also satisfy the Writing Placement for Graduate Students (WPG) or take a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Code	Title	Units
Foundation Courses (6 Units)		
ECON 1B	Introduction to Microeconomic Analysis [1]	3
FIN 101	Business Finance [1]	3
Total Units		6

[1] Equivalent courses may be substituted with approval of the program director.

Program Requirements

Code	Title	Units
Program Requirements (18 Units)		
MBA 251	Real Estate Finance and Investment	3
MBA 253	Seminar in Real Estate Development	3
PPA 207	Quantitative Methods in Public Policy and Administration	3
PPA 220A	Applied Economic Analysis I	3
PPA 270	Introduction to Collaborative Policy Making	3
PPA/ECON 251	Urban Problems, Economics and Public Policy	3
Elective Courses (12 Units)		
Select four of the following: [1]		12
CE 261	Transportation Planning	
ECON 114	The California Economy	
ENVS 122	Environmental Impact Analysis: CEQA and NEPA	
ENVS/GOVT 128	Environment and the Law	
GEOG 109	Geographic Information Systems	
GEOG 110	Advanced Geographic Information Systems	
GEOG 145	Population Geography	
GEOG 161	California's Water Resources	
GOVT 280		
GOVT 284		
MBA 220	Financial Management	
MBA 223	Asset Valuation	
MBA 230	Behavior Science Applications in Management	
MBA 240	Marketing Management	
MBA 264	Business Intelligence	
PPA 205	Research in Public Policy and Administration	
PPA 220B	Applied Economic Analysis II	
PPA 240A	Public Management and Administration I	
PPA 250	California Land Use Policy	
PPA/ECON 251	Urban Problems, Economics and Public Policy	
PPA 272	Collaborative Governance Advanced Practice	
Culminating Experience (3 Units)		
Select one of the following:		3
MBA 500A/500B	Thesis	
PPA 500	Culminating Experience	
Total Units		33

[1] Other courses approved by the program coordinator may be used to meet the elective course requirements. However, a maximum of six (6) units of upper division undergraduate coursework may be used to meet the elective course requirements.

Women's Studies

College of Social Sciences and Interdisciplinary Studies

Program Description

The field of Women's Studies is dedicated to studying women's lives and facilitating political activism and community participation. What makes

Women's Studies such a dynamic field is the conviction that theoretical knowledge is best illuminated when connected to political projects and personal experiences.

Our Women's Studies curriculum is multi-disciplinary and focuses on women, gender, and sexuality in relation to other social and economic forces such as racism, ethnocentrism, capitalism, and militarism. Students have opportunities to examine women's diverse experiences--locally, nationally, and globally--within feminist and social justice frameworks.

The course of study situates gender in specific historical and cultural contexts, and examines how our lives are shaped by social and economic institutions, political movements, and individual experiences. We also place a strong focus on community involvement and activism, and we offer many opportunities for internships and service work credit.

Women's Studies affirms the Preamble and Purpose of the National Women's Studies Association which states:

> "Women's Studies owes its existence to the movement for the liberation of women; the women's liberation movement exists because women are oppressed… Feminist aims include the elimination of oppression and discrimination on the basis of sex, race, class, religion, disability, and sexual orientation."

Degree Programs

Minor in LGBTQ Studies (p. 1098)

Minor in Women's Studies (p. 1098)

BS in Women's Studies (p. 1096)

Contact Information

Sujatha Moni, Department Chair
Lora Bowler, Administrative Support Coordinator
Amador Hall 561B
(916) 278-6817
www.csus.edu/woms (http://www.csus.edu/woms/)
Womensstudies@csus.edu

Faculty

CAMERON-WEDDING, RITA

JONES, CARA

JOSEPHSON, TRISTAN

MONI, SUJATHA

WOMS 50. Introduction to Gender & Sexuality. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to basic concepts and issues informing studies in gender, gay, lesbian, bisexual and transsexual/gender (GLBT) identities. Classic and contemporary texts from different cultures will cover biological, historical and social constructions of gender and sexuality. Transformations in family and society, global and intersectional perspectives on GLBT identity, political activism, cultural and social perceptions of gender and sexuality will be discussed.

WOMS 75. Introduction to Disability Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

This course is an introduction to disability studies. An intersectional approach to knowledge construction about disability will be examined. This interdisciplinary study draws on humanities and social sciences, feminism, medical and scientific literature, and popular sources. How gender, race, class, sexuality, ethnicity, and nationality intersect with disability to shape experience will be analyzed. Historical and contemporary social movements and activism by people with disabilities will also be discussed.

WOMS 110. Introduction to Women's Movements in the United States. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

An examination of the institutional structures, practices and ideals contributing to feminist struggles, and achievements of women¿s movements in the United States. This course explores how factors of race, class, gender, and sexuality have contributed to the emergence of feminist consciousness and struggles for social justice in the United States from the nineteenth century to the present time.

WOMS 115. Introduction to Women's Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to the origins and models of Women's Studies. Explores the significance of a new field of study, and examines the methods of interdisciplinary study. Provides an opportunity to read a number of Women's Studies 'classics' and to trace the development of feminist theory.

WOMS 118. Asian American Women. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Using an interdisciplinary approach, course offers a broad introduction to broad principle values and traditions shaping Asian American women's lives in the U.S. Examines cultural diversity, gender inequality and conflicts between traditions and social practices through critical analysis of literature, film and cultural theories as expressions of identity. Topics covered include: cultural heritage and philosophies, intergenerational conflict, transnationalism, gender roles and socio-economic practices. Comprehensive understanding principle factors governing Asian American women's lives at the nexus of Asian and American cultures. Cross-listed: ETHN 118.

WOMS 120. Mother Woman Person. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

This course applies principles of feminism to the study of motherhood as social institution and private experience. Students explore family, cultural and social values that influenced their mothers and grandmothers, analyzing the impact of social institutions on their own childhood and adulthood. Students develop awareness of the historic evolution of women's social and private roles and the changing emphasis on woman as mother, wife/sexual companion and wage earning person largely through African American women's social movements.

WOMS 121. Women Of The Middle East. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Provides an introduction to historical and contemporary conditions affecting women's lives and contributions to Middle Eastern societies. Readings will be framed with a focus on women within state systems and political life, economic activity, family systems, religious thought and law, health, arts and literature.

WOMS 125. Sex & Gender in South Asia. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

This course focuses on love, sex & gender in the cultures of South Asia starting with ancient times to the present. The influence of social customs, traditions, religion, and social class on human relationships will be examined using various texts and films. Gender and sexual identity, sexual desire, eroticism, sex role stereotyping, violence against women, gay and transgender people, subversive desires and the threat they post to patriarchal structures will be explored.

WOMS 133. Gender & Health. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall only

This course explores feminist analyses of medicine. An intersectional approach to how medical science constructs knowledge about health will be examined. This interdisciplinary study draws on humanities and social sciences; feminism; medical, scientific, and clinical literature; popular sources; and web discourses. How gender, race, class, sexuality, ethnicity, nationality, and disability intersect and shape behavior and experience will be analyzed. Contemporary social movements and activism by women and LGBTQIA+ people will also be discussed.

WOMS 136. Gender, Race, and Class. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring

Designed to examine the effects of the dynamic interaction of gender, race, and class on women. The social construction of gender, race, and class will also be examined. Other topics to be discussed and researched are the effects of sexism, racism, and classicism on institutions such as academia, business, government, religion, and social movements. Also provides an analysis of effective techniques to end sexism, racism, and classicism.

WOMS 137. Women Of Color. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Examines the social, economic, and cultural uniqueness of various ethnic groups in the U.S. Includes discussion of definitions of sexism, racism, economic exploitation, feminism, and the nature and evolution of the women's movement in relation to women of color.

WOMS 138. Women and Work. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Explores topics basic to discussion of women's paid and unpaid work from historical and crosscultural perspectives. Consideration is given to popular conceptions and stereotypes of work and 'women's issues' in the industrialized world; the private and public lives of women and men with emphasis on work and social realities; and the maintenance of patriarchy under capitalism, socialism and communism, with some possible feminist 'solutions.

WOMS 139. Violence Against Women. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Consider from an international feminist perspective the forms of violence directed at women. It will also look at contemporary attitudes towards women, children, power, aggression and sexuality. Topics include sexual assault; child abuse; medical violence; psychiatric violence; economic violence; and military violence. Also examines the ways in which women are individually and collectively combating these various forms of violence.

WOMS 144. Women and Theatre: Staging Diversity. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Includes study of recent feminist performance theory and criticism and its application to acting, directing, and writing for the theatre. Students will participate in both lecture/discussion and activities, including the creation of a final performance. Lecture two hours; lab two hours. Cross Listed: THEA 144; only one may be counted for credit.

WOMS 145. Feminism and the Spirit. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Provides a critique of traditional patriarchal religions and traces women's participation in the evolution of the human spirit. Consideration is given to the history of Goddess religion and its resurgence in the contemporary world; sexism in institutionalized religions and the current advances women are making in the churches; and dimensions of woman spirit incorporated in today's feminist art and literature.

WOMS 146. Women In Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Study of the unique and important contributions of women to the visual arts (Renaissance to present) and their personal struggle toward success and recognition. The Women's Art Movement and its impact on education, museums and women's status in the arts are important topics of this class.

WOMS 147. Women's Global Issues. **3 Units**
Prerequisite(s): Minimum 45 units completed
Term Typically Offered: Fall, Spring

Provides a historical overview, as well as in-depth studies of the similarities and differences in feminist developments from an international perspective. Examples will be drawn from industrialized democracies, centrally planned socialist states, and third world countries. Pluralistic trends in feminist development within countries will also be examined with a view to understanding the differential impact of gender based discrimination on different categories of women.

WOMS 150. Introduction to Queer and Trans Studies. **3 Units**
Prerequisite(s): WOMS 50 or instructor permission.
Term Typically Offered: Fall, Spring

Introduces students to the fields of queer theory and trans theory from a transnational feminist perspective. Includes theoretical approaches to the history of sexuality and the politics of sexual and gender normativity. Places queer and trans studies in conversation with Native studies, dis/ability studies, postcolonial theory, critical race and ethnic studies, and feminist theory.

WOMS 166. Gender and Politics. **3 Units**
Term Typically Offered: Spring only

This course examines the influence of socially constructed meanings of femininity and masculinity on the political participation of women, candidate selection, election campaigns, and electoral outcomes in executive and legislative offices in the U.S. and worldwide. Students will develop a rich understanding of the relationship between gender and women¿s political representation and analyze and discuss institutional, structural, cultural, and historical conditions associated with women¿s voting behavior, political advancement, leadership styles, and impacts of political representation on women.
Cross Listed: GOVT 166; only one may be counted for credit.

WOMS 172. LGBTQ Histories. **3 Units**
Term Typically Offered: Spring only

This course provides an introduction to the study of lesbian, gay, bisexual, transgender, and queer (LGBTQ) histories. Uses an interdisciplinary and comparative approach to explore the historical emergence and development of LGBTQ identities, communities, and political movements. Includes theoretical analysis of the history of gender and sexuality and the practice of historical analysis.
Cross Listed: HIST 172; only one may be taken for credit.

WOMS 180. Seminar in Feminist Theory. **3 Units**
Prerequisite(s): WOMS 110 or instructor permission.
Term Typically Offered: Fall, Spring

Advanced course providing detailed inquiry into specific feminist theories, including their conceptual framework and development, relationship to other political theories and application to the current practices of feminism.

WOMS 195A. Fieldwork in Women's Studies. **1 - 3 Units**
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised experience in selected women's organizations and projects in the Sacramento area; for example, the Rape Crisis Center, Women Escaping a Violent Environment (WEAVE), Sacramento Women's Center.
Credit/No Credit

WOMS 199. Special Problems. **1 - 3 Units**
Prerequisite(s): WOMS 115 and instructor permission.
Term Typically Offered: Fall, Spring

Supervised individual research projects or directed reading specifically related to Women's Studies topics. Should be taken by students who can work on an individual basis.
Credit/No Credit

WOMS 299. Special Research Problems. **1 - 3 Units**
Term Typically Offered: Fall, Spring

Supervised research projects and directed study specifically related to Women's Studies and taken on an individual basis by Graduate students in the Special Major Graduate Program.
Credit/No Credit

BS in Women's Studies

Units required for Major: 36
Total units required for BS: 120

Program Description

The field of Women's Studies is dedicated to studying women's lives and facilitating political activism and community participation. What makes Women's Studies such a dynamic field is the conviction that theoretical knowledge is best illuminated when connected to political projects and personal experiences.

Our Women's Studies curriculum is multi-disciplinary and focuses on women, gender, and sexuality in relation to other social and economic forces such as racism, ethnocentrism, capitalism, and militarism. Students have opportunities to examine women's diverse experiences--locally, nationally, and globally--within feminist and social justice frameworks.

Minimum total units required for the BS: 120; 40 units should be upper division.

Minimum Grade Requirement

A minimum grade of C- is required of courses applied to the major.

Program Requirements

Code	Title	Units
Required Lower Division Core Courses (3 Units)		
WOMS 50	Introduction to Gender & Sexuality [1]	3
Required Upper Division Courses (9 Units)		
WOMS 110	Introduction to Women's Movements in the United States	3
WOMS 115	Introduction to Women's Studies [1]	3
WOMS 180	Seminar in Feminist Theory	3
Required Upper Division Elective Courses (24 Units) [2]		
Select at least one course from each of the following categories:		24
Identities and Intersectionality		
ANTH 183	Women Cross-Culturally	
EDUC 165	Sex Role Stereotyping in American Education	
ETHN 132	La Mujer Chicana	
ETHN 151	Native American Women	
ETHN 172	Black Women In America	

HROB 158	Special Topics in Human Resource Management
PSYC 134	Psychology of Human Sexuality
PSYC 157	Psychology of Women
WOMS 120	Mother Woman Person [1]
WOMS 136	Gender, Race, and Class
WOMS 137	Women Of Color
WOMS/POLS 166	Gender and Politics
WOMS 195A	Fieldwork in Women's Studies
WOMS 199	Special Problems
The Humanities	
ENGL 185B	Twentieth Century Fiction by Women
ENGL 185C	British Women Novelists
ENGL 185D	American Women Writers
HIST 122A	History of Women in Western Civilization, Prehistory-Middle Ages
HIST 122B	History of Women in Western Civilization, Renaissance-Present
HIST 167	History of American Women
HRS 185	Women in Film and American Culture
JOUR 172	Women in the Mass Media
PHIL 123	Philosophy and Feminism
WOMS/ETHN 118	Asian American Women
WOMS/THEA 144	Women and Theatre: Staging Diversity
WOMS 145	Feminism and the Spirit
WOMS 146	Women In Art
Society, Politics and Social Movements	
CRJ 111	Women and the Criminal Justice System
EDTE 266	Gender Constructs in Education
HIST 175A	Sex, Population, and Birth Control in America
SOC 126	Sociology of Gender
SWRK 134	Crimes Without Victims
WOMS 133	Gender & Health
WOMS 139	Violence Against Women
WOMS 150	Introduction to Queer and Trans Studies
WOMS/POLS 166	Gender and Politics
WOMS 172	LGBTQ Histories
Economic Globalization and Transnational Feminism	
ECON 184	Women and the Economy
WOMS 121	Women Of The Middle East
WOMS 125	Sex & Gender in South Asia
WOMS 138	Women and Work
WOMS 147	Women's Global Issues
Total Units	36

[1] Course also satisfies General Education (GE)/Graduation Requirement.

[2] Descriptions of non-Women's Studies courses may be obtained by consulting the listings under the appropriate departments. Please consult the Women's Studies Department for any new courses added to these categories. The major and minor in Women's Studies are planned in advance and approved for graduation by the Women's Studies Coordinator.

General Education Requirements [1]

Code	Title	Units
Area A: Basic Subjects (6 Units)		
A1 - Oral Communication		3
A2 - Written Communication		3
A3 - Critical Thinking [2]		0
Area B: Physical Universe and Its Life Forms (10 Units)		
B1 - Physical Science		3
B2 - Life Forms		3
B3 - Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)		1
B4 - Math Concepts		3
B5 - Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. [2]		0
Area C: Arts and Humanities (12 Units)		
C1 - Arts		3
C2 - Humanities		3
C1/C2 - Area C Course		3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.		3
Area D: The Individual and Society (6 Units)		
Area D Course		3
Area D Course		3
Area D Course [2]		0
Area D Course - Take upper-division course to complete Area & upper division requirements. [2]		0
Area E: Understanding Personal Development (3 Units)		
Area E Course		3
Total Units		37

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Required in Major; also satisfies GE.

Graduation Requirements [1]

Code	Title	Units
Graduation Requirements (required by CSU) (6 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) [2]		0
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3

Race and Ethnicity in American Society (RE)	3
Foreign Language Proficiency Requirement [3]	6

[1] To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (p. 1099). **Note:** There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

[2] Department recommends WOMS Elective that meets the WI Graduation Requirement; see Program Requirements table above. **Note:** WOMS courses that meet the WI Graduation Requirement are displayed with a pencil icon.

[3] If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Minor in LGBTQ Studies

Units required for Minor: 18

Program Description

The LGBTQ Studies minor provides students with competency in interdisciplinary scholarship related to the study of lesbian, gay, bisexual, transgender, and queer lives and communities as well as to the study of gender and sexual structures. The minor familiarizes students with the theoretical and methodological tools used to study gender and sexuality from a variety of disciplinary perspectives. Students will gain an understanding of how non-normative sexualities and genders have been organized in previous historical moments and in different cultural and national contexts in the present. The minor equips students with awareness of sexual and gender diversity and how sexuality intersects with and informs other categories of identity and practice, such as race, class, ethnicity, age, and disability.

A minor in LGBTQ Studies prepares students for their pursuit of graduate and professional degrees. Given the increasing demand for nuance around issues of diversity in both the public and private sectors of the job market, this minor also positions Sacramento State graduates well for careers in education, social work, counseling, health care, social services, media, law and policy, and nonprofit advocacy.

Program Requirements [1]

Code	Title	Units
Required Core Courses (6 Units)		
WOMS 50	Introduction to Gender & Sexuality	3
WOMS 150	Introduction to Queer and Trans Studies	3
Elective Courses (12 Units)		
Select four from the following:		12
ENGL 170M	Literatures Of Sexuality	
ENGL 190Q	LGBTQ Literature	
HIST 131	History of Sexuality in Comparative Perspective	
HLSC 134 or PSYC 134	Psychology of Human Sexuality	
PHIL 123	Philosophy and Feminism	
POLS 168	Gay and Lesbian Politics	
PSYC 160	Homosexuality	
SOC 128	Sociology Of Sexuality	
SWRK 129	Human Sexuality in Social Work Perspectives	
WOMS 125	Sex & Gender in South Asia	
WOMS/HIST 172	LGBTQ Histories	
Total Units		18

[1] No more than 9 units in any one discipline can be taken for credit. Students must take at least one course in three *different* disciplines.

Minor in Women's Studies

Units required for the Minor: 21

Program Description

The field of Women's Studies is dedicated to studying women's lives and facilitating political activism and community participation. What makes Women's Studies such a dynamic field is the conviction that theoretical knowledge is best illuminated when connected to political projects and personal experiences.

Our Women's Studies curriculum is multi-disciplinary and focuses on women, gender, and sexuality in relation to other social and economic forces such as racism, ethnocentrism, capitalism, and militarism. Students have opportunities to examine women's diverse experiences--locally, nationally, and globally--within feminist and social justice frameworks.

The Minor in Women's Studies emphasizes the position and achievement of women in various fields of study.

All courses taken must be upper division.

Program Requirements

Code	Title	Units
Required Courses (9 Units)		
WOMS 110	Introduction to Women's Movements in the United States	3
WOMS 115	Introduction to Women's Studies	3
WOMS 180	Seminar in Feminist Theory	3
Electives (12 Units) [1]		
Select at least one course from each of the following categories:		12
Identities and Intersectionality		
ANTH 183	Women Cross-Culturally	
EDUC 165	Sex Role Stereotyping in American Education	
ETHN 132	La Mujer Chicana	
ETHN 151	Native American Women	
ETHN 172	Black Women In America	
HROB 158	Special Topics in Human Resource Management	
PSYC 134	Psychology of Human Sexuality	
PSYC 157	Psychology of Women	
WOMS 120	Mother Woman Person	
WOMS 136	Gender, Race, and Class	

WOMS 137	Women Of Color
WOMS/GOVT 166	Gender and Politics
WOMS 195A	Fieldwork in Women's Studies
WOMS 199	Special Problems
The Humanities	
ENGL 185B	Twentieth Century Fiction by Women
ENGL 185C	British Women Novelists
ENGL 185D	American Women Writers
HIST 122A	History of Women in Western Civilization, Prehistory-Middle Ages
HIST 122B	History of Women in Western Civilization, Renaissance-Present
HIST 167	History of American Women
HRS 185	Women in Film and American Culture
JOUR 172	Women in the Mass Media
PHIL 123	Philosophy and Feminism
WOMS/THEA 144	Women and Theatre: Staging Diversity
WOMS 145	Feminism and the Spirit
WOMS 146	Women In Art
Society, Politics and Social Movements	
CRJ 111	Women and the Criminal Justice System
EDTE 266	Gender Constructs in Education
SOC 126	Sociology of Gender
SWRK 134	Crimes Without Victims
WOMS 139	Violence Against Women
WOMS/GOVT 166	Gender and Politics
WOMS 150	Introduction to Queer and Trans Studies
Economic Globalization and Transnational Feminism	
ECON 184	Women and the Economy
WOMS 121	Women Of The Middle East
WOMS 138	Women and Work
WOMS 147	Women's Global Issues
Total Units	21

[1] Descriptions of non-Women's Studies courses may be obtained by consulting the listings under the appropriate departments. Please consult the Women's Studies Department for any new courses added to these categories. The major and minor in Women's Studies are planned in advance and approved for graduation by the Women's Studies Coordinator.

Office of Academic Affairs

Academic Affairs is the largest administrative unit in the University, encompassing the seven Academic Colleges, the University Library, and the College of Continuing Education.

Our Program Centers include: the Office of Graduate Studies, Research Administration, the Community Engagement Center, the Center for Teaching and Learning, Academic Technology & Creative Services, International Programs & Global Engagement, and the Center for College Readiness. Most important, we ensure quality academic programs for all students and support well qualified faculty to provide excellent teaching and learning.

Programs:

General Education (p. 1099)
General Education Honors (p. 1130)
Peace Corps Prep Certificate (p. 1018)
ROTC (p. 1132)
Special Major/Minor (p. 1135)

Academic Affairs
Sacramento State
6000 J Street
Sacramento, CA 95819-6016
Phone: (916) 278-6331
Fax: (916) 278-7648
Email: Academic Affairs (academicaffairs@csus.edu)

General Education

Click here for General Education Requirements prior to Fall 2018. *(p. 1115)*

One of the principles on which a modern university rests is the assumption that there is an important difference between learning to make a living and building the foundation for a life. While the first goal is important, the second is fundamental.

In focusing on the students' development as whole or "educated" people, a university distinguishes itself from a trade school. The goal of a university education is not simply the acquisition and application of knowledge, but the creation of people who firmly grasp the worth of clear thinking and know how to do it; who understand and appreciate the differences between peoples and cultures as well as their similarities; who have a sense of history and social forces; who can express thought clearly and have quantitative ability; who know something about the arts as well as how to enjoy them; who can talk and think intelligently about the physical and life sciences, the humanities, and literature; and, above all, who have the desire and capability for learning. This goal is why a university degree is so highly valued by individuals, employers, and the community at large.

The Sacramento State General Education Program is designed to educate in this holistic sense. Thus, it is not simply a series of courses to complete or hoops for students to jump through as they complete the courses in their major. Rather, general education lies at the heart of what a university education is all about.

Therefore students should carefully select courses and actively seek subject areas that are new and may challenge their world views or cherished assumptions and offer new experiences, such as inquiry-based or community-based learning. In short, students should not take the easy way out. This is their opportunity to lay the foundation for the rest of their lives, and to define themselves as educated members of the human community. Their time at the university is precious and the General Education Program has been designed to help them begin the process of becoming truly educated people. In deciding to pursue a university degree, they have chosen well and should make the best use of the opportunities open to them.

Objectives

Upon completion of the General Education Program requirements, students will be expected to:

- read, write, and understand relatively complex and sophisticated English prose;
- construct a non-fallacious verbal argument, recognize fallacious arguments, and follow the verbal arguments of others;
- find and use common information resources, engage in specialized library research, use computers, and seek out appropriate expert opinion and advice;
- use mathematical ideas to accomplish a variety of tasks;
- gain a general understanding of current theory, concepts, knowledge, and scientific methods pertaining to the nature of the physical universe, ecosystems, and life on this planet;
- develop an acquaintance and understanding of cultures and major dynamic social institutions which affect one's life,
- possess a significant and useful understanding of peoples from a diversity of cultures and backgrounds, including women and ethnic and other minority groups who have been the objects of prejudice and adverse discrimination within our society.

In addition to these basic skills, courses in the sciences, arts, humanities, and social sciences have been selected to help students attain the university's baccalaureate learning goals and to satisfy particular GE Area Learning Outcomes. The Baccalaureate Learning Goals include:

- **Competence in the Disciplines**: The ability to demonstrate the competencies and values listed below in at least one major field of study and to demonstrate informed understandings of other fields, drawing on the knowledge and skills of disciplines outside the major.
- **Knowledge of Human Cultures and the Physical and Natural World** through study in the sciences and mathematics, social sciences, humanities, histories, languages, and the arts. Focused by engagement with big questions, contemporary and enduring.
- **Intellectual and Practical Skills, Including**: inquiry and analysis, critical, philosophical, and creative thinking, written and oral communication, quantitative literacy, information literacy, teamwork and problem solving, practiced extensively across the curriculum, in the context of progressively more challenging problems, projects, and standards for performance.
- **Personal and Social Responsibility, Including**: civic knowledge and engagement—local and global, intercultural knowledge and competence[1], ethical reasoning and action, foundations and skills for lifelong learning anchored through active involvement with diverse communities and real-world challenges.
- **Integrative Learning[2], Including**: synthesis and advanced accomplishment across general and specialized studies.

[1] Understanding of and respect for those who are different from oneself and the ability to work collaboratively with those who come from diverse cultural backgrounds.

[2] Interdisciplinary learning, learning communities, capstone or senior studies in the General Education program and/or in the major connecting learning goals with the content and practices of the educational programs including GE, departmental majors, the co-curriculum and assessments.

Sacramento State General Education courses are designed, selected, and approved by the faculty to meet these program objectives. Students will benefit from consultation with the Academic Advising Center or advisors in their major departments in planning their General Education course choices. Students may search the online Schedule of Classes by Area or other specification(s) for currently available GE courses.

Course Requirements

The following courses have been approved to meet the 48-unit General Education pattern required of Sacramento State students. At least **9 units must be in upper division GE courses (100-199) from Areas B, C, and D** taken after you complete 45 units of coursework. Enrollment in upper division GE courses is limited to students who have completed Areas A1, A2, A3. At least nine units of GE must be taken in residence (i.e., at Sacramento State). In addition, a second semester composition course and demonstration of proficiency in a foreign language are required for graduation.

General Education/Graduation Requirements Checklist

Download the checklist (https://www.csus.edu/undergraduate-studies/_internal/_documents/ge_worksheet_spring2019-sac-state-final.pdf)

General Education Requirements	Units
General Education requirements cover a breadth of areas spanning A. Basic Subjects, B. Physical Universe & Its Life Forms, C. Arts & Humanities, D. The Individual and Society, and E. Understanding Personal Development. For a list of courses that satisfy each Area and Requirement, please see the University Catalog.	
General Education Requirements: (9 units must be taken at Sacramento State)	**48**
Lower Division: A total of 39 units of General Education Courses must be taken at the lower-division level (courses numbered 1-99) covering Areas A, B, C, D, and E.	**39**
Upper Division: A total of 9 units of General Education Courses must be taken at the upper-division level (courses numbered 100-199) from Areas B, C, or D. These units should be completed within the total unit requirements for Areas B, C, or D.	**9**
Basic Subjects (Include 3 lower-division courses)	**9**
A1. Oral Communication 'C- or better required'	3
A2. Written Communication 'C- or better required'	3
A3. Critical Thinking 'C- or better required'	3
Physical Universe & Its Life Forms (Must include 1 upper-division course)	**12**
B1. Physical Science	3
B2. Life Forms	3

B3. Lab **NOTE:** Lab experience to be taken with one of the following: B1, B2 or B5.	
B4. Math Concepts 'C- or better required'	3
B5. Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper-division requirements.	3
Arts & Humanities (Must include 1 upper-division course)	**12**
C1. Arts	3
C2. Humanities	3
C1/C2. Any Area Course C. - **Note: recommended (if needed): 6 units of the Foreign Language requirement in C2 which double-counts for the Foreign Language proficiency requirement.**	3
C1/C2. Any Area C Course - Take upper-division course to complete Area & upper-division requirements.	3
The Individual & Society - Minimum of THREE disciplines must be taken in Area D (Must include 1 upper-division course)	**12**
D. Any Area D Course	3
D. Any Area D Course - Take upper-division course to complete Area & upper-division requirements.	3
D. Any Area D Course - Note: Recommend a U.S. History course which double-counts for the American Institutions Graduation Requirement.	3
D. Any Area D Course - Note: Recommend a U.S. Constitution and CA Government course which double-counts for the American Institutions Graduation Requirement.	3
Understanding Personal Development (Include 1 lower-division course)	**3**
E. Any Area E course	3

Graduation Requirements	Units
Minimum 2.0 GPA required for GE	
Graduation Requirements (required by CSU)	
American Institutions: U.S. History - The following courses satisfy the **U.S. History** Graduation Requirement and Area D: HIST 17A, HIST 17B, HIST 159, HIST 161, HIST 162, HIST 167, HIST 177, ANTH 101	3
American Institutions: U.S. Constitution & CA Government - The following satisfy the **U.S. Constitution & CA Government** Graduation Requirement and Area D: POLS 1, POLS 113, POLS 150	3
Writing Intensive (WI) - May satisfy Upper Division General Education or Major 'C- or better required'	3
Graduation Requirements (required by CA State University, Sacramento)	
English Composition II: ENGL 20 'C- or better required'	3
Race and Ethnicity in American Society (RE) - May double-count for unit requirements in General Education Areas B, C, or D	3
Foreign Language Proficiency Requirement - If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/wll/flgr (https://www.csus.edu/wll/flgr/)/	6

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). There is no way to list all possible overlaps so please complete this checklist with a professional advisor. We can help you identify the best course of action. Academic Advising Center can be visited online (http://www.csus.edu/acad/) or please call: (916) 278-1000 or email (advising@csus.edu).

Students must choose their General Education classes from the Areas and classes listed below:

Area A: Basic Subjects (p.) (9 units)

These requirements must be completed before enrollment in upper division GE courses. A grade of 'C-' or better is required in all courses taken in Area A.

Code	Title	Units
A1: Oral Communication		**3**
Select one of the following:		
COMS 4	Introduction to Public Speaking	
COMS 5	The Communication Experience	
A2: Written Communication		**3**
Select one of the following:		
ENGL 5	Accelerated Academic Literacies	
ENGL 5M	Accelerated Academic Literacies - Multilingual	
ENGL 11	Academic Literacies II	
ENGL 11M	Academic Literacies II-Multilingual	
A3: Critical Thinking		**3**
Select one of the following:		

ANTH 4	Language, Culture, and Critical Thinking
COMS 2	Argumentation
EDUC 10	Critical Thinking and the Educated Person
EDUC 10H	Critical Thinking and the Educated Person: Honors
ENVS 11	Environmental Issues and Critical Thinking
HIST 10	History's Mysteries: Thinking Critically about the Past
JOUR 50	Media Literacy and Critical Thinking
PHIL 4	Critical Thinking
PHYS 30	Science and Pseudoscience
SOC 8	Sense and Nonsense in Social Issues and Research
Total Units	9

Area B: The Physical Universe and Its Life Forms (p.) (12 Units)

At least 3 units must be taken in each of Areas B1, B2 and B4. At least one course with a laboratory component must be taken in Area B1 or B2.

Code	Title	Units
AREA B1: PHYSICAL SCIENCE		**3**
Select one of the following:		
ASTR 4A	Introduction to the Solar System	
ASTR 4B	Introduction to Stars, Galaxies, and Cosmology	
ASTR 4C	Introduction to Astrobiology	
ASTR 6	Astronomical Observation Laboratory	
CHEM 1A	General Chemistry I	
CHEM 6A	Introduction to General Chemistry	
GEOG 1	Physical Geography: The Distribution of Natural Phenomena	
GEOG 5	Violent Weather/Changing Atmosphere	
GEOG 11	Laboratory in Physical Geography	
GEOL 5	Geology Of Mexico	
GEOL 7	Natural Disasters	
GEOL 8	Earth Science	
GEOL 8L	Earth Science Lab	
GEOL 10	Physical Geology	
GEOL 10L	Physical Geology Lab	
PHYS 5A	General Physics: Mechanics, Heat, Sound	
PHYS 10	Physics In Our World	
PHYS 11A	General Physics: Mechanics	
AREA B2: LIFE FORMS		**3**
Select one of the following:		
ANTH 1	Introduction to Biological Anthropology	
ANTH 1A	Biological Anthropology Laboratory	
BIO 1	Biodiversity, Evolution and Ecology	
BIO 7	Introduction to the Science of Biology	
BIO 9	Our Living World: Evolution, Ecology and Behavior	
BIO 10	Basic Biological Concepts	
BIO 15L	Laboratory Investigations in Biology	
BIO 20	Biology: A Human Perspective	
ENVS 10	Introduction to Environmental Science	
ENVS 10H	Honors Environmental Science	
AREA B3: LAB		
Select a course from the following:		
ASTR 6	Astronomical Observation Laboratory	
ANTH 1A	Biological Anthropology Laboratory	
BIO 1	Biodiversity, Evolution and Ecology	
BIO 15L	Laboratory Investigations in Biology	
CHEM 1A	General Chemistry I	
CHEM 1B	General Chemistry II	
CHEM 6A	Introduction to General Chemistry	
CHEM 6B	Introduction to Organic and Biological Chemistry	
GEOG 11	Laboratory in Physical Geography	
GEOL 5	Geology Of Mexico	
GEOL 8L	Earth Science Lab	
GEOL 10L	Physical Geology Lab	
KINS 150	Exercise and Sport Physiology	
PHYS 5A	General Physics: Mechanics, Heat, Sound	
PHYS 11A	General Physics: Mechanics	
AREA B4: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING [1]		**3**
Select one of the following:		
EDUC 18	Mathematical Practices Across Cultures	
MATH 1	Mathematical Reasoning	
MATH 15H	Honors Mathematical Reasoning	
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics	
MATH 24	Modern Business Mathematics	
MATH 26A	Calculus I for the Social and Life Sciences	
MATH 26B	Calculus II for the Social and Life Sciences	
MATH 29	Pre-Calculus Mathematics	
MATH 30	Calculus I	
MATH 31	Calculus II	
MATH 35	Introduction to Linear Algebra	
STAT 1	Introduction to Statistics	
STAT 10A & STAT 10B	Introductory Statistics with Developmental Mathematics Introductory Statistics with Developmental Mathematics	
STAT 50	Introduction to Probability and Statistics	
AREA B5: FURTHER STUDIES IN PHYSICAL SCIENCE, LIFE FORMS, AND QUANTITATIVE REASONING		**3**
Select one from the following:		
ANTH 159	Forensic Anthropology	
ASTR 131	The Solar System and Space Exploration ✎	
ASTR 132	Stars, Galaxies and Cosmology ✎	
BIO 105	Life in the Ocean	
BIO 109	Biology of Dinosaurs	
CHDV 143	Mind and Brain in Developmental Context	
ENVS 163	Ethnoecology	
GEOG 111	Elements Of Meteorology	
GEOG 113	Climate	
GEOG 115	Biogeography	
GEOG 116	Global Climate Change	
GEOG 119	Visualizing Global Environments	

GEOL 115	Volcanoes: An Introduction
GEOL 130	Oceanography
GEOL 170	Age of Dinosaurs
HIST 104A	Ancient Science
HIST/PHSC 107	History of the Physical Sciences
KINS 150	Exercise and Sport Physiology
NUFD 112	Current Topics in Nutritional Sciences
NUFD 113	Nutrition And Metabolism
NURS 168	The Brain and Gender-Related Differences
PHIL 125	Philosophy Of Science
PHYS 181	Modern Physics for Everyone
PHYS 182	Physics of Sports
PHYS 187	Seeing the Light
WOMS 133	Gender & Health
Total Units	12

[1] Completion of ALEKS (unless exempt) is a prerequisite for courses in this Area. In addition, passage of course-based diagnostic exams is required. A grade of 'C-' or better is required in all courses taken in Area B4.

Area C: The Arts and Humanities (p.) (12 Units)

At least 3 units must be taken from Areas C1 (ARTS) and C2 (HUMANITIES).

Code	Title	Units
AREA C1: ARTS		**3 - 9**
Select 3-9 units from the following two divisions:		
Lower Division		
ART 1A	Art, Religions, and Power before 1400	
ART 1B	Art in the Western World: From Renaissance to Baroque	
ART 1C	Global Modern and Contemporary Art	
ART 2	History of Islamic Art	
ART 3A	Traditional Asian Art	
ART 3B	Modern and Contemporary Asian Art	
ART 5	Art of the Americas	
ART 7	Introduction to Art and Visual Culture	
ART 20A	Beginning Drawing	
ART 70	Form, Space Vision	
ART 86	Clay Sculpture	
ART 88	Beginning Sculpture	
ART 110	US and Caribbean Art: Race and Representation	
ART 118C	Public Art in the Americas	
GPHD 5	Introduction to Graphic Design	
GPHD 20	History Of Graphic Design	
INTD 15	Introduction to Interior Design	
INTD 20	Design	
MUSC 8	Basic Music	
MUSC 9	Music In World Cultures	
MUSC 10A	Survey of Music Literature I	
MUSC 10B	Survey of Music Literature II	
MUSC 18	Music Appreciation	
PHOT 11	Digital Imaging	
THEA 1	Introduction To Theatre	
THEA 2	History of the Theatre: Ancient to Renaissance	
THEA 3	Theatre History After 1660	
THEA 5	Aesthetics of Theatre and Film	
THEA 9	Appreciation Of Acting	
Upper Division		
ALS 151	The Studio: Explorations in Arts and Letters	
ART 111	Latin American and Latino Art History	
ART 117A	Art of India and Southeast Asia	
ART 117B	Art of China and Japan	
ASIA/HIST 140	Modern East Asian Cinema	
DNCE 130	Appreciation and History of Dance	
DNCE 131	Dance Cultures Of America	
DNCE 132	African-Caribbean Dance	
HIST 109	History of Modern Greece	
HIST 116	Europe, 1648-1815, The Age of Revolution	
HRS 176	The Confucian Tradition	
HRS 180	The Film	
HRS 181	Contemporary Issues in Film	
JAPN 120	Japanese Civilization	
ITAL 104A	Introduction to Italian Cinema I	
MUSC 118B	American Popular Music: Jazz History	
MUSC 118C	History of Rock Music	
MUSC 118D	Hip-Hop in Urban America	
MUSC 119A	World Music: Asia	
MUSC 119B	World Music: Africa	
MUSC 119C	World Music: Latin America	
MUSC 127	The American Musical Theater	
MUSC 129	American Society and Its Music	
NURS 179	Professional Communication and Reasoning Development	
PHIL 136	Philosophy Of Art	
THEA 115A	Multicultural Puppetry	
THEA 140	Black Drama in the African Diaspora	
THEA/WOMS 144	Women and Theatre: Staging Diversity	
THEA 170	African American Theatre and Culture	
THEA 173	Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present	
THEA 174	Multicultural Perspectives in American Theatre	
THEA 175	Multicultural Perspectives in American Film	
WOMS 146	Women In Art	
AREA C2: HUMANITIES		**3 - 9**
Select 3-9 units from the following two divisions		
Lower Division		
ANTH 13	Magic, Witchcraft and Religion	
ANTH 16	Comparative Early Civilizations	

CHIN 1B	Elementary Mandarin
DEAF 52	American Sign Language 2
FREN 1B	Elementary French
FREN 2A	Intermediate French
GERM 1B	Elementary German
HIST 4	Survey of Early Western Civilization
HIST 5	Survey of Modern Western Civilization
HIST 6	Asian Civilizations
HIST 7	History of African Civilizations
HIST 8	History of Islamic Civilizations
HIST 50	World Civilizations, Beginnings-1600
HIST 50H	World History I: to 1500
HIST 51	World History from 1500 to the Present.
HIST 51H	World History from 1500 to the Present
HRS 4	Exploring World Religions
HRS 10	Arts and Ideas of the West: Ancient to Medieval
HRS 11	Arts and Ideas of the West: Renaissance to Modern
HRS 70	Arts and Ideas of Asia: Ancient to Medieval
HRS 71	Arts and Ideas of Asia: Medieval to Modern
ITAL 1B	Elementary Italian
JAPN 1B	Elementary Japanese
KORN 1B	Elementary Korean 1B
PHIL 2	Ethics
PHIL 6	Introduction to Philosophy: Knowledge, World and Self
PHIL 26	History of Philosophy
PHIL 27	History of Early Modern Philosophy
POLS 10	The Meaning of Government: An Introduction to Political Ideas
PUNJ 1B	Elementary Punjabi
RUSS 1B	Elementary Russian
SPAN 1B	Elementary Spanish
WLL 15	World Literatures in Film
Upper Division	
ANTH 121	Archaeology of Mexico
ANTH 134	Japanese Culture and Society
ANTH 166	Rise of Religious Cults
ANTH/HRS 170	The Religious Landscape of the Sacramento Valley
CHDV 141	History of Childhood: International and Interdisciplinary Perspectives
CHIN 120	Chinese Civilization
ECON 112	European Economic History
EDUC 121	Multicultural Children's Literature
ETHN/WOMS 118	Asian American Women
ETHN 143	American Indians, Film and Popular Culture
ETHN 145	Native Voice, Memory, and Biography
ETHN 150	Native American Oral Tradition and Storytelling
ETHN 171	African Religions and Philosophies
FREN 120	French Civilization
GERM 140	Heroes, Dragons and Quests
GERM 141	German Mythology and Legend
GERM 142	German Folk Literature, Legend, and Lore
GERM 143	King Arthur and the Knights of the Round Table in Germany
GERM 150	German Civilization: Beginning to 16th Century
GERM 151	German Civilization: 17th Century to Present
HIST 103	Mediterranean Europe: From the Renaissance to the European Union
HIST 105	Great Ages and Issues in Modern European History
HIST 106	Everyday Life and Society in Antiquity
HIST 109	History of Modern Greece
HIST 110	The Ancient Near East: A Cultural History
HIST 111	Ancient Greece
HIST 112	Ancient Rome
HIST 113	Early Medieval Europe
HIST 116	Europe, 1648-1815, The Age of Revolution
HIST 122A	History of Women in Western Civilization, Prehistory-Middle Ages
HIST 122B	History of Women in Western Civilization, Renaissance-Present
HIST/HRS 126	Evolution of Christianity to the Reformation
HIST/HRS 127	Evolution of Christianity Since the Reformation
HIST 129A	Medieval Russia
HIST 131	History of Sexuality in Comparative Perspective
HIST 135A	History Of Mexico To 1910
HIST 142	History of Women in Africa
HIST 143A	Middle Eastern History to 1800
HIST 146A	Cultural History of Japan to 1800
HIST 146C	The History of Manga
HIST/HRS 147	History of Buddhism
HIST 148A	China: Antiquity to 1600 AD
HIST/HRS 168	Images Of America
HIST/HRS 169	Hollywood and America
HRS 113	The Culture of Classical Greece
HRS 114	The Culture of Classical Rome
HRS 117	Paganism in the Roman World
HRS 119	Classical Mythology
HRS 120	Reason and Revelation: The Origins of Western Culture
HRS 121	Introduction to the Hebrew Bible/Old Testament
HRS 122	Introduction to the New Testament
HRS 131	Medieval Culture
HRS 132	Renaissance
HRS 134	Baroque and the Enlightenment
HRS 135	Romanticism and Revolution
HRS 136	Birth Of The Modern
HRS 137	Global Crossings: Art and Culture 1945 to Present
HRS 141	Introduction To Judaism
HRS 142	Introduction to Christianity
HRS 144	Introduction To Islam
HRS 145	Introduction to Islamic Cultures
HRS 148	African Arts and Cultures

HRS 151	World Mythology
HRS 152	Great Mystics of the World
HRS 154	Food, Farming, and the Sacred
HRS 155	Spirit and Nature
HRS 161	Multicultural America
HRS 162	American Space and Identity
HRS 171	Introduction to the East Asian World
HRS 172	The Classical Culture of China
HRS 173	Chinese Philosophy and Religion
HRS 174	Modern Japanese Literature and Culture
HRS 175	Zen Buddhism and Daoism
HRS 178	Religions of India
HRS 178A	Religions of India I: The Formative Period
HRS 179A	The Hindu Year: Fall
HRS 179B	The Hindu Year: Spring
HRS 183	World Religions and Cultures in Cinema
HRS 188	Fantasy and Romance
ITAL 130	Italian Civilization: The Dialogue Form It's Origins and European Context
JAPN 120	Japanese Civilization
KINS 118A	Martial Arts: Karate
KINS 118B	Martial Arts: Tae Kwon Do
KINS 118C	Martial Arts: Tai Chi
PHIL 102	Professional and Public Service Ethics
PHIL 112	History Of Ethics
PHIL 115	Philosophy In Literature
PHIL 117	Existentialism
PHIL 122	Political Philosophy
PHIL 131	Philosophy Of Religion
PHIL 145A	Chinese Philosophy
PHIL 145B	Philosophies Of India
RUSS 120	Russian Civilization
SOC 135	Sociology of Popular Culture
SOC 160	Asian Societies
SOC 162	Middle Eastern Societies and Culture
WOMS 121	Women Of The Middle East
WOMS 145	Feminism and the Spirit
Total Units	6-18

Area D: The Individual and Society (p.) (12 Units)

Minimum of three disciplines (e.g. ANTH, ECON, ETHN, FACS, GOVT, HIST, RPTA, etc.) must be taken in Area D. The American Institutions graduation requirement may be satisfied in Area D with 3 units of US history courses and 3 units of US Constitution and CA government courses (see Graduation Requirements: American Institutions).

Code	Title	Units
Select 12 units from the following two divisions		12
Lower Division		
ANTH 2	Introduction to Cultural Anthropology	
ANTH 3	Introduction to Archaeology	
CRJ 1	Introduction to Criminal Justice and Society	
DEAF 60	Introduction to Deaf Studies	
ECON 1A	Introduction to Macroeconomic Analysis	
ECON 1B	Introduction to Microeconomic Analysis	
ETHN 10	Africa: Myths and Realities	
ETHN 11	Introduction to Ethnic Studies	
ETHN 11H	Introduction to Ethnic Studies (Honors)	
ETHN 14	Introduction to Asian American Studies	
ETHN 30	Introduction to Chicano/Latino Studies	
ETHN 53	Introduction to Native American Studies	
ETHN 70	Introduction to Pan African Studies	
GEOG 2	Cultural Geography	
FASH 30	Fashion and Human Environment	
FSHD 50	The Family and Social Issues	
HIST 15H	Major Problems in U.S. History	
HIST 17A	United States History, 1607-1877	
HIST 17B	United States History, 1877-Present	
NURS 10	Health Care: Issues and Delivery Systems	
POLS 1	Essentials Of Government	
POLS 1H	Honors Government	
POLS 35	World Politics	
PSYC 2	Introductory Psychology	
RPTA 33	Race, Class Gender and Leisure	
SOC 1	Principles of Sociology	
SOC 3	Social Problems	
SOC 10	Issues in Crime and Social Control	
WOMS 50	Introduction to Gender & Sexuality	
WOMS 75	Introduction to Disability Studies	
Upper Division		
ANTH 101	Cultural Diversity	
ANTH 102	The Nature of Culture	
ANTH 143	Culture and Society in Mexico	
ANTH 147	Peoples of Southeast Asia	
ANTH 149	Cultures of South Asia	
ANTH 183	Women Cross-Culturally	
ANTH 186	Culture and Poverty	
CHDV 145	Controversial Issues in Childhood Development, Education, and Social Policy	
COMS 152	Freedom Of Speech	
CRJ 111	Women and the Criminal Justice System	
CRJ 112	Gangs and Threat Groups in America	
CRJ 114	Sexual Offenses and Offenders	
CRJ 115	Violence and Terrorism	
CRJ 116	Restorative Justice and Conflict Resolution	
CRJ 117	American Criminal Justice and Minority Groups	
CRJ 118	Drug Abuse and Criminal Behavior	
ECON 181	Economics of Racism	
EDUC 160	Urban Education	
EDUC 165	Sex Role Stereotyping in American Education	
ENGR 105	Sustainable Design and Construction	
ENVS/HIST 165	American Environmental History	

ETHN 100	Ethnic America
ETHN 110	The Asian American Experience
ETHN 112	Contemporary Asian American Issues
ETHN 113	Asian American Communities
ETHN 114	Asian Americans and Globalization
ETHN 116	Asian American Politics and Public Policy
ETHN 122	Sikh Americans and Globalization
ETHN 130	Chicano/Mexican-American Experience
ETHN 131	La Raza Studies
ETHN 136	US Mexican Border Relations
ETHN 137	Race and Ethnicity in Latin America and Caribbean
ETHN 140	Native American Experience
ETHN/POLS 141	Politics of the African Diaspora
ETHN 142	Native American Tribal Governments
ETHN 155	Genocide and Holocaust Studies
ETHN 170	Pan African Studies
FASH 137	Clothing, Society, and Culture
FSHD 150	Family Stress and Coping: Multicultural Focus
GEOG 145	Population Geography
GEOL 140	Geology and the Environment
GERO 100	Aging Issues in Contemporary America
HIST 102A	Culture and Language in Modern Greece, 1821-1909
HIST 102B	Culture and Language in Modern Greece, 1909-Present
HIST 119	Europe Since 1945
HIST 130	The Fall Of Communism
HIST 135B	Revolutionary and Modern Mexico
HIST 136	Spanish Civil War
HIST 138A	Colonial Latin America
HIST 138B	Modern and Contemporary Latin America
HIST 141	History of Africa Since 1800
HIST 143B	The Modern Middle East
HIST 146B	Modern Japan, 1800-present
HIST 148B	China, 1600 to Present
HIST 159	History of US Foreign Relations
HIST 161	The American Vision
HIST 162	Social History of the United States
HIST 163	The City in US History
HIST 167	History of American Women
HIST 173	The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present
HIST 174A	History of Disability in the United States
HIST 175A	Sex, Population, and Birth Control in America
HIST 177	The African-American Experience, 1603-Present
HIST 178	Mexican-American History
HRS 185	Women in Film and American Culture
INTD 125	Urban Design and Society
JOUR/POLS 134	War, Peace and the Mass Media
JOUR 172	Women in the Mass Media
LBRS 100/ SOC 176	Labor and the American Social Structure
MGMT 117	Business, Ethics and Society
NURS 160	Human Sexuality
PHIL 101	Ethics and Social Issues
PHIL 103	Business and Computer Ethics
PHIL 104	Bioethics
PHIL 105	Science and Human Values
POLS 113	American Political Thought
POLS/JOUR 134	War, Peace and the Mass Media
POLS/ETHN 141	Politics of the African Diaspora
POLS 142	Government and Politics in Africa
POLS 143	Causes of War, Causes of Peace
POLS 144	European Politics
POLS 147	Latin American Government and Politics
POLS 148	Governments and Politics in the Middle East
POLS 150	American Governments
POLS 163	Introduction to Black Politics in the U.S.
POLS 165	Politics of the Underrepresented
POLS 169A	Science, Technology, and Politics
POLS 180	California State and Local Government
PSYC 135	Psychology of Multicultural Groups
PSYC 137	Stress Management
PUBH 114	Human Ecology and Health
SOC 106	Births, Deaths and Borders
SOC 118	Chicano Community
SOC 120	Ethnic and Race Relations
SOC 126	Sociology of Gender
SOC 139	Animals in Society
SOC 155	Criminology
SOC 156	Delinquency
SOC 163	Conflict, Oil and Development in the Middle East
SOC 164	Sociology of Globalization
SPAN 129	Spanish Civil War
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class
SWRK 126	Theories of Criminal Behavior
SWRK 134	Crimes Without Victims
SWRK 136	Poverty and Homelessness in America
SWRK 150	Welfare In America
SWRK 151	Health Services and Systems
SWRK 191	Exploration of Veteran Studies: An Ethnographic Approach
WOMS 110	Introduction to Women's Movements in the United States
WOMS 115	Introduction to Women's Studies
WOMS 120	Mother Woman Person
WOMS 136	Gender, Race, and Class
WOMS 137	Women Of Color
WOMS 138	Women and Work

WOMS 139	Violence Against Women
Total Units	12

Area E: Understanding Personal Development (p.) (3 Units)

Only a single one-unit KINS activity course may be applied to this area. A one-unit KINS course cannot be combined with a two-unit DNCE course to meet this requirement. KINS 99 may be taken concurrently with any 1 unit KINS activity course for a total of 3 units of Area E GE credit.

Code	Title	Units
Select one from the following:		3
ALS 21	First Year Seminar: Becoming an Educated Person	
ANTH 21	Freshman Seminar: Becoming an Educated Person	
EDUC 21	First Year Seminar: Becoming an Educated Person	
CHDV 30	Human Development	
CHDV 35	Child and Adolescent Development	
COMS 21	First Year Seminar: Becoming an Educated Person	
CRJ 21	First Year Seminar: Becoming an Educated Person	
CSC 21	First Year Seminar: Becoming an Educated Person	
DNCE 21	First Year Seminar: Becoming an Educated Person	
ENGL 21	First Year Seminar: Becoming an Educated Person	
ENVS 21	First Year Seminar: Becoming an Educated Person	
ETHN 21	First Year Seminar: Becoming an Educated Person	
FSHD 52	The Child In The Family	
GERO 21	First Year Seminar: Becoming an Educated Person	
GNST 21	First Year Seminar: Becoming an Educated Person	
HIST 21	First Year Seminar: Becoming an Educated Person	
HONR 1	First Year Seminar: Education, Self-Examination, and Living	
HRS 21	First Year Seminar: Becoming an Educated Person	
ID 21	First Year Seminar: Becoming an Educated Person	
KINS 21	First Year Seminar: Becoming an Educated Person	
MGMT 21	First Year Seminar: Becoming an Educated Person	
MUSC 21	First Year Seminar: Becoming an Educated Person	
NSM 21	First Year Seminar: Becoming an Educated Person	
NUFD 10	Nutrition And Wellness	
NURS 21	First Year Seminar: Becoming an Educated Person	
PHIL 21	First Year Seminar: Becoming an Educated Person	
PHOT 20	The Photographic Self	
PUBH 50	Healthy Lifestyles	
RPTA 21	First Year Seminar: Becoming an Educated Person	
RPTA 32	Leadership and Group Development	
RPTA 34	The Outdoor Recreation Experience	
THEA 21	First Year Seminar: Becoming an Educated Person	
WLL 21	First Year Seminar: Becoming an Educated Person	
Total Units		3

Upper Division GE Courses (Areas B, C, and D) (p.)

Code	Title	Units
Area B		
ANTH 159	Forensic Anthropology	
ASTR 131	The Solar System and Space Exploration	
ASTR 132	Stars, Galaxies and Cosmology	
BIO 105	Life in the Ocean	
BIO 109	Biology of Dinosaurs	
CHDV 143	Mind and Brain in Developmental Context	
ENVS 163	Ethnoecology	
GEOG 111	Elements Of Meteorology	
GEOG 113	Climate	
GEOG 115	Biogeography	
GEOG 116	Global Climate Change	
GEOG 119	Visualizing Global Environments	
GEOL 115	Volcanoes: An Introduction	
GEOL 130	Oceanography	
GEOL 170	Age of Dinosaurs	
HIST 104A	Ancient Science	
HIST 107	History of the Physical Sciences	
KINS 150	Exercise and Sport Physiology	
NUFD 112	Current Topics in Nutritional Sciences	
NUFD 113	Nutrition And Metabolism	
NURS 168	The Brain and Gender-Related Differences	
PHIL 125	Philosophy Of Science	
PHYS 181	Modern Physics for Everyone	
PHYS 182	Physics of Sports	
PHYS 187	Seeing the Light	
PHSC 107	History of the Physical Sciences	
WOMS 133	Gender & Health	
Area C		
ALS 151	The Studio: Explorations in Arts and Letters	
ANTH 121	Archaeology of Mexico	
ANTH 134	Japanese Culture and Society	
ANTH 166	Rise of Religious Cults	
ANTH/HRS 170	The Religious Landscape of the Sacramento Valley	
ART 111	Latin American and Latino Art History	
ART 117A	Art of India and Southeast Asia	
ART 117B	Art of China and Japan	
ASIA/HIST 140	Modern East Asian Cinema [5]	
CHDV 141	History of Childhood: International and Interdisciplinary Perspectives	
CHIN 120	Chinese Civilization	
DNCE 130	Appreciation and History of Dance	
DNCE 131	Dance Cultures Of America	
DNCE 132	African-Caribbean Dance	
ECON 112	European Economic History	
EDUC 121	Multicultural Children's Literature	
ENGL 130M	Art of Autobiography	

ENGL 140M	Modern British Drama, 1889-Present
ENGL 141A	The Essential Shakespeare
ENGL 150J	Twentieth-Century American Drama
ENGL 165D	Postcolonial Literature
ENGL 170H	Introduction To Comedy
ENGL 170I	Introduction To Tragedy
ENGL/ETHN 180A	Forms of African-American Poetry
ENGL/ETHN 180B	Forms of African-American Fiction
ENGL 180H	American Identities: In the Intersection of Race, Gender, and Ethnicity
ENGL 180J	Jewish American Literature
ENGL 180L	Chicano Literature
ENGL 180M	Asian American Literature
ENGL 180Z	Topics in Multi-Ethnic Literatures
ENGL 191A	Masterpieces of the Cinema
ENGL 185B	Twentieth Century Fiction by Women
ETHN/WOMS 118	Asian American Women
ETHN 143	American Indians, Film and Popular Culture
ETHN 145	Native Voice, Memory, and Biography
ETHN 150	Native American Oral Tradition and Storytelling
ETHN 171	African Religions and Philosophies
ETHN/ENGL 180A	Forms of African-American Poetry
ETHN/ENGL 180B	Forms African-Am Fiction
FREN 120	French Civilization
GERM 140	Heroes, Dragons and Quests
GERM 141	German Mythology and Legend
GERM 142	German Folk Literature, Legend, and Lore
GERM 143	King Arthur and the Knights of the Round Table in Germany
GERM 150	German Civilization: Beginning to 16th Century
GERM 151	German Civilization: 17th Century to Present
HIST 103	Mediterranean Europe: From the Renaissance to the European Union
HIST 105	Great Ages and Issues in Modern European History
HIST 106	Everyday Life and Society in Antiquity
HIST 109	History of Modern Greece
HIST 110	The Ancient Near East: A Cultural History
HIST 111	Ancient Greece
HIST 112	Ancient Rome
HIST 113	Early Medieval Europe
HIST 116	Europe, 1648-1815, The Age of Revolution
HIST 122A	History of Women in Western Civilization, Prehistory-Middle Ages
HIST 122B	History of Women in Western Civilization, Renaissance-Present
HIST/HRS 126	Evolution of Christianity to the Reformation
HIST/HRS 127	Evolution of Christianity Since the Reformation
HIST 129A	Medieval Russia
HIST 131	History of Sexuality in Comparative Perspective
HIST 135A	History Of Mexico To 1910
HIST/ASIA 140	Modern East Asian Cinema
HIST 142	History of Women in Africa
HIST 143A	Middle Eastern History to 1800
HIST 146A	Cultural History of Japan to 1800
HIST 146C	The History of Manga
HIST/HRS 147	History of Buddhism
HIST 148A	China: Antiquity to 1600 AD
HIST/HRS 168	Images Of America
HIST/HRS 169	Hollywood and America
HRS 113	The Culture of Classical Greece
HRS 114	The Culture of Classical Rome
HRS 117	Paganism in the Roman World
HRS 119	Classical Mythology
HRS 120	Reason and Revelation: The Origins of Western Culture
HRS 121	Introduction to the Hebrew Bible/Old Testament
HRS 121	Introduction to the Hebrew Bible/Old Testament
HRS 122	Introduction to the New Testament
HRS/HIST 126	History of Christianity to the Reformation
HRS/HIST 127	History of Christianity Since the Reformation
HRS 131	Medieval Culture
HRS 132	Renaissance
HRS 134	Baroque and the Enlightenment
HRS 135	Romanticism and Revolution
HRS 136	Birth Of The Modern
HRS 137	Global Crossings: Art and Culture 1945 to Present
HRS 141	Introduction To Judaism
HRS 142	Introduction to Christianity
HRS 144	Introduction To Islam
HRS 145	Introduction to Islamic Cultures
HRS/HIST 147	History of Buddhism
HRS 148	African Arts and Cultures
HRS 151	World Mythology
HRS 152	Great Mystics of the World
HRS 154	Food, Farming, and the Sacred
HRS 155	Spirit and Nature
HRS 161	Multicultural America
HRS 162	American Space and Identity
HRS/HIST 168	Images Of America
HRS/HIST 169	Hollywood and America
HRS/ANTH 170	The Religious Landscape of the Sacramento Valley
HRS 171	Introduction to the East Asian World
HRS 172	The Classical Culture of China
HRS 173	Chinese Philosophy and Religion
HRS 174	Modern Japanese Literature and Culture
HRS 175	Zen Buddhism and Daoism
HRS 176	The Confucian Tradition
HRS 178A	Religions of India I: The Formative Period

HRS 179A	The Hindu Year: Fall
HRS 179B	The Hindu Year: Spring
HRS 181	Contemporary Issues in Film
HRS 183	World Religions and Cultures in Cinema
HRS 188	Fantasy and Romance
ITAL 104A	Introduction to Italian Cinema I
ITAL 130	Italian Civilization: The Dialogue Form It's Origins and European Context
JAPN 120	Japanese Civilization
KINS 118A	Martial Arts: Karate
KINS 118B	Martial Arts: Tae Kwon Do
KINS 118C	Martial Arts: Tai Chi
MUSC 118B	American Popular Music: Jazz History
MUSC 118C	History of Rock Music
MUSC 118D	Hip-Hop in Urban America
MUSC 119A	World Music: Asia
MUSC 119B	World Music: Africa
MUSC 119C	World Music: Latin America
MUSC 127	The American Musical Theater
MUSC 129	American Society and Its Music
NURS 120	Nursing Application of Research and Critical Analysis
NURS 179	Professional Communication and Reasoning Development
PHIL 102	Professional and Public Service Ethics
PHIL 112	History Of Ethics
PHIL 115	Philosophy In Literature
PHIL 117	Existentialism
PHIL 122	Political Philosophy
PHIL 131	Philosophy Of Religion
PHIL 136	Philosophy Of Art
PHIL 145A	Chinese Philosophy
PHIL 145B	Philosophies Of India
RUSS 120	Russian Civilization
SOC 135	Sociology of Popular Culture
SOC 160	Asian Societies
SOC 162	Middle Eastern Societies and Culture
THEA 115A	Multicultural Puppetry
THEA 140	Black Drama in the African Diaspora
THEA/WOMS 144	Women and Theatre: Staging Diversity
THEA 170	African American Theatre and Culture
THEA 173	Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present
THEA 174	Multicultural Perspectives in American Theatre
THEA 175	Multicultural Perspectives in American Film
WOMS/ETHN 118	Asian American Women
WOMS 121	Women Of The Middle East
WOMS/THEA 144	Women and Theatre: Staging Diversity
WOMS 145	Feminism and the Spirit
WOMS 146	Women In Art

Area D

ANTH 101	Cultural Diversity
ANTH 102	The Nature of Culture
ANTH 143	Culture and Society in Mexico
ANTH 147	Peoples of Southeast Asia
ANTH 149	Cultures of South Asia
ANTH 183	Women Cross-Culturally
ANTH 186	Culture and Poverty
CHDV 145	Controversial Issues in Childhood Development, Education, and Social Policy
COMS 152	Freedom Of Speech
CRJ 111	Women and the Criminal Justice System
CRJ 112	Gangs and Threat Groups in America
CRJ 114	Sexual Offenses and Offenders
CRJ 115	Violence and Terrorism
CRJ 116	Restorative Justice and Conflict Resolution
CRJ 117	American Criminal Justice and Minority Groups
CRJ 118	Drug Abuse and Criminal Behavior
ECON 181	Economics of Racism
EDUC 160	Urban Education
EDUC 165	Sex Role Stereotyping in American Education
ENGR 105	Sustainable Design and Construction
ENVS/HIST 165	American Environmental History
ETHN 100	Ethnic America
ETHN 110	The Asian American Experience
ETHN 112	Contemporary Asian American Issues
ETHN 113	Asian American Communities
ETHN 114	Asian Americans and Globalization
ETHN 116	Asian American Politics and Public Policy
ETHN 122	Sikh Americans and Globalization
ETHN 130	Chicano/Mexican-American Experience
ETHN 131	La Raza Studies
ETHN 136	US Mexican Border Relations
ETHN 137	Race and Ethnicity in Latin America and Caribbean
ETHN 140	Native American Experience
ETHN/POLS 141	Politics of the African Diaspora
ETHN 142	Native American Tribal Governments
ETHN 155	Genocide and Holocaust Studies
ETHN 170	Pan African Studies
FSHD 150	Family Stress and Coping: Multicultural Focus
FASH 137	Clothing, Society, and Culture
GEOG 145	Population Geography
GEOL 140	Geology and the Environment
GERO 100	Aging Issues in Contemporary America
HIST 119	Europe Since 1945
HIST 130	The Fall Of Communism
HIST 135B	Revolutionary and Modern Mexico
HIST 136	Spanish Civil War
HIST 138A	Colonial Latin America

HIST 138B	Modern and Contemporary Latin America
HIST 141	History of Africa Since 1800
HIST 143B	The Modern Middle East
HIST 146B	Modern Japan, 1800-present
HIST 148B	China, 1600 to Present
HIST 159	History of US Foreign Relations
HIST 161	The American Vision
HIST 162	Social History of the United States
HIST 163	The City in US History
HIST 165	American Environmental History
HIST 167	History of American Women
HIST 173	The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present
HIST 175A	Sex, Population, and Birth Control in America
HIST 177	The African-American Experience, 1603-Present
HIST 178	Mexican-American History
PUBH 114	Human Ecology and Health
HRS 185	Women in Film and American Culture
INTD 125	Urban Design and Society
JOUR/POLS 134	War, Peace and the Mass Media
JOUR 172	Women in the Mass Media
LBRS 100/ SOC 176	Labor and the American Social Structure
MGMT 117	Business, Ethics and Society
NURS 160	Human Sexuality
PHIL 101	Ethics and Social Issues
PHIL 103	Business and Computer Ethics
PHIL 104	Bioethics
PHIL 105	Science and Human Values
POLS 113	American Political Thought
POLS/JOUR 134	War, Peace and the Mass Media
POLS/ETHN 141	Politics of the African Diaspora
POLS 142	Government and Politics in Africa
POLS 143	Causes of War, Causes of Peace
POLS 144	European Politics
POLS 147	Latin American Government and Politics
POLS 148	Governments and Politics in the Middle East
POLS 150	American Governments
POLS 163	Introduction to Black Politics in the U.S.
POLS 165	Politics of the Underrepresented
POLS 169A	Science, Technology, and Politics
POLS 180	California State and Local Government
PSYC 135	Psychology of Multicultural Groups
PSYC 137	Stress Management
SOC 106	Births, Deaths and Borders
SOC 118	Chicano Community
SOC 120	Ethnic and Race Relations
SOC 126	Sociology of Gender
SOC 139	Animals in Society
SOC 155	Criminology
SOC 156	Delinquency
SOC 163	Conflict, Oil and Development in the Middle East
SOC 164	Sociology of Globalization
SOC 176	Labor and the American Social Structure
SPAN 129	Spanish Civil War
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class
SWRK 126	Theories of Criminal Behavior
SWRK 134	Crimes Without Victims
SWRK 136	Poverty and Homelessness in America
SWRK 150	Welfare In America
SWRK 151	Health Services and Systems
SWRK 191	Exploration of Veteran Studies: An Ethnographic Approach
WOMS 110	Introduction to Women's Movements in the United States
WOMS 115	Introduction to Women's Studies
WOMS 120	Mother Woman Person
WOMS 136	Gender, Race, and Class
WOMS 137	Women Of Color
WOMS 138	Women and Work
WOMS 139	Violence Against Women

Additional Graduation Requirements (p.)

The 48-unit General Education requirement does not include the following two graduation requirements:

- Second semester composition (ENGL 20, ENGL 20M or an approved equivalent) must be completed with a grade of C- or better.
- Foreign language graduation requirement may be met by successfully completing appropriate coursework or passing proficiency exams. With a grade of "C-" or better, the following second semester or equivalent college-level language courses may satisfy both GE Area C2 units and the Foreign Language Requirement:

Code	Title	Units
CHIN 1B	Elementary Mandarin	5
DEAF 52	American Sign Language 2	4
FREN 1B	Elementary French	4
FREN 2A	Intermediate French	4
GERM 1B	Elementary German	4
ITAL 1B	Elementary Italian	4
JAPN 1B	Elementary Japanese	5
KORN 1B	Elementary Korean 1B	5
PUNJ 1B	Elementary Punjabi	4
RUSS 1B	Elementary Russian	5
SPAN 1B	Elementary Spanish	4

American Institutions (p.)

This requirement may be fulfilled by completing one Government and one US History course from the following list. The courses below also satisfy Area D units. In addition, students have the option of taking challenges in

US History, US Constitution and California State and Local Government. For details on challenges exam, please visit the Department of World Languages and Literatures website (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html).

US History

Code	Title	Units
ANTH 101	Cultural Diversity	3
HIST 15H	Major Problems in U.S. History	3
HIST 17A	United States History, 1607-1877	3
HIST 17B	United States History, 1877-Present	3
HIST 159	History of US Foreign Relations	3
HIST 161	The American Vision	3
HIST 162	Social History of the United States	3
HIST 167	History of American Women	3
HIST 177	The African-American Experience, 1603-Present	3
WOMS 110	Introduction to Women's Movements in the United States	3

US Constitution and CA Government

Code	Title	Units
POLS 1	Essentials Of Government	3
POLS 113	American Political Thought	3
POLS 150	American Governments	3

CA Government (California State and Local Government does not meet the U.S. Constitution requirement included in other government courses listed above but may be used by students who have taken a U.S. Constitution course outside of California. It fulfills the state and local government requirement only).

Code	Title	Units
POLS 180	California State and Local Government	3

Race & Ethnicity in American Society (p.) (3-unit Supervenient Requirement)

These courses also meet specific GE requirements in Areas C-E. One of these courses is required for students with catalog rights beginning Fall 1990 or later. The course may also be applied to the Area requirements.

Code	Title	Units
Lower Division		
ETHN 11	Introduction to Ethnic Studies	3
ETHN 11H	Introduction to Ethnic Studies (Honors)	3
ETHN 30	Introduction to Chicano/Latino Studies	3
FSHD 50	The Family and Social Issues	3
HIST 15H	Major Problems in U.S. History	3
HIST 17A	United States History, 1607-1877	3
HIST 17B	United States History, 1877-Present	3
Upper Division		
ANTH 101	Cultural Diversity	3
ANTH 186	Culture and Poverty	3
CHDV 145	Controversial Issues in Childhood Development, Education, and Social Policy	3
CRJ 117	American Criminal Justice and Minority Groups	3
DNCE 131	Dance Cultures Of America	3
DNCE 132	African-Caribbean Dance	3
ECON 181	Economics of Racism	3
EDUC 121	Multicultural Children's Literature	3
EDUC 160	Urban Education	3
EDUC 165	Sex Role Stereotyping in American Education	3
ENGL/ETHN 180B	Forms of African-American Fiction	3
ENGL 180H	American Identities: In the Intersection of Race, Gender, and Ethnicity	4
ENGL 180M	Asian American Literature	3
ETHN 100	Ethnic America	3
ETHN 131	La Raza Studies	3
ETHN 133	Crosscultural Aging in America	3
ETHN/POLS 141	Politics of the African Diaspora	3
FSHD 150	Family Stress and Coping: Multicultural Focus	3
HIST/HRS 168	Images Of America	3
HIST 173	The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present	3
HIST 177	The African-American Experience, 1603-Present	3
HIST 178	Mexican-American History	3
HRS 161	Multicultural America	3
KINS 118A	Martial Arts: Karate	3
KINS 118B	Martial Arts: Tae Kwon Do	3
KINS 118C	Martial Arts: Tai Chi	3
POLS 163	Introduction to Black Politics in the U.S.	3
POLS 165	Politics of the Underrepresented	3
PSYC 135	Psychology of Multicultural Groups	3
SOC 118	Chicano Community	3
SOC 120	Ethnic and Race Relations	3
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class	3
THEA 115A	Multicultural Puppetry	3
THEA/WOMS 144	Women and Theatre: Staging Diversity	3
THEA 174	Multicultural Perspectives in American Theatre	3
THEA 175	Multicultural Perspectives in American Film	3
WOMS 136	Gender, Race, and Class	3
WOMS 137	Women Of Color	3

Writing Intensive (p.) (3-unit Supervenient Requirement)

One Writing Intensive course, i.e., a course with comprehensive writing assignments (minimum 5,000 words) is required. This requirement may be met either with a specifically marked GE courses or, in certain majors, with a course required for the major. (Writing Intensive courses taken to meet major requirements do not apply to the nine-unit upper division requirement in GE.) Prerequisite: Completion of GE Areas A2, A3, second semester composition (ENGL 20), junior standing, and ENGL 109M/ ENGL 109W. Students who take the WPJ instead of initially taking ENGL 109M/ ENGL 109W must score 70, 71, or 80. Students with a lower WPJ score will have to complete other

prerequisites determined by their score. Successful completion of the writing intensive course with a grade of C- or better certifies the Graduation Writing Assessment Requirement (GWAR).

Code	Title	Units
ANTH 102	The Nature of Culture	3
ANTH/HRS 170	The Religious Landscape of the Sacramento Valley	3
ANTH 186	Culture and Poverty	3
ART 111	Latin American and Latino Art History	3
ASIA/HIST 140	Modern East Asian Cinema	3
ASTR 131	The Solar System and Space Exploration	3
ASTR 132	Stars, Galaxies and Cosmology	3
COMS 100B	Rhetoric and Social Influence	3
CHDV 145	Controversial Issues in Childhood Development, Education, and Social Policy	3
CRJ 190	Contemporary Issues in Criminal Justice	3
EDUC 121	Multicultural Children's Literature	3
EDUC 160	Urban Education	3
EDUC 165	Sex Role Stereotyping in American Education	3
ENGL 100Z	Topics in Literary Theory and Criticism	4
ENGL 120C	Topics in Composition	4
ENGL 120P	Professional Writing	4
ENGL 120R	Topics in Rhetoric	4
ENGL 130M	Art of Autobiography	4
ENGL 140M	Modern British Drama, 1889-Present	4
ENGL 141A	The Essential Shakespeare	4
ENGL 150B	American Romanticism	3
ENGL 165D	Postcolonial Literature	4
ENGL 170H	Introduction To Comedy	3
ENGL 170I	Introduction To Tragedy	3
ENGL/ETHN 180A	Forms of African-American Poetry	4
ENGL/ETHN 180B	Forms of African-American Fiction	3
ENGL 180L	Chicano Literature	4
ENGL 180M	Asian American Literature	3
ENGL 185B	Twentieth Century Fiction by Women	4
ENVS 112	International Environmental Problems	3
ETHN 100	Ethnic America	3
ETHN 145	Native Voice, Memory, and Biography	3
FSHD 150	Family Stress and Coping: Multicultural Focus	3
GEOG 190	Senior Research Seminar in Geography	3
GEOL 140	Geology and the Environment	3
HIST 105	Great Ages and Issues in Modern European History	3
HIST 106	Everyday Life and Society in Antiquity	3
HIST 122A	History of Women in Western Civilization, Prehistory-Middle Ages	3
HIST 122B	History of Women in Western Civilization, Renaissance-Present	3
HIST/HRS 168	Images Of America	3
HRS 120	Reason and Revelation: The Origins of Western Culture	3
HRS 132	Renaissance	3
JOUR 135	Public Affairs Reporting	3
KINS 133	Integration of Concepts	3
LBRS 100/ SOC 176	Labor and the American Social Structure	3
MGMT 117	Business, Ethics and Society	3
MUSC 110	Research in Music History	3
MUSC 127	The American Musical Theater	3
MUSC 129	American Society and Its Music	3
NUFD 112	Current Topics in Nutritional Sciences	3
NURS 120	Nursing Application of Research and Critical Analysis	3
NURS 179	Professional Communication and Reasoning Development	3
PHIL 101	Ethics and Social Issues	3
PHIL 105	Science and Human Values	3
PHIL 112	History Of Ethics	3
PHIL 115	Philosophy In Literature	3
PHIL 117	Existentialism	3
PHIL 145A	Chinese Philosophy	3
PHIL 145B	Philosophies Of India	3
POLS 165	Politics of the Underrepresented	3
RPTA 122	Perspectives On Leisure	3
SOC 133	Sport in a Global Perspective	3
SOC 168	Self and Society	3
SWRK 126	Theories of Criminal Behavior	3
SWRK 191	Exploration of Veteran Studies: An Ethnographic Approach	3
THEA 170	African American Theatre and Culture	3
WOMS 136	Gender, Race, and Class	3
WOMS 138	Women and Work	3

General Education Policies

- All upper division GE courses require at least second semester sophomore standing (45 units) and completion of all GE Area A courses as prerequisites.
- At least 9 units must be chosen from upper division GE courses (100-199) and at least 9 units must be taken in residence at Sacramento State (these units may overlap).
- Each course taken to satisfy the Area A Basic Subjects and Area B4 Quantitative Reasoning must be completed with a grade of “C-” or higher.
- A 2.0 cumulative GPA is required in General Education.

Overlap Between General Education and Majors/Minors (Fall 1992 - Spring 2013)

General Education requirements include five areas (A-E) in which you must take courses (area requirements), a nine-unit upper division requirement, a Race and Ethnicity requirement, and a Writing Intensive requirement. The overlap possibilities among these four aspects of General Education are outlined below. Students needing help applying

these overlap policies are encouraged to seek advising through their College Advising Centers or through an advisor in the Academic Advising Center, Lassen Hall 1012.

1. A maximum of nine units of coursework from your major department may also be applied to the General Education requirements.
2. The Race and Ethnicity requirement can be met with an upper or lower division course from a student's major or major department. Example: A Social Work major can use SWRK 102 to meet the Race and Ethnicity requirement.
3. The Writing Intensive requirement can be met with a course from the major or major department in specified majors, but not in all majors.
4. There is no restriction on the overlap of courses between GE and minor requirements*

Note: For Business Administration majors, substitute "College of Business" for "major department." For Social Science majors, substitute "History" for "major department."

Overlap Between General Education and Majors/Minors (Fall 2013 and Later)

General Education requirements include five areas (A-E) in which you must take courses (area requirements), a nine-unit upper division requirement, a Race and Ethnicity requirement, and a Writing Intensive requirement. The overlap possibilities among these four aspects of General Education are outlined below. Students needing help applying these overlap policies are encouraged to seek advising through their College Advising Centers or through an advisor in the Academic Advising Center, Lassen Hall 1012.

1. There is no university restriction on the overlap of courses between GE and coursework approved for GE from your major department.
2. The Race and Ethnicity requirement can be met with an upper or lower division course from a student's major or major department. Example: A Social Work major can use SWRK 102 to meet the Race and Ethnicity requirement.
3. The Writing Intensive requirement can be met with a course from the major or major department in specified majors, but not in all majors.
4. There is no restriction on the overlap of courses between GE and minor requirements

Transfer Students

Transfer students who have completed lower division General Education requirements at a California Community College, including those certified under the Intersegmental General Education Transfer Core Curriculum (IGETC), and/or those in receipt of an Associate Degree for Transfer (ADT), are required to complete 9 units of upper division GE at Sacramento State, meet the foreign language proficiency graduation requirement, meet the state "code" requirements in U.S. History, American and California Government, and the writing intensive requirement. These 9 units may or may not include the writing intensive requirement, depending on the policy of the student's major department. Students who have not completed an approved course for the 'Race and Ethnicity in American Society' category at a community college must take a course in this category at Sacramento State. In addition, all transfer students, except those fully certified as having completed the IGETC core curriculum, must complete the required second semester writing course or an approved course at a community college.

Note: Foreign Language Proficiency Requirement - If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or higher required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here (http://www.csus.edu/wll/for-students/graduation-requirement.html%E2%80%8B/).

For more information about IGETC requirements and/or Associate Degrees for Transfer, contact your community college counselor.

Certificate in Global and Multicultural Perspectives

Units required for Certificate: 12

Program Description

Total Units: 12 units minimum—9 of which must be upper division.
All courses in Section A and B are also approved for General Education.

All courses and petitions for substitution will be approved by the Office of Undergraduate Studies and will reflect the criteria and learning outcomes of the Certificate Program.

Program Requirements

Code	Title	Units
Global and Multicultural Perspectives on Contemporary Society (3-6 Units)		
Select 3-6 upper division units from the following:		3 - 6
From Area B5:		
GEOG 116	Global Climate Change	
From Area D:		
ANTH 101	Cultural Diversity	
ANTH 102	The Nature of Culture	
ANTH 143	Culture and Society in Mexico	
ANTH 147	Peoples of Southeast Asia	
ANTH 149	Cultures of South Asia	
ANTH 183	Women Cross-Culturally	
ANTH 186	Culture and Poverty	
ETHN 136	US Mexican Border Relations	
ETHN 137	Race and Ethnicity in Latin America and Caribbean	
ETHN/GOVT 141	Politics of the African Diaspora	
ETHN 142	Native American Tribal Governments	
ETHN 155	Genocide and Holocaust Studies	
ETHN 170	Pan African Studies	
GEOG 145	Population Geography	
GEOL 140	Geology and the Environment	
GOVT/JOUR 134		
GOVT 142		
GOVT 143		
GOVT 144		
GOVT 147		
GOVT 148		
HIST 119	Europe Since 1945	
HIST 130	The Fall Of Communism	

HIST 135B	Revolutionary and Modern Mexico
HIST 138A	Colonial Latin America
HIST 138B	Modern and Contemporary Latin America
HIST 143B	The Modern Middle East
HIST 146B	Modern Japan, 1800-present
SOC 163	Conflict, Oil and Development in the Middle East
SOC 164	Sociology of Globalization
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class
WOMS 110	Introduction to Women's Movements in the United States
From GE Honors:	
HONR 101	Science and the Public Good
HONR 103	Civic Engagement, Service Learning: Pursuing the Public Good
Global and Multicultural Perspectives on Arts and Humanities (3-6 Units)	
Select 3-6 units from the following:	3 - 6
From Area C1 (Arts):	
ART 111	Latin American and Latino Art History
ART 117A	Art of India and Southeast Asia
ART 117B	Art of China and Japan
ASIA/HIST 140	Modern East Asian Cinema
DNCE 130	Appreciation and History of Dance
DNCE 131	Dance Cultures Of America
DNCE 132	African-Caribbean Dance
ENGL 191A	Masterpieces of the Cinema
HRS 180	The Film
HRS 181	Contemporary Issues in Film
ITAL 104A	Introduction to Italian Cinema I
MUSC 119A	World Music: Asia
MUSC 119B	World Music: Africa
MUSC 119C	World Music: Latin America
THEA 115A	Multicultural Puppetry
THEA 140	Black Drama in the African Diaspora
THEA/WOMS 144	Women and Theatre: Staging Diversity
From Area C2 (Humanities):	
ANTH 121	Archaeology of Mexico
ANTH 134	Japanese Culture and Society
CHDV 141	History of Childhood: International and Interdisciplinary Perspectives
CHIN 120	Chinese Civilization
ECON 112	European Economic History
EDUC 121	Multicultural Children's Literature
ENGL 165D	Postcolonial Literature
ENGL 180Z	Topics in Multi-Ethnic Literatures
ENGL 185B	Twentieth Century Fiction by Women
ETHN 171	African Religions and Philosophies
FREN 120	French Civilization
GERM 140	Heroes, Dragons and Quests
GERM 141	German Mythology and Legend
GERM 142	German Folk Literature, Legend, and Lore
GERM 143	King Arthur and the Knights of the Round Table in Germany
GERM 150	German Civilization: Beginning to 16th Century
GERM 151	German Civilization: 17th Century to Present
HIST 103	Mediterranean Europe: From the Renaissance to the European Union
HIST 105	Great Ages and Issues in Modern European History
HIST 106	Everyday Life and Society in Antiquity
HIST 110	The Ancient Near East: A Cultural History
HIST 111	Ancient Greece
HIST 112	Ancient Rome
HIST 113	Early Medieval Europe
HIST 122A	History of Women in Western Civilization, Prehistory-Middle Ages
HIST 122B	History of Women in Western Civilization, Renaissance-Present
HIST 142	History of Women in Africa
HIST 143A	Middle Eastern History to 1800
HIST 146A	Cultural History of Japan to 1800
HIST 146C	The History of Manga
HIST/HRS 147	History of Buddhism
HIST 148A	China: Antiquity to 1600 AD
HRS 136	Birth Of The Modern
HRS 137	Global Crossings: Art and Culture 1945 to Present
HRS 140	
HRS 145	Introduction to Islamic Cultures
HRS 148	African Arts and Cultures
HRS 151	World Mythology
HRS 152	Great Mystics of the World
HRS 171	Introduction to the East Asian World
HRS 172	The Classical Culture of China
HRS 173	Chinese Philosophy and Religion
HRS 174	Modern Japanese Literature and Culture
HRS 183	World Religions and Cultures in Cinema
HRS 188	Fantasy and Romance
ITAL 130	Italian Civilization: The Dialogue Form It's Origins and European Context
PHIL 145A	Chinese Philosophy
PHIL 145B	Philosophies Of India
RUSS 120	Russian Civilization
SOC 135	Sociology of Popular Culture
SOC 160	Asian Societies
SOC 162	Middle Eastern Societies and Culture
WOMS 121	Women Of The Middle East
From GE Honors:	
HONR 102	The Public Good Through the Visual and Performing Arts
Global and Multicultural Perspectives in the Discipline (3 Units)	
Select 3 units [1]	3
Total Units	9-15

[1] 3 units may be lower or upper division. Courses to be selected in consultation with major advisor

General Education (Prior to Fall 2018)

One of the principles on which a modern university rests is the assumption that there is an important difference between learning to make a living and building the foundation for a life. While the first goal is important, the second is fundamental.

In focusing on the students' development as whole or "educated" people, a university distinguishes itself from a trade school. The goal of a university education is not simply the acquisition and application of knowledge, but the creation of people who firmly grasp the worth of clear thinking and know how to do it; who understand and appreciate the differences between peoples and cultures as well as their similarities; who have a sense of history and social forces; who can express thought clearly and have quantitative ability; who know something about the arts as well as how to enjoy them; who can talk and think intelligently about the physical and life sciences, the humanities, and literature; and, above all, who have the desire and capability for learning. This goal is why a university degree is so highly valued by individuals, employers, and the community at large.

The Sacramento State General Education Program is designed to educate in this holistic sense. Thus, it is not simply a series of courses to complete or hoops for students to jump through as they complete the courses in their major. Rather, general education lies at the heart of what a university education is all about.

Therefore students should carefully select courses and actively seek subject areas that are new and may challenge their world views or cherished assumptions and offer new experiences, such as inquiry-based or community-based learning. In short, students should not take the easy way out. This is their opportunity to lay the foundation for the rest of their lives, and to define themselves as educated members of the human community. Their time at the university is precious and the General Education Program has been designed to help them begin the process of becoming truly educated people. In deciding to pursue a university degree, they have chosen well and should make the best use of the opportunities open to them.

Objectives

Upon completion of the General Education Program requirements, students will be expected to:

- read, write, and understand relatively complex and sophisticated English prose;
- construct a non-fallacious verbal argument, recognize fallacious arguments, and follow the verbal arguments of others;
- find and use common information resources, engage in specialized library research, use computers, and seek out appropriate expert opinion and advice;
- use mathematical ideas to accomplish a variety of tasks;
- gain a general understanding of current theory, concepts, knowledge, and scientific methods pertaining to the nature of the physical universe, ecosystems, and life on this planet;
- develop an acquaintance and understanding of cultures and major dynamic social institutions which affect one's life,
- possess a significant and useful understanding of peoples from a diversity of cultures and backgrounds, including women and ethnic and other minority groups who have been the objects of prejudice and adverse discrimination within our society.

In addition to these basic skills, courses in the sciences, arts, humanities, and social sciences have been selected to help students attain the university's baccalaureate learning goals and to satisfy particular GE Area Learning Outcomes. The Baccalaureate Learning Goals include:

- **Competence in the Disciplines**: The ability to demonstrate the competencies and values listed below in at least one major field of study and to demonstrate informed understandings of other fields, drawing on the knowledge and skills of disciplines outside the major.
- **Knowledge of Human Cultures and the Physical and Natural World** through study in the sciences and mathematics, social sciences, humanities, histories, languages, and the arts. Focused by engagement with big questions, contemporary and enduring.
- **Intellectual and Practical Skills, Including**: inquiry and analysis, critical, philosophical, and creative thinking, written and oral communication, quantitative literacy, information literacy, teamwork and problem solving, practiced extensively across the curriculum, in the context of progressively more challenging problems, projects, and standards for performance.
- **Personal and Social Responsibility, Including**: civic knowledge and engagement—local and global, intercultural knowledge and competence[1], ethical reasoning and action, foundations and skills for lifelong learning anchored through active involvement with diverse communities and real-world challenges.
- **Integrative Learning[2], Including**: synthesis and advanced accomplishment across general and specialized studies.

[1] Understanding of and respect for those who are different from oneself and the ability to work collaboratively with those who come from diverse cultural backgrounds.

[2] Interdisciplinary learning, learning communities, capstone or senior studies in the General Education program and/or in the major connecting learning goals with the content and practices of the educational programs including GE, departmental majors, the co-curriculum and assessments.

Sacramento State General Education courses are designed, selected, and approved by the faculty to meet these program objectives. Students will benefit from consultation with the Academic Advising Center or advisors in their major departments in planning their General Education course choices. Students may search the online Schedule of Classes by Area or other specification(s) for currently available GE courses.

Course Requirements

The following courses have been approved to meet the 48-unit General Education pattern required of Sacramento State students. At least **9 units must be in upper division GE courses (100-199)** taken after you complete 60 units of coursework. Enrollment in upper division GE courses is limited to students who have completed Areas A1, A2, A3, and have taken at least 45 units (not limited to GE classes). At least nine units of GE must be taken in residence (i.e., at Sacramento State). In addition, a second semester composition course and demonstration of proficiency in a foreign language are required for graduation.

General Education/Graduation Requirements Checklist

Download the checklist (http://csus.edu/acaf/ge/pdf%20files/ge_worksheet_summer2016-sac%20state.pdf)

General Education Requirements	Units
General Education requirements cover a breadth of areas spanning A. Basic Subjects, B. Physical Universe & Its Life Forms, C. Arts & Humanities, D. The Individual and Society, and E. Understanding Personal Development. For a list of courses that satisfy each Area and Requirement, please see the University Catalog.	
General Education Requirements: (9 units must be taken at Sacramento State)	**48**
Lower Division: A total of 39 units of General Education Courses must be taken at the lower-division level (courses numbered 1-99) covering Areas A, B, C, D, and E.	**39**
Upper Division: A total of 9 units of General Education Courses must be taken at the upper-division level (courses numbered 100-199) from Areas B, C, D, or E. These units should be completed within the total unit requirements for Areas B, C, D, or E.	**9**
Basic Subjects	**9**
A1. Oral Communication 'C- or better required'	3
A2. Written Communication 'C- or better required'	3
A3. Critical Thinking 'C- or better required'	3
Physical Universe & Its Life Forms	**12**
B1. Physical Science	3
B2. Life Forms	3
B3. Lab **NOTE:** Lab experience to be taken with one of the following: B1, B2 or B5.	
B4. Math Concepts 'C- or better required'	3
B5. Additional Course (Any B to reach 12 units) - Note: Possible upper-division course to complete Area & upper-division requirements.	3
Arts & Humanities	12
C1. Arts	3
C2. Humanities	3
C1/C2. Any Area Course C. - **Note: recommended (if needed): 6 units of the Foreign Language requirement in C2 which double-counts for the Foreign Language proficiency requirement.**	3
C1/C2. Any Area C Course - Note: Possible upper-division course to complete Area & upper-division requirements.	3
*The Individual & Society - Minimum of THREE disciplines (e.g. ANTH, ECON, ETHN, GOVT, HIST, RPTA, etc.) must be taken in Area D	**12**
D. Any Area D Course	3
D. Any Area D Course - Note: possible upper-division course to complete Area & upper-division requirements.	3
D. Any Area D Course - Note: Recommend a U.S. History course which double-counts for the American Institutions Graduation Requirement.	3
D. Any Area D Course - Note: Recommend a U.S. Constitution and CA Government course which double-counts for the American Institutions Graduation Requirement.	3
Understanding Personal Development	**3**
E. Any Area E course - Note: Possible upper-division course to complete Area & upper-division requirements.	3

Graduation Requirements	Units
Minimum 2.0 GPA required for GE	
Graduation Requirements (required by CSU)	
American Institutions: U.S. History - The following courses satisfy the **U.S. History** Graduation Requirement and Area D: HIST 17A, HIST 17B, HIST 159, HIST 161, HIST 162, HIST 167, HIST 177, ANTH 101	3
American Institutions: U.S. Constitution & CA Government - The following satisfy the **U.S. Constitution & CA Government** graduation requirement Area D: GOVT 1, GOVT 113, GOVT 150	3
Writing Intensive (WI) - May satisfy Upper Division General Education or Major 'C- or better required'	3
Graduation Requirements (required by CA State University, Sacramento)	

English Composition II: ENGL 20 'C- or better required'	3
Race and Ethnicity in American Society (RE) - May double-count for unit requirements in General Education Areas C, D, or E	3
Foreign Language Proficiency Requirement - If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: http://www.csus.edu/wll/for-students/graduation-requirement.html.	6

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). There is no way to list all possible overlaps so please complete this checklist with a professional advisor. We can help you identify the best course of action. Academic Advising Center can be visited **csus.edu/acad** or please call: (916) 278-1000 or email at **advising@csus.edu**.

Students must choose their General Education classes from the Areas and classes listed below:

Area A: Basic Subjects (p.) (9 units)

These requirements must be completed before enrollment in upper division GE courses. A grade of 'C-' or better is required in all courses taken in Area A.

Code	Title	Units
A1: Oral Communication		**3**
Select one of the following:		
COMS 4	Introduction to Public Speaking	
COMS 5	The Communication Experience	
A2: Written Communication		**3**
Select one of the following:		
ENGL 5	Accelerated Academic Literacies	
ENGL 5M	Accelerated Academic Literacies - Multilingual	
ENGL 11	Academic Literacies II	
ENGL 11M	Academic Literacies II-Multilingual	
A3: Critical Thinking		**3**
Select one of the following:		
ANTH 4	Language, Culture, and Critical Thinking	
COMS 2	Argumentation	
EDUC 10	Critical Thinking and the Educated Person	
EDUC 10H	Critical Thinking and the Educated Person: Honors	
ENVS 11	Environmental Issues and Critical Thinking	
JOUR 50	Media Literacy and Critical Thinking	
PHIL 4	Critical Thinking	
PHYS 30	Science and Pseudoscience	
SOC 8	Sense and Nonsense in Social Issues and Research	
Total Units		9

Area B: The Physical Universe and Its Life Forms (p.) (12 Units)

At least 3 units must be taken in each of Areas B1, B2 and B4. At least one course with a laboratory component must be taken in Area B1 or B2.

Code	Title	Units
AREA B1: PHYSICAL SCIENCE		**3**
Select one of the following:		
ASTR 4A	Introduction to the Solar System	
ASTR 4B	Introduction to Stars, Galaxies, and Cosmology	
ASTR 4C	Introduction to Astrobiology	
ASTR 6	Astronomical Observation Laboratory	
CHEM 1A	General Chemistry I	
CHEM 5 Chemistry for Nurses		
CHEM 6A	Introduction to General Chemistry	
GEOG 1	Physical Geography: The Distribution of Natural Phenomena	
GEOG 5	Violent Weather/Changing Atmosphere	
GEOG 11	Laboratory in Physical Geography	
GEOL 5	Geology Of Mexico	
GEOL 7	Natural Disasters	
GEOL 8	Earth Science	
GEOL 8L	Earth Science Lab	
GEOL 10	Physical Geology	
GEOL 10L	Physical Geology Lab	
PHYS 5A	General Physics: Mechanics, Heat, Sound	
PHYS 10	Physics In Our World	
PHYS 11A	General Physics: Mechanics	
AREA B2: LIFE FORMS		**3**
Select one of the following:		
ANTH 1	Introduction to Biological Anthropology	
ANTH 1A	Biological Anthropology Laboratory	
BIO 1	Biodiversity, Evolution and Ecology	
BIO 7	Introduction to the Science of Biology	
BIO 9	Our Living World: Evolution, Ecology and Behavior	
BIO 10	Basic Biological Concepts	
BIO 15L	Laboratory Investigations in Biology	
BIO 20	Biology: A Human Perspective	
ENVS 10	Introduction to Environmental Science	
ENVS 10H	Honors Environmental Science	
AREA B3: LAB		
Select a course from the following:		
ASTR 6	Astronomical Observation Laboratory	
ANTH 1A	Biological Anthropology Laboratory	
BIO 1	Biodiversity, Evolution and Ecology	
BIO 15L	Laboratory Investigations in Biology	
CHEM 1A	General Chemistry I	
CHEM 1B	General Chemistry II	
CHEM 5 Chemistry for Nurses		

CHEM 6A	Introduction to General Chemistry	
CHEM 6B	Introduction to Organic and Biological Chemistry	
GEOG 11	Laboratory in Physical Geography	
GEOL 5	Geology Of Mexico	
GEOL 8L	Earth Science Lab	
GEOL 10L	Physical Geology Lab	
KINS 150	Exercise and Sport Physiology	
PHYS 5A	General Physics: Mechanics, Heat, Sound	
PHYS 11A	General Physics: Mechanics	
AREA B4: MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING [1]		**3**
Select one of the following:		
MATH 1	Mathematical Reasoning	
MATH 15H	Honors Mathematical Reasoning	
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics	
MATH 24	Modern Business Mathematics	
MATH 26A	Calculus I for the Social and Life Sciences	
MATH 26B	Calculus II for the Social and Life Sciences	
MATH 29	Pre-Calculus Mathematics	
MATH 30	Calculus I	
MATH 31	Calculus II	
MATH 35	Introduction to Linear Algebra	
STAT 1	Introduction to Statistics	
STAT 10A & STAT 10B	Introductory Statistics with Developmental Mathematics Introductory Statistics with Developmental Mathematics	
STAT 50	Introduction to Probability and Statistics	
AREA B5: FURTHER STUDIES IN PHYSICAL SCIENCE, LIFE FORMS, AND QUANTITATIVE REASONING [2]		**3**
Select one from the following two categories:		
Lower Division		
ANTH 15 World Prehistory and the Evolution of Modern Humanity		
ANTH 17		
CHEM 1B	General Chemistry II	
CHEM 6B	Introduction to Organic and Biological Chemistry	
CSC 1	Introduction to Computer Science	
CSC 10	Introduction to Programming Logic	
EDUC 18	Mathematical Practices Across Cultures	
GEOL 12	Historical Geology	
PHIL 60	Deductive Logic I	
Upper Division		
ASTR 131	The Solar System and Space Exploration	
ASTR 132	Stars, Galaxies and Cosmology	
CHDV 143	Mind and Brain in Developmental Context	
FACS 112 Current Topics in Nutritional Sciences		
FACS 113 Nutrition and Metabolism		
GEOG 111	Elements Of Meteorology	
GEOG 113	Climate	
GEOG 115	Biogeography	
GEOG 116	Global Climate Change	
GEOL 130	Oceanography	
HIST/PHSC 107	History of the Physical Sciences	
KINS 150	Exercise and Sport Physiology	
NURS 168	The Brain and Gender-Related Differences	
PHIL 125	Philosophy Of Science	
Total Units		12

[1] Completion of the ELM (unless exempt) is a prerequisite for courses in this Area. In addition, passage of course-based diagnostic exams is required. A grade of 'C-' or better is required in all courses taken in Area B4.

[2] Choose a course from this area or another from B1, B2, or B4 to total 12 units in Area B

Area C: The Arts and Humanities (p.) (12 Units)

At least 3 units must be taken from Areas C1 (ARTS) and C2 (HUMANITIES).

Code	Title	Units
AREA C1: ARTS		**3 - 9**
Select 3-9 units from the following two divisions:		
Lower Division		
ART 1A	Art, Religions, and Power before 1400	
ART 1B	Art in the Western World: From Renaissance to Baroque	
ART 1C	Global Modern and Contemporary Art	
ART 2	History of Islamic Art	
ART 3A	Traditional Asian Art	
ART 3B	Modern and Contemporary Asian Art	
ART 5	Art of the Americas	
ART 7	Introduction to Art and Visual Culture	
ART 20A	Beginning Drawing	
ART 22	Beginning Painting	
ART 24	Beginning Watercolor	
ART 70	Form, Space Vision	
ART 74	Beginning Jewelry	
ART 75	Beginning Metalsmithing	
ART 86	Clay Sculpture	
ART 88	Beginning Sculpture	
GPHD 5	Introduction to Graphic Design	
GPHD 20	History Of Graphic Design	
INTD 15	Introduction to Interior Design	
INTD 20	Design	
MUSC 8	Basic Music	
MUSC 9	Music In World Cultures	
MUSC 10A	Survey of Music Literature I	
MUSC 10B	Survey of Music Literature II	
MUSC 18	Music Appreciation	
PHOT 11	Digital Imaging	
THEA 1	Introduction To Theatre	
THEA 2	History of the Theatre: Ancient to Renaissance	
THEA 3	Theatre History After 1660	

THEA 5	Aesthetics of Theatre and Film
THEA 9	Appreciation Of Acting
Upper Division	
ALS 151	The Studio: Explorations in Arts and Letters
ART 111	Latin American and Latino Art History
ART 117A	Art of India and Southeast Asia
ART 117B	Art of China and Japan
ASIA/HIST 140	Modern East Asian Cinema
DNCE 130	Appreciation and History of Dance
DNCE 131	Dance Cultures Of America
DNCE 132	African-Caribbean Dance
ENGL 130M	Art of Autobiography
ENGL 140M	Modern British Drama, 1889-Present
ENGL 141A	The Essential Shakespeare
ENGL 150J	Twentieth-Century American Drama
ENGL 191A	Masterpieces of the Cinema
HRS 180	The Film
HRS 181	Contemporary Issues in Film
ITAL 104A	Introduction to Italian Cinema I
MUSC 118B	American Popular Music: Jazz History
MUSC 118C	History of Rock Music
MUSC 118D	Hip-Hop in Urban America
MUSC 119A	World Music: Asia
MUSC 119B	World Music: Africa
MUSC 119C	World Music: Latin America
MUSC 127	The American Musical Theater
MUSC 129	American Society and Its Music
PHIL 136	Philosophy Of Art
THEA 115A	Multicultural Puppetry
THEA 140	Black Drama in the African Diaspora
THEA/WOMS 144	Women and Theatre: Staging Diversity
THEA 170	African American Theatre and Culture
THEA 173	Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present
THEA 174	Multicultural Perspectives in American Theatre
THEA 175	Multicultural Perspectives in American Film
WOMS 146	Women In Art
AREA C2: HUMANITIES	**3 - 9**
Select 3-9 units from the following two divisions	
Lower Division	
ANTH 13	Magic, Witchcraft and Religion
ANTH 16	Comparative Early Civilizations
CHIN 1B	Elementary Mandarin
DEAF 52	American Sign Language 2
ENGL 40A	Introduction to British Literature I
ENGL 40B	Introduction to British Literature II
ENGL 50A	Introduction to American Literature I
ENGL 50B	Introduction to American Literature II
ENGL 65	Introduction to World Literatures in English
ENGL 90A	Modern Short Plays
FREN 1B	Elementary French
FREN 2A	Intermediate French
GERM 1B	Elementary German
GOVT 10	
HIST 4	Survey of Early Western Civilization
HIST 5	Survey of Modern Western Civilization
HIST 6	Asian Civilizations
HIST 7	History of African Civilizations
HIST 8	History of Islamic Civilizations
HIST 50	World Civilizations, Beginnings-1600
HIST 50H	World History I: to 1500
HIST 51	World History from 1500 to the Present.
HIST 51H	World History from 1500 to the Present
HRS 10	Arts and Ideas of the West: Ancient to Medieval
HRS 11	Arts and Ideas of the West: Renaissance to Modern
HRS 70	Arts and Ideas of Asia: Ancient to Medieval
HRS 71	Arts and Ideas of Asia: Medieval to Modern
ITAL 1B	Elementary Italian
JAPN 1B	Elementary Japanese
KORN 1B	Elementary Korean 1B
PHIL 2	Ethics
PHIL 6	Introduction to Philosophy: Knowledge, World and Self
PHIL 26	History of Philosophy
PHIL 27	History of Early Modern Philosophy
PUNJ 1B	Elementary Punjabi
RUSS 1B	Elementary Russian
SPAN 1B	Elementary Spanish
WLL 15	World Literatures in Film
Upper Division	
ANTH 121	Archaeology of Mexico
ANTH 134	Japanese Culture and Society
ANTH 166	Rise of Religious Cults
ANTH/HRS 170	The Religious Landscape of the Sacramento Valley
CHDV 141	History of Childhood: International and Interdisciplinary Perspectives
CHIN 120	Chinese Civilization
ECON 112	European Economic History
EDUC 121	Multicultural Children's Literature
ENGL 165D	Postcolonial Literature
ENGL 170H	Introduction To Comedy
ENGL 170I	Introduction To Tragedy
ENGL/ETHN 180A	Forms of African-American Poetry
ENGL/ETHN 180B	Forms of African-American Fiction
ENGL 180H	American Identities: In the Intersection of Race, Gender, and Ethnicity
ENGL 180J	Jewish American Literature
ENGL 180L	Chicano Literature
ENGL 180M	Asian American Literature

ENGL 180Z	Topics in Multi-Ethnic Literatures
ENGL 185B	Twentieth Century Fiction by Women
ETHN/WOMS 118	Asian American Women
ETHN 143	American Indians, Film and Popular Culture
ETHN 145	Native Voice, Memory, and Biography
ETHN 150	Native American Oral Tradition and Storytelling
ETHN 171	African Religions and Philosophies
FREN 120	French Civilization
GERM 140	Heroes, Dragons and Quests
GERM 141	German Mythology and Legend
GERM 142	German Folk Literature, Legend, and Lore
GERM 143	King Arthur and the Knights of the Round Table in Germany
GERM 150	German Civilization: Beginning to 16th Century
GERM 151	German Civilization: 17th Century to Present
HIST 103	Mediterranean Europe: From the Renaissance to the European Union
HIST 105	Great Ages and Issues in Modern European History
HIST 106	Everyday Life and Society in Antiquity
HIST 110	The Ancient Near East: A Cultural History
HIST 111	Ancient Greece
HIST 112	Ancient Rome
HIST 113	Early Medieval Europe
HIST 122A	History of Women in Western Civilization, Prehistory-Middle Ages
HIST 122B	History of Women in Western Civilization, Renaissance-Present
HIST/HRS 126	Evolution of Christianity to the Reformation
HIST/HRS 127	Evolution of Christianity Since the Reformation
HIST 129A	Medieval Russia
HIST 135A	History Of Mexico To 1910
HIST 142	History of Women in Africa
HIST 143A	Middle Eastern History to 1800
HIST 146A	Cultural History of Japan to 1800
HIST 146C	The History of Manga
HIST/HRS 147	History of Buddhism
HIST 148A	China: Antiquity to 1600 AD
HIST/HRS 168	Images Of America
HIST/HRS 169	Hollywood and America
HIST 170	
HRS 113	The Culture of Classical Greece
HRS 114	The Culture of Classical Rome
HRS 117	Paganism in the Roman World
HRS 119	Classical Mythology
HRS 120	Reason and Revelation: The Origins of Western Culture
HRS 121	Introduction to the Hebrew Bible/Old Testament
HRS 122	Introduction to the New Testament
HRS 131	Medieval Culture
HRS 132	Renaissance
HRS 134	Baroque and the Enlightenment
HRS 135	Romanticism and Revolution
HRS 136	Birth Of The Modern
HRS 137	Global Crossings: Art and Culture 1945 to Present
HRS 140	
HRS 141	Introduction To Judaism
HRS 142	Introduction to Christianity
HRS 144	Introduction To Islam
HRS 145	Introduction to Islamic Cultures
HRS 148	African Arts and Cultures
HRS 151	World Mythology
HRS 152	Great Mystics of the World
HRS 154	Food, Farming, and the Sacred
HRS 155	Spirit and Nature
HRS 161	Multicultural America
HRS 162	American Space and Identity
HRS 171	Introduction to the East Asian World
HRS 172	The Classical Culture of China
HRS 173	Chinese Philosophy and Religion
HRS 174	Modern Japanese Literature and Culture
HRS 175	Zen Buddhism and Daoism
HRS 178	Religions of India
HRS 178A	Religions of India I: The Formative Period
HRS 179A	The Hindu Year: Fall
HRS 179B	The Hindu Year: Spring
HRS 183	World Religions and Cultures in Cinema
HRS 188	Fantasy and Romance
ITAL 130	Italian Civilization: The Dialogue Form It's Origins and European Context
KINS 118A	Martial Arts: Karate
KINS 118B	Martial Arts: Tae Kwon Do
KINS 118C	Martial Arts: Tai Chi
PHIL 102	Professional and Public Service Ethics
PHIL 112	History Of Ethics
PHIL 115	Philosophy In Literature
PHIL 117	Existentialism
PHIL 122	Political Philosophy
PHIL 131	Philosophy Of Religion
PHIL 145A	Chinese Philosophy
PHIL 145B	Philosophies Of India
RUSS 120	Russian Civilization
SOC 135	Sociology of Popular Culture
SOC 160	Asian Societies
SOC 162	Middle Eastern Societies and Culture
WOMS 121	Women Of The Middle East
WOMS 145	Feminism and the Spirit
Total Units	6-18

Area D: The Individual and Society (p.) (12 Units)

Minimum of three disciplines (e.g. ANTH, ECON, ETHN, FACS, GOVT, HIST, RPTA, etc.) must be taken in Area D. The American Institutions graduation requirement may be satisfied in Area D with 3 units of US

history courses and 3 units of US Constitution and CA government courses (see Graduation Requirements: American Institutions).

Code	Title	Units
Select 12 units from the following two divisions		12
Lower Division		
ANTH 2	Introduction to Cultural Anthropology	
ANTH 3	Introduction to Archaeology	
CRJ 1	Introduction to Criminal Justice and Society	
DEAF 60	Introduction to Deaf Studies	
ECON 1A	Introduction to Macroeconomic Analysis	
ECON 1B	Introduction to Microeconomic Analysis	
ETHN 10	Africa: Myths and Realities	
ETHN 11	Introduction to Ethnic Studies	
ETHN 11H	Introduction to Ethnic Studies (Honors)	
ETHN 14	Introduction to Asian American Studies	
ETHN 30	Introduction to Chicano/Latino Studies	
ETHN 53	Introduction to Native American Studies	
ETHN 70	Introduction to Pan African Studies	
FACS 30 Fashion and Human Environment		
FACS 50		
GEOG 2	Cultural Geography	
GOVT 1		
GOVT 1H		
GOVT 35		
HIST 15H	Major Problems in U.S. History	
HIST 17A	United States History, 1607-1877	
HIST 17B	United States History, 1877-Present	
NURS 10	Health Care: Issues and Delivery Systems	
PSYC 2	Introductory Psychology	
RPTA 33	Race, Class Gender and Leisure	
SOC 1	Principles of Sociology	
SOC 3	Social Problems	
SOC 10	Issues in Crime and Social Control	
WOMS 50	Introduction to Gender & Sexuality	
Upper Division		
ANTH 101	Cultural Diversity	
ANTH 102	The Nature of Culture	
ANTH 143	Culture and Society in Mexico	
ANTH 147	Peoples of Southeast Asia	
ANTH 149	Cultures of South Asia	
ANTH 183	Women Cross-Culturally	
ANTH 186	Culture and Poverty	
CHDV 145	Controversial Issues in Childhood Development, Education, and Social Policy	
COMS 152	Freedom Of Speech	
CRJ 111	Women and the Criminal Justice System	
CRJ 112	Gangs and Threat Groups in America	
CRJ 114	Sexual Offenses and Offenders	
CRJ 115	Violence and Terrorism	
CRJ 116	Restorative Justice and Conflict Resolution	
CRJ 117	American Criminal Justice and Minority Groups	
CRJ 118	Drug Abuse and Criminal Behavior	
ECON 181	Economics of Racism	
EDUC 160	Urban Education	
ENGR 105	Sustainable Design and Construction	
ENVS/HIST 165	American Environmental History	
ETHN 100	Ethnic America	
ETHN 110	The Asian American Experience	
ETHN 112	Contemporary Asian American Issues	
ETHN 113	Asian American Communities	
ETHN 114	Asian Americans and Globalization	
ETHN 116	Asian American Politics and Public Policy	
ETHN 122	Sikh Americans and Globalization	
ETHN 130	Chicano/Mexican-American Experience	
ETHN 131	La Raza Studies	
ETHN 136	US Mexican Border Relations	
ETHN 137	Race and Ethnicity in Latin America and Caribbean	
ETHN 140	Native American Experience	
ETHN 141	Politics of the African Diaspora	
ETHN 142	Native American Tribal Governments	
ETHN 155	Genocide and Holocaust Studies	
ETHN 170	Pan African Studies	
GEOG 145	Population Geography	
GEOL 140	Geology and the Environment	
GERO 100	Aging Issues in Contemporary America	
GOVT 113		
GOVT 134		
GOVT 141		
GOVT 142		
GOVT 143		
GOVT 144		
GOVT 147		
GOVT 148		
GOVT 150		
GOVT 163		
GOVT 165		
GOVT 169A		
GOVT 180		
HIST 102A	Culture and Language in Modern Greece, 1821-1909	
HIST 102B	Culture and Language in Modern Greece, 1909-Present	
HIST 119	Europe Since 1945	
HIST 130	The Fall Of Communism	
HIST 135B	Revolutionary and Modern Mexico	
HIST 138A	Colonial Latin America	
HIST 138B	Modern and Contemporary Latin America	
HIST 141	History of Africa Since 1800	
HIST 143B	The Modern Middle East	
HIST 146B	Modern Japan, 1800-present	
HIST 148B	China, 1600 to Present	
HIST 159	History of US Foreign Relations	

HIST 161	The American Vision
HIST 162	Social History of the United States
HIST 163	The City in US History
HIST 167	History of American Women
HIST 173	The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present
HIST 175 Sex, Population, and Birth Control in America	
HIST 177	The African-American Experience, 1603-Present
HLSC 114 Human Ecology and Health	
HRS 185	Women in Film and American Culture
INTD 125	Urban Design and Society
JOUR 134	War, Peace and the Mass Media
JOUR 172	Women in the Mass Media
LBRS 100/ SOC 176	Labor and the American Social Structure
MGMT 117	Business, Ethics and Society
PHIL 101	Ethics and Social Issues
PHIL 103	Business and Computer Ethics
PHIL 104	Bioethics
PHIL 105	Science and Human Values
SOC 106	Births, Deaths and Borders
SOC 118	Chicano Community
SOC 120	Ethnic and Race Relations
SOC 139	Animals in Society
SOC 155	Criminology
SOC 156	Delinquency
SOC 163	Conflict, Oil and Development in the Middle East
SOC 164	Sociology of Globalization
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class
SWRK 126	Theories of Criminal Behavior
SWRK 134	Crimes Without Victims
SWRK 136	Poverty and Homelessness in America
SWRK 150	Welfare In America
SWRK 151	Health Services and Systems
SWRK 191	Exploration of Veteran Studies: An Ethnographic Approach
WOMS 110	Introduction to Women's Movements in the United States
WOMS 115	Introduction to Women's Studies
WOMS 136	Gender, Race, and Class
WOMS 137	Women Of Color
WOMS 138	Women and Work
WOMS 139	Violence Against Women
Total Units	12

Area E: Understanding Personal Development (p.) (3 Units)

Only a single one-unit KINS activity course may be applied to this area. A one-unit KINS course cannot be combined with a two-unit DNCE course to meet this requirement. KINS 99 may be taken concurrently with any 1 unit KINS activity course for a total of 3 units of Area E GE credit.

Code	Title	Units
Select one from the following:		3
Lower Division		
ALS 21	First Year Seminar: Becoming an Educated Person	
ANTH 21	Freshman Seminar: Becoming an Educated Person	
EDUC 21	First Year Seminar: Becoming an Educated Person	
CHDV 30	Human Development	
CHDV 35	Child and Adolescent Development	
COMS 21	First Year Seminar: Becoming an Educated Person	
CRJ 21	First Year Seminar: Becoming an Educated Person	
CSAD 21 First Year Seminar: Becoming an Educated Person		
CSC 21	First Year Seminar: Becoming an Educated Person	
DNCE 21	First Year Seminar: Becoming an Educated Person	
ENGL 21	First Year Seminar: Becoming an Educated Person	
ENVS 21	First Year Seminar: Becoming an Educated Person	
ETHN 21	First Year Seminar: Becoming an Educated Person	
FACS 10 Nutrition and Wellness		
FACS 52		
GERO 21	First Year Seminar: Becoming an Educated Person	
GNST 21	First Year Seminar: Becoming an Educated Person	
HIST 21	First Year Seminar: Becoming an Educated Person	
HLSC 50 Healthy Lifestyles		
HONR 1	First Year Seminar: Education, Self-Examination, and Living	
HRS 21	First Year Seminar: Becoming an Educated Person	
ID 21	First Year Seminar: Becoming an Educated Person	
KINS 21	First Year Seminar: Becoming an Educated Person	
MGMT 21	First Year Seminar: Becoming an Educated Person	
MUSC 21	First Year Seminar: Becoming an Educated Person	
NSM 21	First Year Seminar: Becoming an Educated Person	
NURS 21	First Year Seminar: Becoming an Educated Person	
PHIL 21	First Year Seminar: Becoming an Educated Person	
PHOT 20	The Photographic Self	
RPTA 21	First Year Seminar: Becoming an Educated Person	
RPTA 32	Leadership and Group Development	
RPTA 34	The Outdoor Recreation Experience	
THEA 21	First Year Seminar: Becoming an Educated Person	
WLL 21	First Year Seminar: Becoming an Educated Person	
Upper Division		
COMS 114	Communication and American Culture	
EDUC 165	Sex Role Stereotyping in American Education	
ETHN 115	Biracial and Multiracial Identity in the US	
ETHN 132	La Mujer Chicana	
ETHN 133	Crosscultural Aging in America	
FACS 140	Family Resource Management	
FACS 141	Family Finance	
FACS 150		
HIST 166	Popular Culture	
HLSC 124 Consumer Health Education		
HLSC 130 Alcohol and Other Drugs		
HLSC 134 Understanding Human Sexuality		

NURS 120	Nursing Application of Research and Critical Analysis
NURS 160	Human Sexuality
PHIL 100	Ethics and Personal Values
PSYC 134	Psychology of Human Sexuality
PSYC 135	Psychology of Multicultural Groups
PSYC 137	Stress Management
PSYC 151	Psychological Aspects of Death and Dying
RPTA 100	Recreation and Leisure Lifestyle Development
RPTA 122	Perspectives On Leisure
SOC 126	Sociology of Gender
SOC 127	Men, Masculinity and Society
SOC 158	Sociology of Deviance
SOC 168	Self and Society
WOMS 120	Mother Woman Person
Total Units	3

Upper Division GE Courses (Areas B, C, D, and E) (p.)

Code	Title	Units
ALS 151	The Studio: Explorations in Arts and Letters	
ANTH 101	Cultural Diversity	
ANTH 102	The Nature of Culture	
ANTH 121	Archaeology of Mexico	
ANTH 134	Japanese Culture and Society	
ANTH 143	Culture and Society in Mexico	
ANTH 147	Peoples of Southeast Asia	
ANTH 149	Cultures of South Asia	
ANTH 166	Rise of Religious Cults	
ANTH/HRS 170	The Religious Landscape of the Sacramento Valley	
ANTH 183	Women Cross-Culturally	
ANTH 186	Culture and Poverty	
ART 111	Latin American and Latino Art History	
ART 117A	Art of India and Southeast Asia	
ART 117B	Art of China and Japan	
ASIA/HIST 140	Modern East Asian Cinema [5]	
ASTR 131	The Solar System and Space Exploration	
ASTR 132	Stars, Galaxies and Cosmology	
CHDV 141	History of Childhood: International and Interdisciplinary Perspectives	
CHDV 143	Mind and Brain in Developmental Context	
CHDV 145	Controversial Issues in Childhood Development, Education, and Social Policy	
CHIN 120	Chinese Civilization	
COMS 114	Communication and American Culture	
COMS 152	Freedom Of Speech	
CRJ 111	Women and the Criminal Justice System	
CRJ 112	Gangs and Threat Groups in America	
CRJ 114	Sexual Offenses and Offenders	
CRJ 115	Violence and Terrorism	
CRJ 116	Restorative Justice and Conflict Resolution	
CRJ 117	American Criminal Justice and Minority Groups	
CRJ 118	Drug Abuse and Criminal Behavior	
DNCE 130	Appreciation and History of Dance	
DNCE 131	Dance Cultures Of America	
DNCE 132	African-Caribbean Dance	
ECON 112	European Economic History	
ECON 181	Economics of Racism	
EDUC 121	Multicultural Children's Literature	
EDUC 160	Urban Education	
EDUC 165	Sex Role Stereotyping in American Education	
ENGL 130M	Art of Autobiography	
ENGL 140M	Modern British Drama, 1889-Present	
ENGL 141A	The Essential Shakespeare	
ENGL 150J	Twentieth-Century American Drama	
ENGL 165D	Postcolonial Literature	
ENGL 170H	Introduction To Comedy	
ENGL 170I	Introduction To Tragedy	
ENGL/ETHN 180A	Forms of African-American Poetry	
ENGL/ETHN 180B	Forms of African-American Fiction	
ENGL 180H	American Identities: In the Intersection of Race, Gender, and Ethnicity	
ENGL 180J	Jewish American Literature	
ENGL 180L	Chicano Literature	
ENGL 180M	Asian American Literature	
ENGL 180Z	Topics in Multi-Ethnic Literatures	
ENGL 185B	Twentieth Century Fiction by Women	
ENGL 191A	Masterpieces of the Cinema	
ENGR 105	Sustainable Design and Construction	
ENVS/HIST 165	American Environmental History	
ETHN 100	Ethnic America	
ETHN 110	The Asian American Experience	
ETHN 112	Contemporary Asian American Issues	
ETHN 113	Asian American Communities	
ETHN 114	Asian Americans and Globalization	
ETHN 115	Biracial and Multiracial Identity in the US	
ETHN 116	Asian American Politics and Public Policy	
ETHN/WOMS 118	Asian American Women	
ETHN 122	Sikh Americans and Globalization	
ETHN 130	Chicano/Mexican-American Experience	
ETHN 131	La Raza Studies	
ETHN 132	La Mujer Chicana	
ETHN 133	Crosscultural Aging in America	
ETHN 136	US Mexican Border Relations	
ETHN 137	Race and Ethnicity in Latin America and Caribbean	
ETHN 140	Native American Experience	
ETHN 141	Politics of the African Diaspora	
ETHN 142	Native American Tribal Governments	

ETHN 143	American Indians, Film and Popular Culture
ETHN 145	Native Voice, Memory, and Biography
ETHN 150	Native American Oral Tradition and Storytelling
ETHN 155	Genocide and Holocaust Studies
ETHN 170	Pan African Studies
ETHN 171	African Religions and Philosophies
ETHN/ENGL 180A	Forms of African-American Poetry
ETHN/ENGL 180B	Forms African-Am Fiction
FACS 112	Current Topics in Nutritional Sciences
FACS 113	Nutrition and Metabolism
FACS 140	Family Resource Management
FACS 141	Family Finance
FACS 150	
FREN 120	French Civilization
GEOG 111	Elements Of Meteorology
GEOG 113	Climate
GEOG 115	Biogeography
GEOG 116	Global Climate Change
GEOG 145	Population Geography
GEOL 130	Oceanography
GEOL 140	Geology and the Environment
GERM 140	Heroes, Dragons and Quests
GERM 141	German Mythology and Legend
GERM 142	German Folk Literature, Legend, and Lore
GERM 143	King Arthur and the Knights of the Round Table in Germany
GERM 150	German Civilization: Beginning to 16th Century
GERM 151	German Civilization: 17th Century to Present
GERO 100	Aging Issues in Contemporary America
GOVT 113	
GOVT 134	
GOVT 141	
GOVT 142	
GOVT 143	
GOVT 144	
GOVT 147	
GOVT 148	
GOVT 150	
GOVT 163	
GOVT 165	
GOVT 169A	
GOVT 180	
HIST 103	Mediterranean Europe: From the Renaissance to the European Union
HIST 105	Great Ages and Issues in Modern European History
HIST 106	Everyday Life and Society in Antiquity
HIST 107	History of the Physical Sciences
HIST 110	The Ancient Near East: A Cultural History
HIST 111	Ancient Greece
HIST 112	Ancient Rome
HIST 113	Early Medieval Europe
HIST 119	Europe Since 1945
HIST 122A	History of Women in Western Civilization, Prehistory-Middle Ages
HIST 122B	History of Women in Western Civilization, Renaissance-Present
HIST/HRS 126	Evolution of Christianity to the Reformation
HIST/HRS 127	Evolution of Christianity Since the Reformation
HIST 129A	Medieval Russia
HIST 130	The Fall Of Communism
HIST 135A	History Of Mexico To 1910
HIST 135B	Revolutionary and Modern Mexico
HIST 138A	Colonial Latin America
HIST 138B	Modern and Contemporary Latin America
HIST/ASIA 140	Modern East Asian Cinema
HIST 141	History of Africa Since 1800
HIST 142	History of Women in Africa
HIST 143A	Middle Eastern History to 1800
HIST 143B	The Modern Middle East
HIST 146A	Cultural History of Japan to 1800
HIST 146B	Modern Japan, 1800-present
HIST 146C	The History of Manga
HIST/HRS 147	History of Buddhism
HIST 148A	China: Antiquity to 1600 AD
HIST 148B	China, 1600 to Present
HIST 159	History of US Foreign Relations
HIST 161	The American Vision
HIST 162	Social History of the United States
HIST 163	The City in US History
HIST 165	American Environmental History
HIST 166	Popular Culture
HIST 167	History of American Women
HIST/HRS 168	Images Of America
HIST/HRS 169	Hollywood and America
HIST 170	
HIST 173	The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present
HIST 175	Sex, Population, and Birth Control in America
HIST 177	The African-American Experience, 1603-Present
HLSC 114	Human Ecology and Health
HLSC 124	Consumer Health Education
HLSC 130	Alcohol and Other Drugs
HLSC 134	Understanding Human Sexuality
HRS 113	The Culture of Classical Greece
HRS 114	The Culture of Classical Rome
HRS 117	Paganism in the Roman World
HRS 119	Classical Mythology
HRS 120	Reason and Revelation: The Origins of Western Culture
HRS 121	Introduction to the Hebrew Bible/Old Testament
HRS 122	Introduction to the New Testament
HRS/HIST 126	History of Christianity to the Reformation

HRS/HIST 127	History of Christianity Since the Reformation
HRS 131	Medieval Culture
HRS 132	Renaissance
HRS 134	Baroque and the Enlightenment
HRS 135	Romanticism and Revolution
HRS 136	Birth Of The Modern
HRS 137	Global Crossings: Art and Culture 1945 to Present
HRS 140	
HRS 141	Introduction To Judaism
HRS 142	Introduction to Christianity
HRS 144	Introduction To Islam
HRS 145	Introduction to Islamic Cultures
HRS/HIST 147	History of Buddhism
HRS 148	African Arts and Cultures
HRS 151	World Mythology
HRS 152	Great Mystics of the World
HRS 154	Food, Farming, and the Sacred
HRS 155	Spirit and Nature
HRS 161	Multicultural America
HRS 162	American Space and Identity
HRS/HIST 168	Images Of America
HRS/HIST 169	Hollywood and America
HRS/ANTH 170	The Religious Landscape of the Sacramento Valley
HRS 171	Introduction to the East Asian World
HRS 172	The Classical Culture of China
HRS 173	Chinese Philosophy and Religion
HRS 174	Modern Japanese Literature and Culture
HRS 175	Zen Buddhism and Daoism
HRS 178A	Religions of India I: The Formative Period
HRS 179A	The Hindu Year: Fall
HRS 179B	The Hindu Year: Spring
HRS 180	The Film
HRS 181	Contemporary Issues in Film
HRS 183	World Religions and Cultures in Cinema
HRS 185	Women in Film and American Culture
HRS 188	Fantasy and Romance
INTD 125	Urban Design and Society
ITAL 104A	Introduction to Italian Cinema I
ITAL 130	Italian Civilization: The Dialogue Form It's Origins and European Context
JOUR 134	War, Peace and the Mass Media
JOUR 172	Women in the Mass Media
KINS 118A	Martial Arts: Karate
KINS 118B	Martial Arts: Tae Kwon Do
KINS 118C	Martial Arts: Tai Chi
KINS 150	Exercise and Sport Physiology
LBRS 100/ SOC 176	Labor and the American Social Structure
MGMT 117	Business, Ethics and Society
MUSC 118B	American Popular Music: Jazz History
MUSC 118C	History of Rock Music
MUSC 118D	Hip-Hop in Urban America
MUSC 119A	World Music: Asia
MUSC 119B	World Music: Africa
MUSC 119C	World Music: Latin America
MUSC 127	The American Musical Theater
MUSC 129	American Society and Its Music
NURS 120	Nursing Application of Research and Critical Analysis
NURS 160	Human Sexuality
NURS 168	The Brain and Gender-Related Differences
NURS 179	Professional Communication and Reasoning Development
PHIL 100	Ethics and Personal Values
PHIL 101	Ethics and Social Issues
PHIL 102	Professional and Public Service Ethics
PHIL 103	Business and Computer Ethics
PHIL 104	Bioethics
PHIL 105	Science and Human Values
PHIL 112	History Of Ethics
PHIL 115	Philosophy In Literature
PHIL 117	Existentialism
PHIL 122	Political Philosophy
PHIL 125	Philosophy Of Science
PHIL 131	Philosophy Of Religion
PHIL 136	Philosophy Of Art
PHIL 145A	Chinese Philosophy
PHIL 145B	Philosophies Of India
PHSC 107	History of the Physical Sciences
PSYC 134	Psychology of Human Sexuality
PSYC 135	Psychology of Multicultural Groups
PSYC 137	Stress Management
PSYC 151	Psychological Aspects of Death and Dying
RPTA 100	Recreation and Leisure Lifestyle Development
RPTA 122	Perspectives On Leisure
RUSS 120	Russian Civilization
SOC 106	Births, Deaths and Borders
SOC 118	Chicano Community
SOC 120	Ethnic and Race Relations
SOC 126	Sociology of Gender
SOC 127	Men, Masculinity and Society
SOC 135	Sociology of Popular Culture
SOC 139	Animals in Society
SOC 155	Criminology
SOC 156	Delinquency
SOC 158	Sociology of Deviance
SOC 160	Asian Societies
SOC 162	Middle Eastern Societies and Culture
SOC 163	Conflict, Oil and Development in the Middle East
SOC 164	Sociology of Globalization
SOC 168	Self and Society
SOC 176	Labor and the American Social Structure

SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class
SWRK 126	Theories of Criminal Behavior
SWRK 134	Crimes Without Victims
SWRK 136	Poverty and Homelessness in America
SWRK 150	Welfare In America
SWRK 151	Health Services and Systems
SWRK 191	Exploration of Veteran Studies: An Ethnographic Approach
THEA 115A	Multicultural Puppetry
THEA 140	Black Drama in the African Diaspora
THEA/WOMS 144	Women and Theatre: Staging Diversity
THEA 170	African American Theatre and Culture
THEA 173	Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present
THEA 174	Multicultural Perspectives in American Theatre
THEA 175	Multicultural Perspectives in American Film
WOMS 110	Introduction to Women's Movements in the United States
WOMS 115	Introduction to Women's Studies
WOMS/ETHN 118	Asian American Women
WOMS 120	Mother Woman Person
WOMS 121	Women Of The Middle East
WOMS 136	Gender, Race, and Class
WOMS 137	Women Of Color
WOMS 138	Women and Work
WOMS 139	Violence Against Women
WOMS/THEA 144	Women and Theatre: Staging Diversity
WOMS 145	Feminism and the Spirit
WOMS 146	Women In Art

Additional Graduation Requirements (p.)

The 48-unit General Education requirement does not include the following two graduation requirements:

- Second semester composition (ENGL 20, ENGL 20M or an approved equivalent) must be completed with a grade of C- or better.
- Foreign language graduation requirement may be met by successfully completing appropriate coursework or passing proficiency exams. With a grade of "C-" or better, the following second semester or equivalent college-level language courses may satisfy both GE Area C2 units and the Foreign Language Requirement:

Code	Title	Units
CHIN 1B	Elementary Mandarin	5
DEAF 52	American Sign Language 2	4
FREN 1B	Elementary French	4
FREN 2A	Intermediate French	4
GERM 1B	Elementary German	4
ITAL 1B	Elementary Italian	4
JAPN 1B	Elementary Japanese	5
KORN 1B	Elementary Korean 1B	5
PUNJ 1B	Elementary Punjabi	4
RUSS 1B	Elementary Russian	5
SPAN 1B	Elementary Spanish	4

American Institutions (p.)

This requirement may be fulfilled by completing one Government and one US History course from the following list. The courses below also satisfy Area D units. In addition, students have the option of taking challenges in US History, US Constitution and California State and Local Government. For details on challenges exam, see http://www.csus.edu/ccr/Challenge%20Exams/.

US History

Code	Title	Units
ANTH 101	Cultural Diversity	3
HIST 15H	Major Problems in U.S. History	3
HIST 17A	United States History, 1607-1877	3
HIST 17B	United States History, 1877-Present	3
HIST 159	History of US Foreign Relations	3
HIST 161	The American Vision	3
HIST 162	Social History of the United States	3
HIST 167	History of American Women	3
HIST 177	The African-American Experience, 1603-Present	3

US Constitution and CA Government

Code	Title	Units
GOVT 1		3
GOVT 113		3
GOVT 150		3

CA Government (California State and Local Government does not meet the U.S. Constitution requirement included in other government courses listed above but may be used by students who have taken a U.S. Constitution course outside of California. It fulfills the state and local government requirement only).

Code	Title	Units
GOVT 180		3

Race & Ethnicity in American Society (p.) (3-unit Supervenient Requirement)

These courses also meet specific GE requirements in Areas C-E. One of these courses is required for students with catalog rights beginning Fall 1990 or later. The course may also be applied to the Area requirements.

Code	Title	Units
Lower Division		
ETHN 11	Introduction to Ethnic Studies	3
ETHN 11H	Introduction to Ethnic Studies (Honors)	3
ETHN 30	Introduction to Chicano/Latino Studies	3
FACS 50		3
HIST 15H	Major Problems in U.S. History	3
HIST 17A	United States History, 1607-1877	3

HIST 17B	United States History, 1877-Present	3
Upper Division		
ANTH 101	Cultural Diversity	3
ANTH 186	Culture and Poverty	3
CHDV 145	Controversial Issues in Childhood Development, Education, and Social Policy	3
CRJ 117	American Criminal Justice and Minority Groups	3
DNCE 131	Dance Cultures Of America	3
DNCE 132	African-Caribbean Dance	3
ECON 181	Economics of Racism	3
EDUC 121	Multicultural Children's Literature	3
EDUC 160	Urban Education	3
EDUC 165	Sex Role Stereotyping in American Education	3
ENGL/ETHN 180B	Forms of African-American Fiction	3
ENGL 180H	American Identities: In the Intersection of Race, Gender, and Ethnicity	4
ENGL 180M	Asian American Literature	3
ETHN 100	Ethnic America	3
ETHN 131	La Raza Studies	3
ETHN 133	Crosscultural Aging in America	3
ETHN 141	Politics of the African Diaspora	3
FACS 150		3
GOVT 141		
GOVT 163		
GOVT 165		
HIST/HRS 168	Images Of America	3
HIST 173	The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present	3
HIST 177	The African-American Experience, 1603-Present	3
HRS 161	Multicultural America	3
KINS 118A	Martial Arts: Karate	3
KINS 118B	Martial Arts: Tae Kwon Do	3
KINS 118C	Martial Arts: Tai Chi	3
SOC 118	Chicano Community	3
SOC 120	Ethnic and Race Relations	3
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class	3
THEA 115A	Multicultural Puppetry	3
THEA/WOMS 144	Women and Theatre: Staging Diversity	3
THEA 174	Multicultural Perspectives in American Theatre	3
THEA 175	Multicultural Perspectives in American Film	3
WOMS 136	Gender, Race, and Class	3
WOMS 137	Women Of Color	3

Writing Intensive (p.) (3-unit Supervenient Requirement)

One Writing Intensive course, i.e., a course with comprehensive writing assignments (minimum 5,000 words) is required. This requirement may be met either with a specifically marked GE courses or, in certain majors, with a course required for the major. (Writing Intensive courses taken to meet major requirements do not apply to the nine-unit upper division requirement in GE.) Prerequisite: Completion of GE Areas A2, A3, second semester composition (ENGL 20), junior standing, and ENGL 109M/ ENGL 109W. Students who take the WPJ instead of initially taking ENGL 109M/ ENGL 109W must score 70, 71, or 80. Students with a lower WPJ score will have to complete other prerequisites determined by their score. Successful completion of the writing intensive course with a grade of C- or better certifies the Graduation Writing Assessment Requirement (GWAR).

Code	Title	Units
ANTH 102	The Nature of Culture	3
ANTH/HRS 170	The Religious Landscape of the Sacramento Valley	3
ANTH 186	Culture and Poverty	3
ART 111	Latin American and Latino Art History	3
ASIA/HIST 140	Modern East Asian Cinema	3
ASTR 131	The Solar System and Space Exploration	3
ASTR 132	Stars, Galaxies and Cosmology	3
CHDV 143	Mind and Brain in Developmental Context	3
COMS 100B	Rhetoric and Social Influence	3
CRJ 190	Contemporary Issues in Criminal Justice	3
EDUC 121	Multicultural Children's Literature	3
EDUC 160	Urban Education	3
EDUC 165	Sex Role Stereotyping in American Education	3
ENGL 120C	Topics in Composition	4
ENGL 120P	Professional Writing	4
ENGL 120R	Topics in Rhetoric	4
ENGL 130M	Art of Autobiography	4
ENGL 140M	Modern British Drama, 1889-Present	4
ENGL 141A	The Essential Shakespeare	4
ENGL 150B	American Romanticism	3
ENGL 165D	Postcolonial Literature	4
ENGL 170H	Introduction To Comedy	3
ENGL 170I	Introduction To Tragedy	3
ENGL/ETHN 180A	Forms of African-American Poetry	4
ENGL/ETHN 180B	Forms of African-American Fiction	3
ENGL 180L	Chicano Literature	4
ENGL 180M	Asian American Literature	3
ENGL 185B	Twentieth Century Fiction by Women	4
ENVS 112	International Environmental Problems	3
ETHN 100	Ethnic America	3
ENGL 100Z	Topics in Literary Theory and Criticism	4
ETHN 145	Native Voice, Memory, and Biography	3
FACS 112 Current Topics in Nutritional Sciences		
FACS 150		3
GEOG 190	Senior Research Seminar in Geography	3
GEOL 140	Geology and the Environment	3
GOVT 165		3
HIST 105	Great Ages and Issues in Modern European History	3

HIST 106	Everyday Life and Society in Antiquity	3
HIST 122A	History of Women in Western Civilization, Prehistory-Middle Ages	3
HIST 122B	History of Women in Western Civilization, Renaissance-Present	3
HIST 138A	Colonial Latin America	3
HIST 138B	Modern and Contemporary Latin America	3
HIST/HRS 168	Images Of America	3
HRS 120	Reason and Revelation: The Origins of Western Culture	3
HRS 132	Renaissance	3
HRS 140		3
JOUR 135	Public Affairs Reporting	3
KINS 133	Integration of Concepts	3
LBRS 100/ SOC 176	Labor and the American Social Structure	3
MGMT 117	Business, Ethics and Society	3
MUSC 110	Research in Music History	3
MUSC 127	The American Musical Theater	3
MUSC 129	American Society and Its Music	3
NURS 120	Nursing Application of Research and Critical Analysis	3
NURS 179	Professional Communication and Reasoning Development	3
PHIL 101	Ethics and Social Issues	3
PHIL 105	Science and Human Values	3
PHIL 112	History Of Ethics	3
PHIL 115	Philosophy In Literature	3
PHIL 117	Existentialism	3
PHIL 145A	Chinese Philosophy	3
PHIL 145B	Philosophies Of India	3
RPTA 122	Perspectives On Leisure	3
SOC 133	Sport in a Global Perspective	3
SOC 168	Self and Society	3
SWRK 126	Theories of Criminal Behavior	3
SWRK 191	Exploration of Veteran Studies: An Ethnographic Approach	3
THEA 170	African American Theatre and Culture	3
WOMS 136	Gender, Race, and Class	3
WOMS 138	Women and Work	3

Certificate—Global and Multicultural Perspectives

Total Units: 12 units minimum—9 of which must be upper division.
All courses in Section A and B are also approved for General Education

Code	Title	Units
Global and Multicultural Perspectives on Contemporary Society (3-6 Units)		
Select 3-6 upper division units from the following:		3 - 6
From Area B5:		
GEOG 116	Global Climate Change	
From Area D:		
ANTH 101	Cultural Diversity	
ANTH 102	The Nature of Culture	
ANTH 143	Culture and Society in Mexico	
ANTH 147	Peoples of Southeast Asia	
ANTH 149	Cultures of South Asia	
ANTH 183	Women Cross-Culturally	
ANTH 186	Culture and Poverty	
ETHN 136	US Mexican Border Relations	
ETHN 137	Race and Ethnicity in Latin America and Caribbean	
ETHN 141	Politics of the African Diaspora	
ETHN 142	Native American Tribal Governments	
ETHN 155	Genocide and Holocaust Studies	
ETHN 170	Pan African Studies	
GEOG 145	Population Geography	
GEOL 140	Geology and the Environment	
GOVT 134		
GOVT 141		
GOVT 142		
GOVT 143		
GOVT 144		
GOVT 147		
GOVT 148		
HIST 119	Europe Since 1945	
HIST 130	The Fall Of Communism	
HIST 135B	Revolutionary and Modern Mexico	
HIST 138A	Colonial Latin America	
HIST 138B	Modern and Contemporary Latin America	
HIST 143B	The Modern Middle East	
HIST 146B	Modern Japan, 1800-present	
JOUR 134	War, Peace and the Mass Media	
SOC 163	Conflict, Oil and Development in the Middle East	
SOC 164	Sociology of Globalization	
SWRK 102	Crosscultural Theory and Practice: Issues of Race, Gender and Class	
WOMS 110	Introduction to Women's Movements in the United States	
From GE Honors:		
HONR 101	Science and the Public Good	
HONR 103	Civic Engagement, Service Learning: Pursuing the Public Good	
Global and Multicultural Perspectives on Arts and Humanities (3-6 Units)		
Select 3-6 units from the following:		3 - 6
From Area C1 (Arts):		
ART 111	Latin American and Latino Art History	
ART 117A	Art of India and Southeast Asia	
ART 117B	Art of China and Japan	
ASIA/HIST 140	Modern East Asian Cinema	
DNCE 130	Appreciation and History of Dance	

DNCE 131	Dance Cultures Of America
DNCE 132	African-Caribbean Dance
ENGL 191A	Masterpieces of the Cinema
HRS 180	The Film
HRS 181	Contemporary Issues in Film
ITAL 104A	Introduction to Italian Cinema I
MUSC 119A	World Music: Asia
MUSC 119B	World Music: Africa
MUSC 119C	World Music: Latin America
THEA 115A	Multicultural Puppetry
THEA 140	Black Drama in the African Diaspora
THEA/WOMS 144	Women and Theatre: Staging Diversity
From Area C2 (Humanities):	
ANTH 121	Archaeology of Mexico
ANTH 134	Japanese Culture and Society
CHDV 141	History of Childhood: International and Interdisciplinary Perspectives
CHIN 120	Chinese Civilization
ECON 112	European Economic History
EDUC 121	Multicultural Children's Literature
ENGL 165D	Postcolonial Literature
ENGL 180Z	Topics in Multi-Ethnic Literatures
ENGL 185B	Twentieth Century Fiction by Women
ETHN 171	African Religions and Philosophies
FREN 120	French Civilization
GERM 140	Heroes, Dragons and Quests
GERM 141	German Mythology and Legend
GERM 142	German Folk Literature, Legend, and Lore
GERM 143	King Arthur and the Knights of the Round Table in Germany
GERM 150	German Civilization: Beginning to 16th Century
GERM 151	German Civilization: 17th Century to Present
HIST 103	Mediterranean Europe: From the Renaissance to the European Union
HIST 105	Great Ages and Issues in Modern European History
HIST 106	Everyday Life and Society in Antiquity
HIST 110	The Ancient Near East: A Cultural History
HIST 111	Ancient Greece
HIST 112	Ancient Rome
HIST 113	Early Medieval Europe
HIST 122A	History of Women in Western Civilization, Prehistory-Middle Ages
HIST 122B	History of Women in Western Civilization, Renaissance-Present
HIST 142	History of Women in Africa
HIST 143A	Middle Eastern History to 1800
HIST 146A	Cultural History of Japan to 1800
HIST 146C	The History of Manga
HIST/HRS 147	History of Buddhism
HIST 148A	China: Antiquity to 1600 AD
HRS 136	Birth Of The Modern
HRS 137	Global Crossings: Art and Culture 1945 to Present
HRS 140	
HRS 145	Introduction to Islamic Cultures
HRS 148	African Arts and Cultures
HRS 151	World Mythology
HRS 152	Great Mystics of the World
HRS 171	Introduction to the East Asian World
HRS 172	The Classical Culture of China
HRS 173	Chinese Philosophy and Religion
HRS 174	Modern Japanese Literature and Culture
HRS 183	World Religions and Cultures in Cinema
HRS 188	Fantasy and Romance
ITAL 130	Italian Civilization: The Dialogue Form It's Origins and European Context
PHIL 145A	Chinese Philosophy
PHIL 145B	Philosophies Of India
RUSS 120	Russian Civilization
SOC 135	Sociology of Popular Culture
SOC 160	Asian Societies
SOC 162	Middle Eastern Societies and Culture
WOMS 121	Women Of The Middle East
From GE Honors:	
HONR 102	The Public Good Through the Visual and Performing Arts
Global and Multicultural Perspectives in the Discipline (3 Units)	
Select 3 units [1]	3
Total Units	9-15

[1] 3 units may be lower or upper division. Courses to be selected in consultation with major advisor

All courses and petitions for substitution will be approved by the Office of Undergraduate Studies and will reflect the criteria and learning outcomes of the Certificate Program.

General Education Policies

- All upper division GE courses require at least second semester sophomore standing (45 units) and completion of all GE Area A courses as prerequisites.
- At least 9 units must be chosen from upper division GE courses (100-199) and at least 9 units must be taken in residence at Sacramento State (these units may overlap).
- Each course taken to satisfy the Area A Basic Subjects and Area B4 Quantitative Reasoning must be completed with a grade of "C-" or higher.
- A 2.0 cumulative GPA is required in General Education.

Overlap Between General Education and Majors/Minors (Fall 1992 - Spring 2013)

General Education requirements include five areas (A-E) in which you must take courses (area requirements), a nine-unit upper division requirement, a Race and Ethnicity requirement, and a Writing Intensive requirement. The overlap possibilities among these four aspects of General Education are outlined below. Students needing help applying

these overlap policies are encouraged to see an advisor in the Academic Advising Center, Lassen Hall 1012.

1. A maximum of nine units of coursework from your major department may also be applied to the General Education requirements.
2. The Race and Ethnicity requirement can be met with an upper or lower division course from a student's major or major department. Example: A Social Work major can use SWRK 102 to meet the Race and Ethnicity requirement.
3. The Writing Intensive requirement can be met with a course from the major or major department in specified majors, but not in all majors.
4. There is no restriction on the overlap of courses between GE and minor requirements*

Note: For Business Administration majors, substitute "College of Business" for "major department." For Social Science majors, substitute "History" for "major department."

Overlap Between General Education and Majors/Minors (Fall 2013 and Later)

General Education requirements include five areas (A-E) in which you must take courses (area requirements), a nine-unit upper division requirement, a Race and Ethnicity requirement, and a Writing Intensive requirement. The overlap possibilities among these four aspects of General Education are outlined below. Students needing help applying these overlap policies are encouraged to see an advisor in the Academic Advising Center, Lassen Hall 1012.

1. There is no university restriction on the overlap of courses between GE and coursework approved for GE from your major department.
2. The Race and Ethnicity requirement can be met with an upper or lower division course from a student's major or major department. Example: A Social Work major can use SWRK 102 to meet the Race and Ethnicity requirement.
3. The Writing Intensive requirement can be met with a course from the major or major department in specified majors, but not in all majors.
4. There is no restriction on the overlap of courses between GE and minor requirements

Transfer Students

Transfer students who have completed lower division General Education requirements at a California Community College, including those certified under the Intersegmental General Education Transfer Core Curriculum (IGETC), and/or those in receipt of an Associate Degree for Transfer (ADT), are required to complete 9 units of upper division GE at Sacramento State, meet the foreign language proficiency graduation requirement, meet the state "code" requirements in U.S. History, American and California Government, and the writing intensive requirement. These 9 units may or may not include the writing intensive requirement, depending on the policy of the student's major department. Students who have not completed an approved course for the 'Race and Ethnicity in American Society' category at a community college must take a course in this category at Sacramento State. In addition, all transfer students, except those fully certified as having completed the IGETC core curriculum, must complete the required second semester writing course or an approved course at a community college.

Note: Foreign Language Proficiency Requirement - If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or higher required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: http://www.csus.edu/wll/for-students/graduation-requirement.html

For more information about IGETC requirements and/or Associate Degrees for Transfer, contact your community college counselor.

General Education Honors Program

Program Description

"Education is not preparation for life; education is life itself." – John Dewey

The General Education Honors Program is a course of study to provide academic challenges and enhanced learning for highly motivated students at Sacramento State. Honors students take most of these courses in their freshman and sophomore years. There is an additional nine-unit upper division Honors sequence that students take to earn an Honors certificate upon graduation. The Honors courses fulfill almost all Sacramento State General Education requirements.

The guiding principles of the Honors Programs are active learning, global subject matter, study of primary texts, and an interdisciplinary orientation. Specially selected faculty provide challenging and stimulating learning experiences in small class settings. The cornerstone experience of the freshmen and sophomore years is a three semester Honors seminar, in which students will read some of the great books of the civilizations of the world and discuss some of the issues raised by these authors.

Honors students have access to a lounge and central administrative office, where they can relax, study, meet with advisors, and talk with one another. The program is open to qualified entering freshmen; all others interested should contact the Honors Director.

For further information and application instructions, visit the Honors Web site at www.csus.edu/honorsprogram (http://www.csus.edu/honorsprogram/).

Academic Program

GE Honors Certificate (p. 1131)

Contact Information

Lee M. A. Simpson, Director
Rheena K. Muñoz, Administrative Support Coordinator II
Kaitlyn Ehrmantrout, Administrative Support Coordinator I
Academic Resource Center 4002
(916) 278-2804
www.csus.edu/honorsprogram (http://www.csus.edu/honorsprogram/)

HONR 1. First Year Seminar: Education, Self-Examination, and Living. 3 Units

Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to comparative ideas of education and self-development. In writings from around the world, examines works on education, autobiographical accounts, and short stories to explore concepts of teaching, learning, human growth and development, and the role of the school and university in the realization of human potential.

HONR 2. Great Books and World Civilization I. 3 Units
Prerequisite(s): HONR 1 and instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Students read, discuss, and explore some of the most influential works of literature, philosophy, history, and religion from cultures around the world prior to the 15th century. Students will gain knowledge of different cultural traditions, explore ways to criticize and to learn from different genres of literature, examine their own concepts and ideas, and practice skills of critical thinking in dialogue with challenging works. Readings will be drawn from a broad array of sources, including Greek, Chinese, and Indian traditions, different religious faiths, and works of literature representing a variety of outlooks and views.

HONR 3. Great Books and World Civilization II. 3 Units
Prerequisite(s): HONR 2 and instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Students read, discuss, and explore some of the most influential works of literature, philosophy, history, and religion from cultures around the world from the 15th century to the present. Students will gain knowledge of different cultural traditions, explore ways to criticize and to learn from different genres of literature, examine their own concepts and ideas, and practice skills of critical thinking in dialogue with challenging works. Readings will be drawn from a broad array of sources, including Greek, Chinese, and Indian traditions, different religious faiths, and works of literature representing a variety of outlooks and views.

HONR 101. Science and the Public Good. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

This course examines how scientists employ information derived through the scientific method and statistical analyses to form conclusions. The methodology of science is applied to public policy debates relating to climate change, the use of DNA, Creationist/evolutionist issues, water conservation, land use zoning, energy, mineral resources, and other topics.

HONR 102. The Public Good Through the Visual and Performing Arts. 3 Units
Prerequisite(s): Upper division status in Honors Program; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

This course explores the role of the visual and performing arts as a catalyzing and infinitely variable means of pursuing the public good. Students will engage with the artistic process as well as learn how works of art have successfully challenged ideological conventions and helped change social and political systems. Strategies of making art will be examined in the form of specific visual and performativity methodologies, the context of the artist, and the public perception of various art forms.

HONR 103. Civic Engagement, Service Learning: Pursuing the Public Good. 3 Units
Prerequisite(s): Must be admitted to Honors Program
Term Typically Offered: Fall, Spring

Students to be an active participant in his/her own learning process through a service learning experience and participation in a corresponding seminar. Students are offered a reciprocal opportunity to acquire knowledge and develop skills while providing service and assistance to the community. Students will have the opportunity to assess the circumstances of an organization and provide feedback on their situation. The student will evaluate and assess his/her service learning from three perspectives: the physical universe and its life forms, social issues and social science research, and the arts.
Note: An international experience can be substituted for a local service learning experience. See Honors Program Director for more information.

HONR 120. Honors One World Seminar. 3 Units
Prerequisite(s): Open to students in the Honors program and permission of the program director.
Seminar dedicated to exploring the One World theme for the university. Topic changes annually.

HONR 150. Leadership Seminar. 3 Units
Prerequisite(s): Open only to Honors students.
Term Typically Offered: Fall, Spring

Seminar dedicated to exploring the principles of effective leadership.

HONR 195. Community Fieldwork and Internship. 3 Units
Prerequisite(s): Open to students in the Honors Program with permission of the program director and advanced approval of project goal and objective.
Term Typically Offered: Fall, Spring

Supervised service-learning experience with a community partner. This experience focuses on application of the interdisciplinary approach of the General Education Honors Program while affording students direct, hands-on experiences.
Credit/No Credit

HONR 196. Honors Senior Thesis. 3 Units
Prerequisite(s): Open only to students enrolled in the GE Honors program with permission of the program director.
Term Typically Offered: Fall, Spring

Honors research seminar in which students will complete a research paper in the discipline of their choice based on original research. Recommended for the student's final semester of study.

HONR 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Open to students enrolled in the General Education Honors Program. Individual projects and directed reading for students who are competent to assume independent work. Requires approval of the Honors Program Director and Honors faculty member under whom the independent work is to be conducted.

GE Honors Certificate

Units required for Certificate: 42

Program Description

The General Education Honors Program is a course of study to provide academic challenges and enhanced learning for highly motivated students at Sacramento State. Honors students take most of these courses in their first two years. An additional nine-unit upper division Honors sequence is completed to earn an Honors certificate upon graduation. The Honors courses fulfill almost all Sacramento State General Education requirements.

Requirements

Honors students take forty-two (42) units of Honors courses (33 lower division and 9 upper division). Limited exceptions are permitted with permission of the Director.

In their first two years, Honors students take approximately three Honors courses (9 units) per semester, filling out their schedules with other General Education courses or courses required in their pre-major. Honors students must take at least 12 units overall per semester.

The core of the curriculum will be a three-semester Honors seminar in which students read some of the great books of world civilizations, consider some of the big issues raised by world thinkers and writers, and improve their skills in critical thinking and writing:

Code	Title	Units
HONR 1	First Year Seminar: Education, Self-Examination, and Living	3
HONR 2	Great Books and World Civilization I	3
HONR 3	Great Books and World Civilization II	3

The Honors courses fulfill almost all Sacramento State General Education requirements for graduation. GE courses that students take in addition to their Honors courses are: ENGL 5, Math, and a physical science course with lab. Students must also fulfill a university graduation requirement in foreign languages.

Honors students are assigned a faculty advisor upon arrival at Sacramento State. They must consult with their advisor at least once a semester before registering for their courses.

The freshman and sophomore courses for the first Honors cohort are approximately as follows:

Program Requirements

Freshman Year		Units
First Semester		
HIST 50H	World History I: to 1500	3
HONR 1	First Year Seminar: Education, Self-Examination, and Living	3
HIST 15H	Major Problems in U.S. History [1]	3
	Units	9
Second Semester		
COMS 4H	Honors Public Speaking ((may be taken in fall or spring))	3
EDUC 10H	Critical Thinking and the Educated Person: Honors	3
HIST 51H	World History from 1500 to the Present	3
	Units	9
Sophomore Year		
Third Semester		
ANTH 2H or ETHN 11H or GEOG 2H	Introduction to Cultural Anthropology - Honors [2] or Introduction to Ethnic Studies (Honors) or Cultural Geography - Honors	3
ENVS 10H	Honors Environmental Science	3
HONR 2	Great Books and World Civilization I	3
	Units	9
Fourth Semester		
POLS 1H	Honors Government	3
HONR 3	Great Books and World Civilization II	3
	Units	6
Junior and Senior Years		
Honors students take three specially designed Honors courses to fulfill their upper division requirement in General Education:		
HONR 101	Science and the Public Good	3
HONR 102	The Public Good Through the Visual and Performing Arts	3
HONR 103	Civic Engagement, Service Learning: Pursuing the Public Good	3
	Units	9
	Total Units	42

[1] May be completed in any semester in the program.

[2] Students choose ANTH 2H, GEOG 2H or ETHN 11H to complete their Area D requirements.

ROTC

Office of Academic Affairs

Program Description Aerospace Studies/Air Force

The Department of Aerospace Studies offers three and four year academic and training programs towards a commission in the United States Air Force. The Air Force Reserve Officer Training Corps (AFROTC) program is designed to develop officers in the USAF through leadership and academic training. Cadets participate in dialogues, problem solving, and other planning activities. Program goals are achieved through formal academic classes, physical fitness training, and Leadership Laboratory (a 2-hour weekly military training session). Qualified undergraduate or specially qualified graduate students may apply for AFROTC. The program accepts students from most of the local two- and four-year community colleges and universities. Contact the Department (www.csus.edu/afrotc/ (http://www.csus.edu/afrotc/)) for information on open enrollment procedures for non-Sacramento State students.

Eligibility

As one of the prerequisites for commissioning, each cadet must attend a two-week field training encampment. This training is conducted at an Air Force base during the summer, normally between a cadet's sophomore and junior years. Field training emphasizes military orientation, academics, physical fitness training, leadership exercises, teamwork, job specialty briefings, military drill and ceremonies.

Upon completion of the AFROTC program and all requirements for a bachelor's degree, cadets are commissioned as second lieutenants and serve a minimum of four years in the Air Force. Graduate students are eligible for an Air Force commission upon successful completion of the AFROTC program. AFROTC students may compete to be selected and enter pilot, combat systems operator ("CSO"-navigators, weapon system operators, etc.), remotely piloted aircraft pilot, or air battle manager training after commissioning. These career fields, particularly pilot, are highly selective career fields and the competition is intense. Other commissionees go on active duty in specialties consistent with their academic majors, their desires, and the needs of the Air Force. Commissionees may request a delay from entry on active duty to continue their education, or they may apply for Air Force sponsored graduate study to begin immediately upon entering on active duty service.

Scholarships

AFROTC may offer scholarships to qualified students. Less than 20% of AFROTC cadets are on scholarships and they are highly competitive. Scholarships usually provide for tuition, books, lab and incidental fees, and a tax-free monthly stipend ranging from $300-$500.

Except for scholarship recipients, students are under no obligation to the Air Force until they enter their junior cadet year. Upon entering their junior cadet year all cadets (scholarships/non-scholarships) begin receiving a monthly stipend ranging from $300-$500. More detailed program information is available upon request from AFROTC, Sacramento State, Chair, Department of Aerospace Studies, Yosemite Hall Room 122, (916) 278-7315 or at www.csus.edu/afrotc/ (http://www.csus.edu/afrotc/)

Program Description Military Science/Army

The Military Science Department operates as an extension office of the Military Science Department at the University of California at Davis and offers hands-on training in management and leadership. The program stresses the following leadership dimensions: oral and written communications, oral presentations (formal briefings), initiative, sensitivity, influence, planning and organizing, delegation, administrative control, problem analysis, judgment, decisiveness, physical stamina, mission accomplishment, and fellowship. Also stressed are current events, national and international politics, military affairs, ethics training, and human relations with emphasis on eliminating racial and gender discrimination. Management and leadership are taught using the U.S. Army as a model. Military skills (such as drill and ceremonies, map reading, and squad tactics) are taught to create an environment where students can enter leadership positions and apply theories taught in the classroom. Students learn by doing. The program assists students in all academic fields to prepare for positions of leadership in military or civilian careers.

The Department offers two program tracks:

1. a purely academic track, and
2. a precommissioning track for those desiring a commission in the U.S. Army

The academic track entails no obligation to the military and is open to all students. Students pursuing the academic track do not wear a uniform or otherwise participate in extracurricular activities designed as part of the precommissioning process. Activities for all students include the Ranger club (a club designed for adventure activities such as rappel ling, white-water rafting, orienteering, and patrolling) and intramural sports teams.

Students who desire a commission in the U.S. Army participate in both the academic portion of the program and in the leadership laboratories and extracurricular activities designed to enhance their leadership and technical skills. They wear uniforms to leadership laboratories and selected classes and become ROTC cadets. Students may be cadets in the lower division courses without incurring a military obligation. Students participating in the upper division precommissioning program incur a military obligation. See below for details. Extracurricular activities for cadets include an intercollegiate sports team (Ranger Challenge), the university color guard, military honor society, a rifle/pistol team, and opportunities to participate in field training exercises.

Military Science Program Options

Students are enrolled in military science under **one** of two programs.

Four-Year Program

Students are enrolled in the basic course (lower division) for the first two years on a voluntary basis. There is no military obligation associated with attendance in lower division courses. Admission to the advanced course (upper division) is by application from second-year lower division students who meet the academic, physical, and military aptitude requirements. Qualified veterans can enter the advanced course immediately because of their military service experience, upon approval by the Department Chair. Upper division students receive $350 (Juniors) or $400 (Seniors) subsistence per month after executing a contract agreeing to complete the course and accept a commission if offered. During the course, all military science textbooks, uniforms and equipment are provided without cost. Students are given leadership development experience at summer camp (advanced camp) between their third and fourth years of the course. Emphasis is on individual participation, leadership development and the capability to function effectively in positions of significant responsibility.

Two-Year Program

The two-year program is for students who have not attended lower division Military Science classes. In lieu of lower division courses an applicant attends the Army ROTC National Leader's Camp at Fort Knox, Kentucky. Applicants are paid for camp attendance and transportation costs. Applications are accepted during the winter and spring terms of the year preceding enrollment in the two-year program. All other provisions explained above for the upper division course apply to the two-year program.

Scholarships

The U.S. Army offers four-, three-, and two-year Active Duty and two-year Reserve Forces Duty or Dedicated California National Guard scholarships to students planning to attend or attending Sacramento State. The U.S. Army ROTC scholarship package pays tuition and educational fees. Also included in all scholarships is a flat rate of $600 per year for textbooks, up to $400 per year for miscellaneous fees such as laboratory, student activity, transcript, and graduation fees, and a subsistence allowance of up to $400 a month for 10 months for each year that the scholarship is in effect.

The Army Reserve Officers' Training Corps four-year Active Duty merit scholarships are awarded to qualified high school seniors in a national competition each year. There are two cycles available for submission of the four-year scholarship application. High school juniors can compete for an Early Cycles scholarship by submitting their application complete and postmarked by July 15 between their junior and senior years.

Applicants will receive notification of their final status by November 1. As high school seniors, students compete for the Regular Cycle scholarship by submitting their application complete and postmarked by December 1. Those applicants not selected in the Early Cycle are considered in the Regular Cycle competition. Applicants will receive notification of their final status by March 1 of their senior year in high school. Interested applicants should see their high school counselor for an application or contact the UC Davis Department of Military Science at (530) 752-7682.

The three-year Active Duty and two-year Reserve Forces Duty scholarships are awarded to college students who are already attending Sacramento State or transferring from a junior college to Sacramento State, and have three to two years remaining before graduating with a baccalaureate. Students interested in competing for these scholarships can submit their application beginning in November of each school year. The deadline for submission of an application is January 15 for the two-year scholarship and February 15 for the three-year scholarship. Students apply for and are awarded these Army scholarships through the Military Science Department.

Leadership Laboratory

During the course of the school year, several weekends and two hours per week are spent in the conduct of practical exercises. Classes emphasize adventure activities including offense, defense and patrolling techniques, weapons familiarization, rappel ling, rope bridging, obstacle course, leadership reaction course, and land navigation. All cadets are required to attend leadership laboratories at the UC Davis campus for practical leadership experience and to prepare for attendance at the Army ROTC Advanced Camp, held at Fort Knox, Kentucky.

Contact Information

AFROTC, Sacramento State
Department of Aerospace Studies
Lt Col Kenneth H. Morse, Department Chair
Catherine Davis, University Liaison
Yosemite Hall 122
(916) 278-7315
http://www.csus.edu/afrotc (http://www.csus.edu/afrotc/)

ARMY ROTC, Sacramento State (UC Davis Ext. Center)
Army ROTC
LTC Ryan Burkert, Program Chair
or the University Liaison
Yosemite Hall 157
(916) 278-2635
armyrotc@csus.edu
http://www.csus.edu/armyrotc (http://www.csus.edu/armyrotc/)

ARMY ROTC, UC-Davis Military Services
Department Office, 125 Hickey Gymnasium, UC Davis
(530) 752-5211
rotc@ucdavis.edu
http://milsci.ucdavis.edu

AERO 1A. Heritage and Values of the United States Air Force I. 1 Unit
Term Typically Offered: Fall, Spring

Orientation to the Air Force and AFROTC. This is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, organizations of the Air Force, and benefits of Air Force membership. Students will be required to complete an oral and written project.

AERO 1B. Heritage and Values of the United States Air Force II. 1 Unit
Term Typically Offered: Fall, Spring

Continuation of AERO 1A: completes students' orientation to the Air Force. Specific topics include evolution of Airpower, Air Force structure, and social media and the Air Force. Students will be required to complete an oral and written project.

AERO 21A. Team Leadership and Fundamentals I. 1 Unit
Term Typically Offered: Fall, Spring

Focuses on laying the foundation for teams and leadership in the Air Force. Topics include skills that will allow cadets to improve their leadership on a personal level and within a team. Cadets will experience initial field training preparation. Communication skills will be emphasized and include: public speaking, writing, and class participation.

AERO 21B. Team Leadership and Fundamentals II. 1 Unit
Term Typically Offered: Fall, Spring

Continuation of AERO 21A. The purpose of this course is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadets to AFROTC offer candidates. Topics include conflict management, human relations, building teams. Communication skills will be emphasized and include: speaking, writing, and class participation.

AERO 99. Special Problems. 1 - 4 Units
Term Typically Offered: Fall, Spring

Academic study and evaluation in specified topics associated with aerospace development, technology, and doctrine.
Note: Open only to students who appear competent to complete assigned work and who meet prerequisites established by the Department of Aerospace Studies. Approval in writing by the Department Chair required.

Credit/No Credit

AERO 135A. Leading People and Effective Communication I. 3 Units
Term Typically Offered: Fall, Spring

This course teaches cadets advanced skills and knowledge in management and leadership. Also a survey of selected concepts, principles, and theories on decision making, change management, effective supervision and Air Force diversity issues. Students will be given the opportunity to improve speaking and writing skills.

AERO 135B. Leading People and Effective Communication II. 3 Units
Term Typically Offered: Fall, Spring

Continuation of AERO 135A. Survey of selected concepts, principles, and theories on negotiating in teams, bias, creating a vision, public affairs, and professionalism. Students will be given the opportunity to improve speaking and writing skills.

AERO 145A. National Security and Preparation for Active Duty I. 3 Units
Term Typically Offered: Fall, Spring

Provides an overview of the role of the military in our national security policy and processes. It includes an analysis of the roles of the three branches of government as they relate to national security; organization of the Air Force as well as other branches of the military; an overview of military ethics; how the Air Force deploys; and a discussion of global current events which impact our national security. Students are expected to participate in class discussions/complete written/oral presentations.

AERO 145B. National Security and Preparation for Active Duty II. 3 Units
Term Typically Offered: Fall, Spring

Continuation of AERO 145A. Presentation of critical issues facing today's military professionals. A wide variety of topics are discussed including: the military legal system; the laws of armed conflict; security issues; personal finance; professional/unprofessional relationships; information warfare; and issues pertinent to the first assignment after commissioning into the Air Force. Students will be expected to participate in class discussions and complete a written and oral presentation.

AERO 199. Special Problems. 1 - 4 Units
Term Typically Offered: Fall, Spring

Academic study and evaluation in specified topics associated with aerospace development, technology, and doctrine.
Note: Open only to those students who appear competent to complete assigned work and who meet prerequisites established by the Department of Aerospace Studies. Approval in writing by the Department Chair required.

Credit/No Credit

MILS 14. Introduction to Military Science I. 1 Unit
Term Typically Offered: Fall, Spring

Discussion of the military as one element of national power; its role in American defense; its purpose, weapons and organizations; its participation in international treaties. Discussion of other subjects required for a student to understand the military and its place in modern society. Fall only.

MILS 15. Introduction to Military Science II. 1 Unit
Term Typically Offered: Fall, Spring

Discussion of the military's role in American Society, current society attitudes, sources of its leaders, and an examination of its structure. Spring only.

MILS 24. Principles and Tactics of the Soldier. 1 Unit
Term Typically Offered: Fall, Spring

Familiarizes students with the nine principles of war, and gain an appreciation for the role of the commander in warfare. A study of small unit level will enable the student to understand the nature of the battlefield environment, and will put the decisions of the commander into perspective. These discussions will lead to the discussion of the elements of leadership to be presented in MILS 25. Fall only.

MILS 25. Leadership Assessment and Beginning Counseling Skills. 1 Unit
Term Typically Offered: Fall, Spring

Students will gain insight and practical experience in the manager-leader skills of counseling using the Army's sixteen leadership dimensions as a model. The student will understand the elements of leadership, and undergo the Army's Leadership Assessment Program in class. Interactive role playing scenarios will be conducted and behavior recorded in a group setting. The student will be given individual feedback on the results of the assessment by scheduling a private appointment with the instructor. Spring only.

MILS 99. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Intensive examination of one or more special problems in Military Science. Possible areas of study include examination of the structure of the military and its place in modern society, participation in international treaties, leadership skills, decision making, as well as other topics in military science.

MILS 134. Principles Of Instruction. 2 Units
Term Typically Offered: Fall, Spring

Principles and practice in fundamentals applicable to military instruction to include planning, presentation, execution and evaluation. Student presentations exemplify lecture material. Application of small combat unit tactics (squad and platoon) will solidify concepts discussed in class. Fall only.

MILS 135. Military Operations. 2 Units
Prerequisite(s): Upper division standing, MILS 134 or instructor permission.
Term Typically Offered: Fall, Spring

Military small unit tactical theory and application are taught and serve as a basis for leadership development. Introduces principals of combat contemporary operating environment, Geneva Law of Land Warfare, and military offensive and defensive operations. Emphasis is placed on developing critical thinking, problem solving, and communication skills. Spring only.

MILS 144. Principles of Military Administration. 2 Units
Term Typically Offered: Fall, Spring

Comprehensive course in the organization, structure, and functions of the various types of staffs and an introduction to the theory and application of military law and legal systems focusing on the Uniform Code of Military Justice and the rights of the accused under the Constitution. Fall only.

MILS 145. Military Leadership and Ethics. 2 Units
Term Typically Offered: Fall, Spring

Capstone seminar designed to bring together all previous Military Science instruction. Examines contemporary leadership problems. Designed to provide the ROTC cadet with the basic management skills necessary for a foundation for future growth as a junior officer. Spring only.

MILS 199. Special Problems. 1 - 3 Units
Prerequisite(s): MILS 14, MILS 15, MILS 24, MILS 25 and Department Chair permission.
Term Typically Offered: Fall, Spring

Intensive examination of one or more special problems in military science. Possible areas of study include leadership dimensions, professional ethics, critical thinking, problem solving, communication skills as well as other topics in military science.

Special Major/Minor

Special Major (Undergraduate) (p. 1136)

Special Major (Graduate) (p. 1136)

Contact Information

For Undergraduate Special Major:

Office of Undergraduate Studies
Sacramento Hall 234
(916) 278-5344
csus.edu/acaf/ge/general-education.html (http://csus.edu/acaf/ge/general-education.html)

Contact Information

For Graduate Programs:
Office of Graduate Studies
River Front Center 206
(916) 278-6470
www.csus.edu/gradstudies (http://www.csus.edu/gradstudies/)

Special Major (Graduate)

Graduate Program

The Special Major for the Master's degree provides an alternative for superior students whose special needs and interests cannot adequately be met by any one of the existing master's degree programs of the University. The student may earn a Master of Arts or a Master of Science, as appropriate to the department in which the culminating experience requirement is completed. The special major is a coherent program directed towards a clear theme, not available within an existing graduate major. The courses are chosen from two or more departments and may bridge more than one college within the University. The courses must be carefully selected for their correlation and clear applicability to the objective of the unique major being proposed. The proposed program must be compatible with the objectives of the University and supportable by courses already offered within the degree programs and by the expertise of the faculty members.

Eligibility

The Special Major program is restricted to superior graduate students who are eligible for admission to classified standing in one of the regular master's degree programs of the University.

Applicants must present evidence of overall undergraduate grade point averages of 3.0 and 3.0 in the last 60 semester units taken.

Courses taken to fulfill prerequisite requirements must be completed with a minimum GPA of 3.5, and they may not be counted toward the degree requirements.

Admission Requirements

Students may apply to the University as unclassified graduate students or directly into a Special Major program.

A Special Major application with department approvals must be submitted no later than the end of the first semester of attendance.

The applicant will need to obtain the assistance and approval of three or more faculty advisors. Because of the interdisciplinary nature of the Special Major, students are required to obtain the assistance and concurrence of faculty advisors from the key instructional units listed in the Program of Study. Obtain the detailed Graduate Special Major guidelines from the Office of Graduate Studies, River Front Center 206, (916) 278-6470. Prepare the program in consultation with the faculty committee.

Advancement to Candidacy

Each student must file an application for Advancement to Candidacy indicating a proposed program of graduate study. This procedure may begin as soon as the classified graduate student has:

- removed any deficiencies in admission requirements;
- completed at least 12 units of 200-level courses with a minimum 3.0 GPA; and
- taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Master of Arts/Master of Science – Special Major

Minimum upper division and graduate level units required: 30

- At least 18 units must be in regularly established lecture or seminar courses at the 200 level (not to include 299 courses).
- No more than six units may be in Independent Study (299 or similar courses).
- No more than six units shall be in any one or in any combination of:
  a. approved extension credit;
  b. transfer credit, for work carrying graduate degree residence credit at another accredited institution. No more than half the units may be in any one department.

Special Major (Undergraduate)

Program Description

When an existing, authorized Bachelor's degree, Minor, Certificate, or Non-Certificate Program of Study does not meet the needs of a student, a Special Major or Minor can be requested. The Special Major or Minor can be a first and only program or a second major or minor. In the latter case, students are encouraged to develop a program of study which complements the first major. Programs will be interdisciplinary in nature and will require at least six units of coursework in each of at least two academic units. Materials describing the procedures and requirements applying to special majors and minors can be obtained from the Dean's office in each of the colleges or online at: www.csus.edu/acaf/ge/Student%20Forms/Revised%20Policy%20for%20Special%20Major.pdf (http://www.csus.edu/acaf/ge/Student%20Forms/Revised%20Policy%20for%20Special%20Major.pdf). All approvals should be obtained at least one year in advance of graduation date. Final special major program plans with appropriate signatures are submitted to the Dean for Undergraduate Studies, Sacramento Hall 234. The program does not qualify for special major authorization until all parties have approved the program.

Eligibility

To qualify for a Special Major or Minor a student must satisfy the following requirements:

- Before submitting the application to begin work on the Special Major, the student must have a combined grade point average of 2.5 on all coursework completed to that point.
- Describe the educational and career objectives sought.
- Identify and justify the relationship of the pattern of study requested to the objectives sought.

- Outline the coursework and academic activity necessary to complete the objectives cited.
- No more than 6 units may be in Independent Study (199 or similar courses) and Fieldwork (195 or similar courses).
- Obtain the assistance and approval of two or more faculty advisors from the key instructional units listed in the Program of Study as well as the Department or Academic Unit Chairs from those units.
- Obtain the approval of the appropriate college dean(s).
- Submit all materials for review and approval to the Office of Undergraduate Studies, Sacramento Hall 234.

Specific Degree Requirements

- A minimum/maximum total of 120 units are required for the Bachelor of Arts or Bachelor of Science Special Major
- A BA Special Major must have a minimum of 24 units
- A BS Special Major must have a minimum of 36 units
- Each Special Major must have a minimum of 6 units in each of the key areas of the degree program
- All other University requirements for a Bachelor's degree, such as State Code, General Education, upper division minimum requirements, etc. must be met.
- At least two-thirds of the upper division units must be taken in residence at California State University, Sacramento

Program Requirements

Special Major

A minimum of 120 units are required for the Bachelor of Arts or Bachelor of Science Special Major. No more than 6 units may be in Independent Study (199 or similar courses) and Fieldwork (195 or similar courses).

The unit requirements for the major are:

- BA: no less than 24 units with at least 12 upper division units
- BS: no less than 36 units with at least 18 upper division units

In all cases at least two thirds of the upper division units must be taken in residence, i.e., at Sacramento State.

Special Minor

Total units required for the Special Minor: 18, including a minimum of 12 upper division units in the field of specialization.

Office of the President

Office of the President (http://www.csus.edu/president/)

California State University, Sacramento
6000 J Street
Sacramento, CA 95819
(916) 278 - 7737

Programs:

Athletics (p. 1137)

Athletics

President's Office

Program Description

The program of intercollegiate athletics is organized and conducted as an integral part of the total educational program of the University. Academic excellence and athletic accomplishments go hand in hand at Sacramento State. There are three separate and unique missions in this program: to contribute to the educational objectives of the University; to provide a healthy, competitive athletic experience to individual student-athletes; to serve as a public relations vehicle within the community.

The Department of Intercollegiate Athletics offers both academic courses and an intercollegiate athletics program. Academic courses offer the opportunity for individuals to gain knowledge and understanding in a particular area of expertise related to intercollegiate athletics.

Sacramento State has made a strong commitment to the achievement of national excellence at the NCAA Division I level. It also is committed to maintaining an equitable program between men and women.

Special Features

- Most of Sacramento State's sports are affiliated with the Big Sky Conference.
- Baseball is a member of the Western Athletic Conference
- Men's Soccer and Beach Volleyball are members of the Big West Conference.
- Gymnastics is a member of the Mountain Pacific Sports Federation.
- Rowing is a member of the American Athletic Conference.
- The Student-Athlete Resource Center (SARC) (Lassen Hall 3002) offers a counseling system for student-athletes, designed specifically by the Department of Intercollegiate Athletics and Student Affairs to ensure academic development.

Student-Athlete Special Action Review Committee

The Student-Athlete Special Action (SASA) Committee will be convened at the request of the Athletic Admissions Coordinator or their designee. The SASA Committee's purpose is to review, on a case-by-case basis at the request of the Athletic Admissions Coordinator or their designee, prospective student-athlete applicants to California State University, Sacramento who do not meet University admission standards and/or NCAA eligibility requirements. The SASA Committee will consider and provide recommendations to the Director of Admissions or their designee on whether an applicant should be granted special admission to the University. The primary information to be reviewed will be the applicant's overall academic performance as demonstrated by grade point average, SAT/ACT scores, and/or complete college coursework. Additional educational evidence may also be considered (e.g., academic performance issues, family background, and learning disability).

The SASA Committee will be comprised of the following individuals and should include at least four voting representatives (five preferred) present at any requested meeting.

1. NCAA Faculty Athletic Representative
2. Director of the Academic Advising Center (or their designee)
3. Representative from the Student-Athlete Resource Center (SARC)
4. Associate Athletic Director (e.g. Senior Woman Administrator or Associate Athletic Director)
5. Faculty member of the Intercollegiate Athletics Advisory Committee (IAAC)
6. Campus staff/faculty/administrator (outside of Athletics and/or SARC) and may include a representative from International Programs

and Global Education (IPGE) if the prospective student-athlete is an international student.

Other staff may attend a SASA Review Committee meeting to provide background or serve as support to the committee based on their relationship to the particular case. Example: head coach, admissions representative, SARC Director, International Programs and Global Education representative, etc.

The following process will be used in the review of each case:

1. If a prospective student-athlete does not meet University admission standards, is denied admission, or denied an admissions appeal to the University because he or she has demonstrated a lack of academic preparedness to succeed in college, the coach may request that the Athletic Admissions Coordinator or their designee schedule a meeting with the SASA Committee to review the admission status of the prospective student-athlete and determine whether the granting of a special admission is warranted. This request may also come from the Undergraduate Admissions Committee or a member of the Office of Global Education depending on the specific student and situation.
2. The prospective student-athlete, coach and/or athletic director are encouraged to forward or present any relevant information to the SASA Committee for its review and consideration. This can include the prospective student-athlete being present during the meeting to answer questions and present any background information they believe is important in considering their application.
3. The admission decision recommended by the SASA Committee for each applicant will be forwarded in writing to the Director of Admission or their designee via the Athletic Admissions Coordinator or their designee and should include any stipulations or expectations that relate to the student-athlete's admissions recommendation.
4. The Director of Admissions or their designee will communicate in writing the final admissions decision(s) on each applicant to the respective head coach, the athletics director and the Athletic Admissions Coordinator.
5. If any stipulations or expectations of the admissions decision(s) are recommended and accepted by the Director of Admissions or their designee, a written memorandum of understanding for the approved applicant(s) will be produced by the Athletic Admissions Coordinator or their designee and signed by the head coach, student-athlete, and athletic director.

Contact Information

Mark Orr, Director of Athletics
Monae Williams, Executive Assistant
Hornet Athletic Center
(916) 278-6348
www.hornetsports.com (http://www.hornetsports.com)

Faculty

BRAKEL, KAMDEN

CHRISTIANSEN, REGGIE

CONNORS, MICHAEL

DEDINI, RANDY

HARKLEROAD, BUNKY

HUBBS, CAMI

JACKSON, EDWARD

KATZ, BRIAN

KURTZ, KEVIN

LINENBERGER, MICHAEL

MCDANIELS, KENNY

MCGUSHIN, MARK

PEREZ, LORI

TAYLOR, TROY

SOLORIO, RANDY

SUTHERLAND, DAVID

VOLTA, RUBEN

ATIC 61. Men's Cross Country. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins mid-August and the season ends in mid-November.
Credit/No Credit

ATIC 62. Men's Tennis. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins the first day of the fall semester and the spring schedule ends the last of May.
Credit/No Credit

ATIC 63. Men's Track and Field. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Indoor Track and Field practice begins in the fall. The competitive season is in the winter. Outdoor Track and Field practice begins the first day of spring semester and the season ends the last week of May.
Credit/No Credit

ATIC 64. Men's Baseball. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins in the fall with the competitive season starting February 1. The 56-game schedule is followed by the NCAA Championships for qualified teams in May.
Credit/No Credit

ATIC 65. Men's Basketball. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins mid-October. The season ends in late February and leads to NCAA Championships for qualified teams.
Credit/No Credit

ATIC 66. Men's Football. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Daily afternoon practice begins in late August. The 10-11 game schedule is followed by NCAA Championships for qualified teams in late November. There is also spring practice which follows NCAA regulations as to starting date.
Credit/No Credit

ATIC 67. Men's Golf. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins fall semester Monday through Friday starting at noon.
Credit/No Credit

ATIC 68. Men's Soccer. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Morning and afternoon practices begin in mid-August in accordance with NCAA regulations. Competitive season begins the first week of September and ends in mid-November. Daily practices during fall semester are from 3:00-6:00 p.m. Daily practices during the spring semester are also from 3:00-6:00 p.m. beginning the third week in February and ending the last week in April. You must see the head coach for permission to tryout.
Credit/No Credit

ATIC 80. Women's Basketball. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins mid-October. The competitive season begins in November and continues to the end of February leading to the NCAA Championships for qualified teams.
Credit/No Credit

ATIC 81. Women's Golf. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins the second week of September. Competition consists of one or two matches in the fall and the remaining part of the schedule is during the spring semester. Interested student-athletes who would like to walk on and try out for the team should contact the coach.
Credit/No Credit

ATIC 82. Women's Soccer. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Morning and afternoon practices begin in mid-August in accordance with NCAA regulations. Competitive season begins the first week of September and ends in mid-November. Daily practices during fall semester are from 2:00-4:00 p.m.
Credit/No Credit

ATIC 83. Women's Gymnastics. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins in September. The competitive season starts in January and ends in late April with the NCAA Championships for qualified teams. Daily practices are 12:30-4:00 p.m. Student-athletes must contact the coach prior to tryouts.
Credit/No Credit

ATIC 84. Women's Softball. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins in the fall with the competitive season starting mid-February. The 56-game schedule is followed by NCAA Championships in late May for qualified teams. Daily practices are 1:30-5:30 p.m.
Credit/No Credit

ATIC 85. Women's Rowing. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Rowing accommodates both scholarship and walk-on athletes with no experience necessary. Tall cross-over student-athletes are encouraged to turn out. Daily practice starts in September, 6:00-8:30 a.m. There is a fall semester long distance race season and a traditional 'sprint' season in the spring semester, concluding with the National Championships in May. All student-athletes race. No limit on squad size. Freshman/Novice, Junior Varsity and Varsity squads, lightweight (130 lbs.) or open. Also, coxswains required. Should be under 115 lbs.
Credit/No Credit

ATIC 86. Women's Tennis. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins the first day of the fall semester and the spring schedule ends the last of May.
Credit/No Credit

ATIC 87. Women's Volleyball. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Preseason begins in mid-August. Competition begins September 1 and ends in mid-December with NCAA Championships for qualified teams. Daily practices are 2:00-5:00 p.m. Interested student-athletes must contact the coach prior to the preseason, be cleared by the Clearinghouse, and meet all eligibility requirements in order to participate in tryouts.
Credit/No Credit

ATIC 88. Women's Cross Country. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins mid-August and the season ends in mid-November.
Credit/No Credit

ATIC 89. Women's Track and Field. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Indoor Track and Field practice begins in the fall. The competitive season is in the Winter. Outdoor Track and Field practice begins the first day of spring semester and the season ends the last week of May.
Credit/No Credit

ATIC 167. Coaching of Football. 3 Units
Term Typically Offered: Fall, Spring

Examines all phases of the game, including offense, defense and special teams. Other topics covered are public/media relations, budget management, academic rules, marketing strategies, officiating, equipment and many other aspects. Lecture two hours, activity two hours.

ATIC 175. Sports Information Fieldwork. 1 - 3 Units
Prerequisite(s): JOUR 123 or instructor permission.
Term Typically Offered: Fall, Spring

Directed observations and work experience with intercollegiate athletics sports information support services. Field work is offered to give students orientation in the profession of sports information services. Supervision is provided by the instructional staff of the university. Each student is required to maintain a record of activities and assignments and to prepare periodic reports.
Note: May be repeated once for credit.

Credit/No Credit

ATIC 195. Field Experience in Intercollegiate Athletics. 1 - 3 Units
Term Typically Offered: Fall, Spring

Directed experience in athletics. Student interns keep records of daily experiences and prepare periodic progress reports. Succeeding enrollments should be in different sports.
Note: Registration requires prior approval of Director of Athletics.

Credit/No Credit

ATIC 199. Directed Individual Study. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual research, project or directed reading.
Note: Registration requires approval of the faculty under whom the individual work is to be conducted and the Director of Athletics.

Credit/No Credit

APPENDICES

Appendix A: Determination of Residency for Tuition Purposes

University requirements for establishing residency for tuition purposes are independent from requirements for establishing residency for other purposes, such as for tax purposes, or other state or institutional residency. These regulations were promulgated not to determine whether a student is a resident or nonresident of California, but rather to determine whether a student qualifies to pay university fees at the in-state or out-of-state rate. A resident for tuition purposes is someone who meets the requirements set forth in the Uniform Student Residency Requirements. These laws governing residency for tuition purposes at the California State University are California Education Code sections 68000-68086, 68120-68133, and 89705-89707.5, and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41900- 41915. This material can be viewed by accessing the California State University's website at www.calstate.edu/residency (http://www.calstate.edu/residency/)

Each campus's Admissions Office is responsible for determining the residency status of that campus's new and returning students based, as applicable, on the student's Application for Admission, Residency Questionnaire, and, as necessary, other information the student furnishes. A student who fails to provide sufficient information to establish resident status will be classified a nonresident.

Generally, establishing California residency for tuition purposes requires a combination of physical presence and intent to remain indefinitely in the State of California. An adult who, at least 366 days prior to the residency determination date for the term in which resident status is sought, can demonstrate that both physical presence in the state combined with evidence of intent to remain in California indefinitely, may establish California residency for tuition purposes. A student under the age of 19 by the residency determination date derives residency from the parent(s) with whom the student resides or most recently resided. In addition, non-citizens establish residency in the same manner as citizens, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States.

Evidence demonstrating intent to remain in the State of California indefinitely may vary from case to case, but will include, and is not necessarily limited to, the absence of residential ties to any other state, California voter registration and history of actually voting in California elections, maintaining California vehicle registration and driver's license, maintaining active California bank accounts, filing California income tax returns and listing a California address on federal tax returns, owning residential property or occupying or renting a residence where permanent belongings are kept, maintaining active memberships in California professional or social organizations, and maintaining a permanent military address and home of record in California.

Exceptions to the general residency requirements are contained in California Education Code sections 68070-68086 and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41906- 41906.6, 41910. Whether an exception applies to a particular student can only be determined after the submission of an application for admission and, as necessary, additional supporting documentation. Because neither the campus nor the Chancellor's Office staff may give legal advice, applicants are strongly urged to review the material for themselves and consult with a legal advisor.

Residency determination dates are set each term. They are:

Quarter Term Campuses

Fall	September 20
Winter	January 5
Spring	April 1
Summer	July 1

Semester Term Campuses

Fall	September 20
Winter[1]	January 5
Spring	January 25
Summer	June 1

[1] Applies only to winter term at CSU Stanislaus

CalState TEACH operates on a trimester system. The residency determination dates for CalState TEACH are as follows:

Fall	September 20
Spring	January 5
Summer	June 1

A student classified as a nonresident fora prior term may seek reclassification in any subsequent term; however, reclassification requires that, in addition to satisfying the requirements of physical presence and intent to remain indefinitely in the state, the student must also satisfy the requirement of financial independence. A student seeking reclassification is required to complete a Residency Questionnaire that includes questions concerning financial independence. For additional information on intent, physical presence and financial independence requirements, refer to the www.calstate.edu/residency (http://catalog.csus.edu/appendices/www.calstate.edu/residency/) website.

Residency Appeals

A student classified as a nonresident may appeal a final campus decision within 30 days of notification by the campus. Appeals will be accepted only if at least one of the following criteria applies:

1. The decisions was based on:
   a. a significant error of fact by the campus;
   b. a significant procedural error by the campus; or
   c. an incorrect application of the law which, if corrected would require that the student be reclassified as a California resident; and/or
2. Significant new information, not previously known or available to the student, became available after the date of the campus decision classifying the student as a nonresident and based on the new information, the classification as a nonresident is incorrect.

Instructions to submit an appeal and additional information can be found at https://calstate.edu/residency (http://catalog.csus.edu/appendices/www.calstate.edu/residency/)

California State University Chancellor's Office (http://calstate.infoready4.com/#competitionDetail/1760156).

Appeals via email, fax, and U.S. mail will NOT be accepted. A student with a documented disability who is requesting an accommodation to submit an appeal through the Calstate website should contact Student Affairs and Enrollment Management

The Chancellor's Office can either decide the appeal or send the matter back to the campus for further review.

A student incorrectly classified as a resident or incorrectly granted an exception from nonresident tuition is subject to reclassification as a nonresident or withdrawal of the exception and subject to payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student may also be subject to discipline pursuant to Section 41301 of Title 5 of the California Code of Regulations. A student previously classified as a resident or previously granted an exception is required to immediately notify the Admissions Office if the student has reason to believe that the student no longer qualifies as a resident or no longer meets the criteria for an exception.

Changes may have been made in the rate of nonresident tuition and in the statutes and regulations governing residency for tuition purposes in California between the time this information is published and the relevant residency determination date. Students are urged to review the statutes and regulations stated above.

Appendix B: Student Conduct

Title 5, California Code of Regulations, § 41301 Standards for Student Conduct.

Campus Community Values

The university is committed to maintaining a safe and healthy living and learning environment for students, faculty, and staff. Each member of the campus community should choose behaviors that contribute toward this end. Students are expected to be good citizens and to engage in responsible behaviors that reflect well upon their university, to be civil to one another and to others in the campus community, and contribute positively to student and university life.

Grounds for Student Discipline

Student behavior that is not consistent with the Student Conduct Code is addressed through an educational process that is designed to promote safety and good citizenship and, when necessary, impose appropriate consequences. The following are the grounds upon which student discipline can be based:

1. Dishonesty, including:
   a. Cheating, plagiarism, or other forms of academic dishonesty that are intended to gain unfair academic advantage.
   b. Furnishing false information to a University official, faculty member, or campus office.
   c. Forgery, alteration, or misuse of a University document, key, or identification instrument.
   d. Misrepresenting one's self to be an authorized agent of the University or one of its auxiliaries.
2. Unauthorized entry into, presence in, use of, or misuse of university property.
3. Willful, material and substantial disruption or obstruction of a university-related activity, or any on-campus activity.
4. Participating in an activity that substantially and materially disrupts the normal operations of the university, or infringes on the rights of members of the university community.
5. Willful, material, and substantial obstruction of the free flow of pedestrian or other traffic, on or leading to campus property or an off-campus university related activity.
6. Disorderly, lewd, indecent, or obscene behavior at a university related activity, or directed toward a member of the university community.
7. Conduct that threatens or endangers the health or safety of any person within or related to the university community, including physical abuse, threats, intimidation, harassment, or sexual misconduct.
8. Hazing or conspiracy to haze. Hazing is defined as any method of initiation or pre-initiation into a student organization or student body, whether or not the organization or body is officially recognized by an educational institution, which is likely to cause serious bodily injury to any former, current, or prospective student of any school, community college, college, university or other educational institution in this state (Penal Code 245.6), and in addition, any act likely to cause physical harm, personal degradation or disgrace resulting in physical or mental harm, to any former, current, or prospective student of any school, community college, college, university or other educational institution. The term “hazing” does not include customary athletic events or school sanctioned events. Neither the express or implied consent of a victim of hazing, nor the lack of active participation in a particular hazing incident is a defense. Apathy or acquiescence in the presence of hazing is not a neutral act, and is also a violation of this section.
9. Use, possession, manufacture, or distribution of illegal drugs or drug-related paraphernalia, (except as expressly permitted by law and university regulations) or the misuse of legal pharmaceutical drugs.
10. Use, possession, manufacture, or distribution of alcoholic beverages (except as expressly permitted by law and university regulations), or public intoxication while on campus or at a university related activity.
11. Theft of property or services from the university community, or misappropriation of university resources.
12. Unauthorized destruction, or damage to university property or other property in the university community.
13. Possession or misuse of firearms or guns, replicas, ammunition, explosives, fireworks, knives, other weapons, or dangerous chemicals (without the prior authorization of the campus president) on campus or at a university related activity.
14. Unauthorized recording, dissemination, or publication of academic presentations (including handwritten notes) for a commercial purpose.
15. Misuse of computer facilities or resources, including:
    a. Unauthorized entry into a file, for any purpose.
    b. Unauthorized transfer of a file.
    c. Use of another’s identification or password.
    d. Use of computing facilities, campus network, or other resources to interfere with the work of another member of the university community.
    e. Use of computing facilities and resources to send obscene or intimidating and abusive messages.
    f. Use of computing facilities and resources to interfere with normal University operations.
    g. Use of computing facilities and resources in violation of copyright laws.
    h. Violation of a campus computer use policy.
16. Violation of any published University policy, rule, regulation, or presidential order.

17. Failure to comply with directions of, or interference with, any University official or any public safety officer while acting in the performance of his/her duties.
18. Any act chargeable as a violation of a federal, state, or local law that poses a substantial threat to the safety or wellbeing of members of the University community, to property within the university community or poses a significant threat of disruption or interference with university operations.
19. Violation of the Student Conduct Procedures, including:
    a. Falsification, distortion, or misrepresentation of information related to a student discipline matter.
    b. Disruption or interference with the orderly progress of a student discipline proceeding.
    c. Initiation of a student discipline proceeding in bad faith.
    d. Attempting to discourage another from participating in the student discipline matter.
    e. Attempting to influence the impartiality of any participant in a student discipline matter.
    f. Verbal or physical harassment or intimidation of any participant in a student discipline matter.
    g. Failure to comply with the sanction(s) imposed under a student discipline proceeding.
20. Encouraging, permitting, or assisting another to do any act that could subject him or her to discipline.

Procedures for Enforcing This Code

The Chancellor shall adopt procedures to ensure students are afforded appropriate notice and an opportunity to be heard before the university imposes any sanction for a violation of the Student Conduct Code[1].

[1] At the time of publication, such procedures are set forth in California State University Executive Order 1098 (Revised March 29, 2019), available at https://calstate.policystat.com/policy/6742449/latest/.]

Application of This Code

Sanctions for the conduct listed above can be imposed on applicants, enrolled students, students between academic terms, graduates awaiting degrees, and students who withdraw from school while a disciplinary matter is pending. Conduct that threatens the safety or security of the campus community, or substantially disrupts the functions or operation of the University is within the jurisdiction of this Article regardless of whether it occurs on or off campus. Nothing in this Code may conflict with Education Code Section 66301 that prohibits disciplinary action against students based on behavior protected by the First Amendment.

Title 5, California Code of Regulations, Section 41302. Disposition of Fees: Campus Emergency; Interim Suspension

The President of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or designated representative, enter any campus of the California State University other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

Appendix C: Privacy Rights of Students in Education Records

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) (FERPA) and regulations adopted thereunder (34 C.F.R. 99) set out requirements designed to protect students' privacy in their educational records maintained by the campus. The statute and regulations govern access to certain student records maintained by the campus and the release of those records. FERPA provides that the campus must give students access to most records directly related to the student, and must also provide opportunity for a hearing to challenge the records if the student claims they are inaccurate, misleading, or otherwise inappropriate. The right to a hearing under this law does not include any right to challenge the appropriateness of a grade determined by the instructor. FERPA generally requires the campus obtain a student's written consent before releasing personally identifiable data about the student. The campus has adopted a set of policies and procedures governing implementation of the statute and the regulations. Copies of these policies and procedures may be obtained at Lassen Hall 3008. Among the types of information included in the campus statement of policies and procedures is:

1. the student records maintained and the information they contain;
2. the campus official responsible for maintaining each record;
3. the location of access lists indicating persons requesting or receiving information from the record;
4. policies for reviewing and expunging records;
5. student access rights to their records;
6. procedure for challenging the content of student records; and
7. the right of the student to file a complaint with the Department of Education.

The Department of Education has established an office and review board to investigate complaints and adjudicate violations. The designated office is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, D.C. 20202-5920.

FERPA authorizes the campus to release "directory information" pertaining to students. "Directory information" may include the student's name, address, telephone listing, electronic mail address, photograph, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, grade level, enrollment status,

degrees, honors, and awards received, and the most recent previous educational agency or institution the student attended. The campus may release the 'directory information' at any time unless the campus has received prior written objection from the student specifying the information the student requests not be released. Written objections should be sent to the Office of the University Registrar (Lassen Hall 2000).

The campus is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These persons have responsibilities in the campus's academic, administrative or service functions and have reason for accessing student records associated with their campus or other related academic responsibilities. Student records will be disclosed to the CSU Chancellor's Office to conduct research, to analyze trends, or to provide other administrative services. Student records may also be disclosed to other persons or organizations under certain conditions (e.g., as part of the accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; or to other institutions to which the student is transferring).

All student records of the California State University, including California State University, Sacramento, are kept in accordance with the provisions of the FERPA, as amended.

FERPA affords students certain rights with respect to their education records. These rights include:

1. The right to inspect and review the student's education records within 45 days of the day the University receives a request for access. Students should submit to the registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom request should be addressed.
2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records and the right to withdraw consent to disclosure FERPA authorizes disclosure without consent to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an auditor, clearinghouse, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility. In addition, the University may disclose education records without consent upon request a) to officials of another school in which a student seeks or intends to enroll, and b) to a parent who establishes that student's status as a dependent according to Internal Revenue Code.
4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by California State University, Sacramento to comply with the requirements of FERPA. The name and address of the office that administers FERPA is
   Family Policy Compliance Office
   U.S. Department of Education
   400 Maryland Avenue, SW
   Washington, DC 20202-4605
5. California State University, Sacramento shall exercise its prerogative within the Family Educational Rights and Privacy Act, as amended, and release directory information to any person, party, or agency, so long as the student has not requested confidentiality. University directory information is defined as that information contained in an education record of the student that generally would not be considered harmful or an invasion of privacy if disclosed. The following is considered Direct Information and Sacramento State will release and make available to the public unless notified by the student to withhold release of this information: Student's name, addresses, University email address, telephone number, likenesses used in University publications including photographs, date of birth, major field of study, class level, dates of attendance, enrollment status (part/full-time), degrees earned, awards and honors (e.g., Dean's Honor List) received, participation in University recognized activities and sports, weight and health of members of athletic teams and most recent educational agency or institution attended by the student. For student employees covered by the Unit 11 Collective Bargaining Agreement with the United Auto Workers (e.g., Teaching Associates, Graduate Assistants, and Instructional Student Assistants), directory information which may be released by the CSU to the UAW also includes: enrollment status (undergraduate vs. graduate, part-time vs. full-time), department employed and employment status (e.g., TA, GA, or ISA). Data may be added to or removed from the definition of directory information from time to time. Only currently enrolled students may withhold disclosure of directory information by filing a request form with the Office of the Registrar through the Student Services Counter.

For more information about FERPA, please go to the University Registrar's website (http://www.csus.edu/registrar/Confidentiality%20FERPA/).

Appendix D: Average Support Cost & Source of Funds Per Full-Time Equivalent Student

The total support cost per full-time equivalent student (FTES) includes the expenditures for current operations, including payments made to students in the form of financial aid, and all fully reimbursed programs contained in state appropriations. The average support cost is determined by dividing the total cost by the number of FTES. The total CSU 2019/20 budget amounts were $3,982,552,000 from state General Fund (GF) appropriations and before adding $39.3 million CalPERS retirement adjustment, $2,499,138,000 from gross tuition revenue, and $656,748,000 from other fee revenues for a total of $7,138,439,000. The 2019/20 resident FTES target is 374,131 and the nonresident FTES based on past-year actual is 24,026 for a total of 398,157 FTES. The GF appropriation is applicable to resident students only whereas fee

revenues are collected from resident and nonresident students. FTES is determined by dividing the total academic student load (e.g. 15 units per semester) (the figure used here to define a full-time student's academic load).

2018/19	Amount	Average Cost Per FTE Student	Percentage
State Appropriation (GF)[1]	3,982,552,000	10,645	57.3%
Gross Tuition Revenue[2]	2,499,138,000	6,277	33.8%
Other Fees Reveue[2]	656,748,000	1,649	8.9%
Total Support Cost	**7,138,439,000**	**18,571**	**100%**

[1] Represents state GF appropriation in the Budget Act of 2018/19; GF is divisible by resident students only (364,131 FTES).

[2] Represents CSU Operating Fund, gross tuition and other fees revenue amounts submitted in campus August 2018/19 final budgets. Revenues are divisible by resident and nonresident students (388,547 FTES).

The 2019/20 average support cost per FTES based on GF appropriation and net tuition fee revenue only is $16,922 and when including all three sources as indicated below is $18,571, which includes all fee revenue (e.g. tuition fees, application fees, and other campus mandatory fees) in the CSU Operating Fund. Of this amount, the average net tuition and other fee revenue per FTES is $7,926.

The average CSU 2019/20 academic year, resident, undergraduate student basic tuition and other mandatory fees required to apply to, enroll in, or attend the university is $7,337 ($5,742 tuition fee plus $1,595 average campus-based fees). However, the costs paid by individual students will vary depending on campus, program, and whether a student is part-time, full-time, resident, or nonresident.

Appendix E: Procedure for the Establishment or Abolishment of Campus-Based Mandatory Fees

The law governing the California State University provides that specific campus fees defined as mandatory, such as a *student association fee* and a *student center fee*, may be established. A *student association fee* must be established upon a favorable vote of two-thirds of the students voting in an election held for this purpose (Education Code, Section 89300). The campus President may adjust the *student association fee* only after the fee adjustment has been approved by a majority of students voting in a referendum established for that purpose. The required fee shall be subject to referendum at any time upon the presentation of a petition to the campus President containing the signatures of 10 percent of the regularly enrolled students at the university. *Student association fees* support a variety of cultural and recreational programs, childcare centers, and special student support programs. A *student center fee* may be established only after a fee referendum is held which approves by a two-thirds favorable vote the establishment of the fee (Education Code, Section 89304). Once bonds are issued, authority to set and adjust *student center fees* is governed by provisions of the State University Revenue Bond Act of 1947, including, but not limited to, Education Code sections 90012, 90027, and 90068.

The process to establish and adjust other campus-based mandatory fees requires consideration by the campus fee advisory committee and a student referendum as established by Executive Order 1102, Section III. The campus President may use alternate consultation mechanisms if he/she determines that a referendum is not the best mechanism to achieve appropriate and meaningful consultation. Results of the referendum and the fee committee review are advisory to the campus President. The President may adjust campus-based mandatory fees but must request the Chancellor to establish a new mandatory fee. The President shall provide to the campus fee advisory committee a report of all campus-based mandatory fees. The campus shall report annually to the Chancellor a complete inventory of all campus-based mandatory fees.

For more information or questions, please contact the Budget Office in the CSU Chancellor's Office at (562) 951-4560.

Appendix F: Nondiscrimination Policy and Complaint Procedures

Protected Status: Genetic Information, Marital Status, Medical Condition, Nationality, Race or Ethnicity (including color or ancestry), Religion or Religious Creed, and Veteran or Military Status.

California State University does not discriminate on the basis of age, genetic information, marital status, medical condition, nationality, race or ethnicity (including color and ancestry), religion (or religious creed), and veteran or military status - as these terms are defined in CSU Executive Order 1097 - in its programs and activities, including admission and access. Federal and state laws, including Title VI of the Civil Rights Act of 1964 and the California Equity in Higher Education Act, prohibit such discrimination. The Office for Equal Opportunity has been designated to coordinate the efforts of California State University, Sacramento to comply with all applicable federal and state laws prohibiting discrimination on these bases. Inquiries concerning compliance may be presented to William 'Skip' Bishop, Director of Equal Opportunity, at California State University, Sacramento 6000 J Street, Sacramento, CA 95819-6032, (916) 278-5770. CSU Executive Order 1097 Revised March 29, 2019 (https://calstate.policystat.com/policy/6742744/latest/) (or any successor executive order) is the systemwide procedure for all complaints of discrimination, harassment or retaliation ***made by students*** against the CSU, a CSU employee, other CSU students or a third party.

Protected Status: Disability

The California State University does not discriminate on the basis of disability (physical and mental) - as this term is defined in CSU Executive Order 1097 - in its programs and activities, including admission and access. Federal and state laws, including sections 504 and 508 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, prohibit such discrimination. The Office for Equal Opportunity has been designated to coordinate the efforts of California State University, Sacramento to comply with all applicable federal and state laws prohibiting discrimination on the basis of disability. Inquiries concerning compliance may be presented to William 'Skip' Bishop, Director of Equal Opportunity, at California State University, Sacramento 6000 J Street, Sacramento, CA 95819-6032, (916) 278-5770. CSU Executive Order 1097 Revised March 29, 2019 (https://calstate.policystat.com/policy/6742744/latest/) (or any successor executive order) is the systemwide procedure for all complaints of discrimination, harassment or

retaliation ***made by students*** against the CSU, a CSU employee, other CSU students or a third party.

Protected Status: Gender (or sex), Gender Identity (including transgender), Gender Expression and Sexual Orientation

California State University does not discriminate on the basis of gender (or sex), gender (including transgender) identity, gender expression or sexual orientation - as these terms are defined in CSU policy - in its programs and activities, including admission and access. Federal and state laws, including Title IX of the Education Amendments of 1972, prohibit such discrimination. William 'Skip' Bishop, the Director of Equal Opportunity, has been designated to coordinate the efforts of California State University, Sacramento to comply with all applicable federal and state laws prohibiting discrimination on these bases. Inquires concerning compliance may be presented to the Office for Equal Opportunity at (916) 278-5770, equalopportunity@csus.edu, or visit our website at www.csus.edu/hr/departments/equal-opportunity/ (http://www.csus.edu/hr/departments/equal-opportunity/). The California State University is committed to providing equal opportunities to all CSU students in all campus programs, including intercollegiate athletics. CSU Executive Order 1097 Revised March 29, 2019 (https://calstate.policystat.com/policy/6742744/latest/) (or any successor executive order) is the systemwide procedure for all complaints of discrimination, harassment or retaliation ***made by students*** against the CSU, a CSU employee, other CSU students or a third party.

As a matter of federal and state law and California State University policy, the following types of conduct are prohibited:

Sex Discrimination or Gender Discrimination means an adverse action taken against a student by the CSU, a CSU employee, or another student because of gender or sex (including sexual harassment, sexual misconduct, domestic violence, dating violence, and stalking).

Sexual Harassment, a form of sex discrimination, is unwelcome verbal, nonverbal or physical conduct of a sexual nature that includes, but is not limited, to sexual advances, requests for sexual favors, and any other conduct of a sexual nature where:

1. Submission to, or rejection of, the conduct is explicitly or implicitly used as the basis for any decision affecting a complainant's status or progress, or access to benefits and services, honors, programs, or activities available at or through the university; **or**
2. The conduct is sufficiently severe, persistent or pervasive that its effect, whether or not intended, could be considered by a reasonable person in the shoes of the complainant, and is in fact considered by the complainant, as limiting his or her ability to participate in or benefit from the services, activities or opportunities offered by the university; **or**
3. The conduct is sufficiently severe, persistent or pervasive that its effect, whether or not intended, could be considered by a reasonable person in the shoes of the complainant, and is in fact considered by the complainant, as creating an intimidating, hostile or offensive environment.

Sexual harassment could include being forced to engage in unwanted sexual contact as a condition of membership in a student organization; being subjected to video exploitation or a campaign of sexually explicit graffiti; or frequently being exposed to unwanted images of a sexual nature in a classroom that are unrelated to the coursework.

Sexual harassment also includes acts of verbal, non-verbal or physical aggression, intimidation or hostility based on gender or sex-stereotyping, even if those acts do not involve conduct of a sexual nature.

Executive Order 1097 covers unwelcome conduct of a sexual nature. While romantic, sexual, intimate, personal or social relationships between members of the university community may begin as consensual, they may evolve into situations that lead to sexual harassment or sexual misconduct, including dating or domestic violence, or stalking, subject to this policy.

Claiming that the conduct was not motivated by sexual desire is not a defense to a complaint of harassment based on gender.

Sexual Misconduct: All sexual activity between members of the university community must be based on affirmative consent. Engaging in any sexual activity without first obtaining affirmative consent to the specific activity is sexual misconduct, whether or not the conduct violates any civil or criminal law. Sexual activity includes, but is not limited to, kissing, touching intimate body parts, fondling, intercourse, penetration of any body part, and oral sex. It also includes any unwelcome physical acts, such as unwelcome sexual touching, sexual assault, sexual battery, rape, and dating violence. When based on gender, domestic violence or stalking also constitutes sexual misconduct. Sexual misconduct may include using physical force, violence, threat or intimidation, ignoring the objections of the other person, causing the other person's intoxication or incapacitation through the use of drugs or alcohol, or taking advantage of the other person's incapacitation (including voluntary intoxication) to engage in sexual activity. Men as well as women can be victims of these forms of sexual misconduct. Sexual activity with a minor is never consensual when the complainant is under 18 years old, because the minor is considered incapable of giving legal consent due to age.

Sexual Assault is a form of sexual misconduct and is an attempt, coupled with the ability, to commit a violent injury on the person of another because of that person's gender or sex.

Sexual Battery is a form of sexual misconduct and is any willful and unlawful use of force or violence upon the person of another because of that person's gender or sex as well as touching an intimate part of another person against that person's will and for the purpose of sexual arousal, gratification or abuse.

Rape is a form of sexual misconduct and is non-consensual sexual intercourse that may also involve the use of threat of force, violence, or immediate and unlawful bodily injury or threats of future retaliation and duress. Any sexual penetration, however slight, is sufficient to constitute rape. Sexual acts including intercourse are considered non-consensual when a person is incapable of giving consent because they are incapacitated from alcohol and/or drugs, is under 18 years old, or if a mental disorder or developmental or physical disability renders the person incapable of giving consent. The respondent's relationship to the person (such as family member, spouse, friend, acquaintance or stranger) is irrelevant.

Acquaintance Rape is a form of sexual misconduct committed by an individual known to the victim. This includes a person the victim may have just met; i.e., at a party, introduced through a friend, or on a social networking website.

Affirmative Consent means an informed, affirmative, conscious, voluntary, and mutual agreement to engage in sexual activity. It is the responsibility of each person involved in the sexual activity to ensure that they have the affirmative consent of the other participant(s) to engage in the sexual

activity. Lack of protest or resistance does not mean consent nor does silence mean consent. Affirmative consent must be voluntary, and given without coercion, force, threats or intimidation.

- The existence of a dating or social relationship between those involved, or the fact of past sexual activities between them, should never by itself be assumed to be an indicator of affirmative consent. A request for someone to use a condom or birth control does not, in and of itself, constitute affirmative consent.
- Affirmative consent can be withdrawn or revoked. Consent to one form of sexual activity (or sexual act) does not constitute consent to other forms of sexual activity. Consent given to sexual activity on one occasion does not constitute consent on another occasion. There must always be mutual and affirmative consent to engage in sexual activity. Consent must be ongoing throughout a sexual activity and can be revoked at any time, including after penetration. Once consent is withdrawn or revoked, the sexual activity must stop immediately.
- A person who is incapacitated cannot give affirmative consent. A person is unable to consent when they are asleep, unconscious or is incapacitated due to the influence of drugs, alcohol, or medication so that they could not understand the fact, nature or extent of the sexual activity. A person is incapacitated if they lack the physical and/ or mental ability to make informed, rational decisions. Whether an intoxicated person (as a result of using alcohol or other drugs) is incapacitated depends on the extent to which the alcohol or other drugs impact the person's decision making capacity, awareness of consequences, and ability to make fully informed judgments. A person's own intoxication or incapacitation from drugs or alcohol does not diminish that person's responsibility to obtain affirmative consent before engaging in sexual activity.
- A person with a medical or mental disability may also lack the capacity to give consent.
- Sexual activity with a minor (a person under 18 years old) is not consensual, because a minor is considered incapable of giving legal consent due to age.
- It shall not be a valid excuse that a person affirmatively consented to the sexual activity if the respondent knew or reasonably should have known that the person was unable to consent to the sexual activity under any of the following circumstances:
  - The person was asleep or unconscious;
  - The person was incapacitated due to the influence of drugs, alcohol or medication, so that the person could not understand the fact, nature or extent of the sexual activity;
  - The person was unable to communicate due to a mental or physical condition.
- It shall not be a valid excuse that the respondent believed that the person consented to the sexual activity under either of the following circumstances:
  - The respondent's belief in affirmative consent arose from the intoxication or recklessness of the respondent;
  - The respondent did not take reasonable steps, in the circumstances known to the respondent at the time, to ascertain whether the person affirmatively consented.

Consensual Relationships: Consensual relationship means a sexual or romantic relationship between two persons who voluntarily enter into such a relationship. While sexual and/or romantic relationships between members of the university community may begin as consensual, they may evolve into situations that lead to discrimination, harassment, retaliation, sexual misconduct, dating or domestic violence, or stalking.

- A University employee shall not enter into a consensual relationship with a student or employee over whom they exercise direct or otherwise significant academic, administrative, supervisory, evaluative, counseling, or extracurricular authority. In the event such a relationship already exists, each campus shall develop a procedure to reassign such authority to avoid violations of policy.
- This prohibition does not limit the right of an employee to make a recommendation on the personnel matters concerning a family or household member where the right to make recommendations on such personnel matters is explicitly provided for in the applicable collective bargaining agreement or MPP/confidential personnel plan.

Domestic Violence is abuse committed against someone who is a current or former spouse, current or former cohabitant, someone with whom the abuser has a child, someone with whom the abuser has or had a dating or engagement relationship, or a person similarly situated under California domestic or family violence law. Cohabitant means two unrelated persons living together for a substantial period of time, resulting in some permanency of relationship. It does not include roommates who do not have a romantic, intimate, or sexual relationship. Factors that may determine whether persons are cohabiting include, but are not limited to (1) sexual relations between the parties while sharing the same living quarters, (2) sharing of income or expenses, (3) joint use or ownership of property, (4) whether the parties hold themselves out as spouses, (5) the continuity of the relationship, and (6) the length of the relationship. For purposes of this definition, "abuse" means intentionally or recklessly causing or attempting to cause bodily injury or placing another person in reasonable apprehension of imminent serious bodily injury to himself or herself, or another. Abuse does not include non-physical, emotional distress or injury.

Dating Violence is abuse committed by a person who is or has been in a social or dating relationship of a romantic or intimate nature with the victim. This may include someone the victim just met; i.e., at a party, introduced through a friend, or on a social networking website. For purposes of this definition, "abuse" means intentionally or recklessly causing or attempting to cause bodily injury or placing another person in reasonable apprehension of imminent serious bodily injury to himself or herself, or another. Abuse does not include non-physical, emotional distress or injury.

Stalking means a repeated course of conduct directed at a specific person that would cause a reasonable person to fear for their or others' safety or to suffer substantial emotional distress. For purposes of this definition:

- Course of conduct means two or more acts, including but not limited to, acts in which the stalker directly, indirectly, or through third parties, by any action, method, device, or means, follows, monitors, observes, surveys, threatens, or communicates to or about a person, or interferes with a person's property;
- Reasonable person means a reasonable person under similar circumstances and with the same protected status as the complainant;
- Substantial emotional distress means significant mental suffering or anguish that may, but does not necessarily, require medical or other professional treatment or counseling.

See further information on California State University, Sacramento's sexual violence prevention and education statement, Title IX Notice of Nondiscrimination (which includes facts and myths about

sexual violence) and Victim's Rights and Options Notice, at http://www.csus.edu/titleix/

Who to Contact If You Have Complaints, Questions or Concerns

Title IX requires the university to designate a Title IX Coordinator to monitor and oversee overall Title IX compliance. The campus Title IX Coordinator is available to explain and discuss the university's complaint process, including the investigation and hearing process; the availability of reasonable supportive measures (both on and off campus regardless of whether the person chooses to report the conduct); the right to file a criminal complaint (for example, in cases of sexual violence); how confidentiality is handled; and other related matters. ***If you are in the midst of an emergency, please call the police immediately by dialing 9-1-1.***

Campus Title IX Coordinator:

William 'Skip' Bishop
Director for Equal Opportunity
William.bishop@csus.edu
(916) 278-5770
Monday—Friday, 8:00 am—5:00 pm

Deputy Title IX Coordinators:

Alison Nygard
Office for Equal Opportunity Investigator
alison.morgan@csus.edu
916-278-5770
Monday—Friday, 8:00 am—5:00 pm

Stephanie Cruz
Office for Equal Opportunity Investigator
stephanie.cruz@csus.edu
916-278-5770
Monday—Friday, 8:00 am—5:00 pm

Lois Mattice
Associate Director of Athletics/SWA
Athletic Center 2140
lmattice@csus.edu
916-278-7548
Monday – Friday, 8:00 am – 5:00 pm

Tom Carroll
Interim Director of Student Conduct
Lassen Hall 3008
tcarroll@csus.edu
916-278-6060
Monday – Friday, 8:00 am – 5:00 pm

Aja Holmes
Senior Associate Director, Residential Life
Sierra Hall
aja.holmes@csus.edu
916-278-6655
Monday – Friday, 8:00 am – 5:00 pm

University Police:

Mark Iwasa
6000 J Street Sacramento CA 95819-6029
police@csus.edu
911 (emergencies only)
(916) 278-6800

University Police Service Center:

University Union
916-278-2788
Hours: Monday—Friday 8:30 a.m.—Noon and 1:00—4:30 p.m.

Local Police:

Sacramento Police Department
5770 Freeport Boulevard, Suite 100
Sacramento, CA 95822
Non-emergency: 916-264-5471
Emergency: 9-1-1

Title IX requires the university to adopt and publish complaint procedures that provide for prompt and equitable resolution of gender discrimination complaints, including sexual harassment and misconduct, as well as provide training, education and preventive measures related to sex discrimination. CSU Executive Order 1097 (www.calstate.edu/EO/EO-1097-rev- 10-5-16.pdf (http://catalog.csus.edu/appendices/www.calstate.edu/EO/EO-1097-rev-%2010-5-16.pdf)) (or any successor policy) is the systemwide procedure for all complaints of discrimination, harassment or retaliation **made by students** against the CSU, a CSU employee, other CSU students or a third party.

Duty to Report. Except as provided below under confidentiality and sexual misconduct, dating violence, domestic violence, and stalking, **any** university employee who knows or has reason to know of allegations or acts that violate university policy shall promptly inform the Title IX Coordinator. These employees are required to disclose all information including the names of the parties, **even where the person has requested that their name remain confidential**. The Title IX Coordinator will determine whether confidentiality is appropriate given the circumstances of each such incident. (See confidential reporting options outlined below.)

Regardless of whether an alleged victim of gender discrimination ultimately files a complaint, if the campus knows or has reason to know about possible sexual discrimination, harassment or misconduct, it must review the matter to determine if an investigation is warranted. The campus must then take appropriate steps to eliminate any gender discrimination/harassment/misconduct, prevent its recurrence, and remedy its effects.

U.S. Department of Education, Office for Civil Rights:

(800) 421-3481 (main office), or (415) 486-5555 (California office), or (800) 877-8339 (TDD) or ocr@ed.gov (main office) or ocr.sanfrancisco@ed.gov (California office)
If you wish to fill out a complaint form online with the OCR, you may do so at:
http://www2.ed.gov/about/offices/list/ocr/complaintintro.html.

If you wish to fill out a complaint form online with the OCR, you may do so at: www2.ed.gov/about/offices/list/ocr/ complaintintro.html (http://www2.ed.gov/about/offices/list/ocr/complaintintro.html).

Safety of the Campus Community is Primary

The university's primary concern is the safety of its campus community members. The use of alcohol or drugs never makes the victim at fault for gender discrimination, harassment or sexual misconduct; therefore, victims should not be deterred from reporting incidents of sexual misconduct out of a concern that they might be disciplined for related

violations of drug, alcohol or other university policies. Except in extreme circumstances, victims of sexual misconduct shall not be subject to discipline for related violations of the Student Conduct Code.

Information Regarding Campus, Criminal and Civil Consequences of Committing Acts of Sexual Violence

Individuals alleged to have committed sexual misconduct may face criminal prosecution by law enforcement and may incur penalties as a result of civil litigation. In addition, students may face discipline at the university, up to including suspension or expulsion and withholding of their degrees. Employees may face sanctions up to and including suspension, demotion, or dismissal from employment, pursuant to established CSU policies and provisions of applicable collective bargaining unit agreements.,

Students who are charged by the university with gender discrimination, harassment or sexual misconduct will be subject to discipline, pursuant to the California State University Student Conduct Procedures (see Executive Order 1098 at https://calstate.policystat.com/policy/6742449/latest/ or any successor executive order) and will be subject to appropriate sanctions. In addition, during any investigation, the university may implement interim measures in order to maintain a safe and non-discriminatory educational environment. Such measures may include, but not be limited to: immediate interim suspension from the university; a required move from university-owned or affiliated housing; adjustments to course schedule; and/or prohibition from contact with parties involved in the alleged incident.

Confidentiality and Sexual Misconduct, Dating Violence, Domestic Violence and Stalking

The University encourages victims of sexual misconduct, dating violence, domestic violence, or stalking (collectively sexual misconduct) to talk to someone about what happened – so they can get the support they need, and so the university can respond appropriately.

Privileged and Confidential Communications

Physicians, Psychotherapists, Professional Counselors, Licensed Clinical Social Workers, and Clergy – Physicians, psychotherapists, professional, licensed counselors, licensed clinical social workers, and clergy who work or volunteer on or off campus, acting solely in those roles or capacities as part of their employment, and who provide medical or mental health treatment or counseling (and those who act under their supervision, including all individuals who work or volunteer in their centers and offices) may not report any information about an incident of sexual misconduct to anyone else at the University, including the Title IX Coordinator, without the victim's consent. A victim can seek assistance and support from physicians, psychotherapists, professional, licensed counselors, licensed clinical social workers, and clergy without triggering a university investigation that could reveal the victim's identity or the fact of the victim's disclosure. However, see limited exceptions below regarding when health care practitioners must report to local law enforcement agencies. Health care practitioners should explain these limited exceptions to victims, if applicable.

Sexual Assault and Domestic Violence Counselors and Advocates – Sexual assault and domestic violence counselors and advocates who work or volunteer on or off campus in sexual assault centers, victim advocacy offices, women's centers, and health centers (including those who act in that role under their supervision, along with nonprofessional counselors or advocates who or volunteer in sexual assault centers, victim advocacy offices, women's centers, gender equity centers, or health centers) may talk to a victim without revealing any information about the victim and the incident of sexual misconduct to anyone else at the University, including the Title IX Coordinator, without the victim's consent. A victim can seek assistance and support from these counselors and advocates without triggering a university investigation that could reveal his/her identity or that a victim disclosed an incident to them. However, see limited exceptions below regarding when sexual assault and domestic violence counselors and advocates must report to local law enforcement agencies. Counselors and advocates should explain these limited exceptions to victims, if applicable.

The university will be unable to conduct an investigation into a particular incident or pursue disciplinary action against a perpetrator if a victim chooses to (1) speak only to a physician, professional licensed counselor, licensed clinical social worker, clergy member, sexual assault counselor, domestic violence counselor or advocate; and (2) maintain complete confidentiality. Even so, these individuals will assist victims in receiving other necessary protection and support, such as victim advocacy, disability services, medical/health or mental health services, or legal services, and will advise victims regarding their right to file a Title IX complaint with the University and a separate complaint with local or university police. If a victim insists on confidentiality, such professionals, counselors and advocates will likely not be able to assist the victim with: university academic support or accommodations; changes to university-based living or working schedules; or adjustments to course schedules. A victim who at first requests confidentiality may later decide to file a complaint with the university or report the incident to the police, and thus have the incident fully investigated. These counselors and advocates can provide victims with that assistance if requested by the victim. These counselors and advocates will also explain that Title IX includes protections against retaliation, and that the university will not only take steps to prevent retaliation when it knows or reasonably should know of possible retaliation, but will also take strong responsive action if it occurs.

Exceptions: Under California law, any health practitioner employed in a health facility, clinic, physician's office, or local or state public health department or clinic is required to make a report to local law enforcement if he or she provides medical services for a ***physical condition*** to a patient/victim who he or she knows or reasonably suspects is suffering from (1) a wound or physical injury inflicted by a firearm; or (2) any wound or other physical injury inflicted upon a victim where the injury is the result of assaultive or abusive conduct (including sexual misconduct, domestic violence, and dating violence). This exception does not apply to sexual assault and domestic violence counselors and advocates. Health care practitioners should explain this limited exception to victims, if applicable.

Additionally, under California law, ***all*** professionals described above (physicians, psychotherapists, professional counselors, licensed clinical social workers, clergy, and sexual assault and domestic violence counselors and advocates) are mandatory child abuse and neglect reporters, and are required to report incidents involving victims under 18 years of age to local law enforcement. These professionals will explain this limited exception to victims, if applicable.

Finally, some or all of these professionals may also have reporting obligations under California law to: (1) local law enforcement in cases involving threats of immediate or imminent harm to self or others where disclosure of the information is necessary to prevent the threatened danger; or (2) to the court if compelled by court order or subpoena in a criminal proceeding related to the sexual violence incident. If applicable, these professionals will explain this limited exception to victims.

Reporting to University or Local Police

If a victim reports to local or University Police about sexual misconduct, the police are required to notify victims that their names will become a matter of public record unless confidentiality is requested. If a victim requests that their identity be kept confidential, their name will not become a matter of public record and the police will not report the victim's identity to anyone else at the University, including the Title IX Coordinator. University Police will, however, report the facts of the incident itself to the Title IX Coordinator being sure not to reveal to the Title IX Coordinator victim names/identities or compromise their own criminal investigation. The university is required by the federal Clery Act to report certain types of crimes (including certain sex offenses) in statistical reports. However, while the university will report the type of incident in the annual crime statistics report known as the Annual Security Report, victim names/identities will not be revealed.

Reporting to the Title IX Coordinator and Other University Employees

Most university employees have a duty to report sexual misconduct incidents when they are on notice of it. When a victim tells the Title IX Coordinator or another University employee about a sexual misconduct incident, the victim has the right to expect the University to take immediate and appropriate steps to investigate what happened and to resolve the matter promptly and equitably. In all cases, the university strongly encourages victims to report incidents of sexual misconduct directly to the campus Title IX Coordinator. As detailed above, in the 'Privileged and Confidential Communications' section of this policy, all university employees except physicians, licensed professional counselors, licensed clinical social workers, sexual assault counselors and advocates, must report to the Title IX Coordinator all relevant details about any incidents of sexual misconduct of which they become aware. The university will need to determine what happened - and will need to know the names of the victim(s) and perpetrator(s), any witnesses, and any other relevant facts, including the date, time and specific location of the incident.

To the extent possible, information reported to the Title IX Coordinator or other University employees will be shared only with individuals responsible for handling the University's response to the incident. The University will protect the privacy of individuals involved in a sexual misconduct incident except as otherwise required by law or University policy. A sexual misconduct report may result in the gathering of extremely sensitive information about individuals in the campus community. While such information is considered confidential, University policy regarding access to public records and disclosure of personal information may require disclosure of certain information concerning a report of sexual misconduct. In such cases, efforts will be made to redact the records, as appropriate, in order to protect the victim's identity and privacy and the privacy of other involved individuals. Except as detailed in the section on Privileged and Confidential Communications above, no University employee, including the Title IX Coordinator, should disclose the victim's identity to the police without the victim's consent or unless the victim has also reported the incident to the police.

If a victim requests of the Title IX Coordinator or another University employee that their identity remain completely confidential, the Title IX Coordinator will explain that the University cannot always honor that request and guarantee complete confidentiality. If a victim wishes to remain confidential or request that no investigation be conducted or disciplinary action taken, the University must weigh that request against the University's obligation to provide a safe, non-discriminatory environment for all students, employees, and third parties, including the victim. Under those circumstances, the Title IX Coordinator will determine whether the victim's request for complete confidentiality and/or no investigation can be honored under the facts and circumstances of the particular case, including whether the University has a legal obligation to report the incident, conduct an investigation or take other appropriate steps. Without information about a victim's identity, the University's ability to meaningfully investigate the incident and pursue disciplinary action against the perpetrator may be severely limited. See Executive Order 1095 for further details around confidential reporting, and other related matters (https://calstate.policystat.com/policy/6741651/latest/).

Additional Resources

Campus Services

Sacramento State's Violence and Sexual Assault Support Services

- Student Health & Counseling Services at The WELL – www.csus.edu/shcs (http://www.csus.edu/shcs/)
- WEAVE (via contract with Sacramento State) 916-920-2952 http://www.weaveinc.org/
- Women's Resource Center: 916-278-7388 – http://www.csus.edu/wrc/
- Multi-Cultural Center: 916-278-6101 – http://www.csus.edu/mcc/
- PRIDE Center: 916-278-8720 – http://www.csus.edu/pride/
- Services to Students with Disabilities: 916-278-6955 – http://www.csus.edu/sswd/
- Veterans Success Center: 916-278-6733 – http://www.csus.edu/vets/

- ASI Legal Services (Please contact Associated Students, Inc): http://www.asi.csus.edu/
- Parents & Families Program: 916-278-4353 – http://www.csus.edu/student/parents/
- Student Code of Conduct: http://www.csus.edu/umanual/student/UMS16150.HTM
- California State University, Sacramento's Notice of Nondiscrimination on the Basis of Sex, Myths and Facts about Sexual Violence, and Rights and Options for Victims of Sexual Violence, Dating Violence, Domestic Violence, and Stalking: http://www.csus.edu/titleix/

Off-Campus Services

- U.S. Department of Education, regional office:
  Office for Civil Rights
  50 United Nations Plaza
  San Francisco, CA 94102
  (415) 486-5555
  TDD (877) 521-2172
- U.S. Department of Education, national office:
  Office for Civil Rights
  (800) 872-5327
- Know Your Rights about Title IX:
  http://www2.ed.gov/about/offices/list/ocr/docs/title-ix-rights-201104.html
  California Coalition Against Sexual Assault (http://calcasa.org/)
  1215 K. Street, Suite 1850
  Sacramento, CA 95814
  (916) 446-2520
- WEAVE: 916-920-2952 http://www.weaveinc.org/

- Domestic and Family Violence (http://ovc.ncjrs.gov/topic.aspx?topicid=27/), Office of Justice Programs, United States Department of Justice
- National Institute of Justice: Intimate Partner Violence (http://www.nij.gov/topics/crime/intimate-partner-violence/), Office of Justice Programs, United States Department of Justice
- National Domestic Violence Hotline: 1-800-799-SAFE (7233) (http://www.thehotline.org/)
- Office of Violence against Women (https://www.justice.gov/ovw/), United States Department of Justice
- Centers for Disease Control and Prevention: Intimate Partner Violence (http://www.cdc.gov/ViolencePrevention/intimatepartnerviolence/)
- Defending Childhood (http://www.justice.gov/defendingchildhood/), United States Department of Justice
- C A L C A S A (The California Coalition Against Sexual Assault)
  1215 K ST, Suite 1100 Esquire Plaza
  Sacramento, CA 95814
  916-446-2520
- Sacramento County Domestic Violence Hotline: 916-920-2952
- National Dating Abuse Helpline: 1-866-331-9474
- National Sexual Assault Hotline: 1-800-656-HOPE (4673)
- My Sister's House: 916-428-3271
- A Community for Peace: 916-728-7210
- Sacramento County Mental Health Crisis Intervention (24/7): 1-888-881-4881
- Suicide Prevention Crisis Line: 916-368-3111
- National Suicide Prevention Helpline: 1-800-273-8255 – TTY: 1-800-799-4889
- California Department of Veterans Affairs: 1-800-952-5626 - (TTY): 1-800-324-5966
- California Department of Rehabilitation: 916-324-1313; 916-558-5807 (TTY) https://www.dor.ca.gov/
- Sacramento Regional Human Rights/Fair Housing Commission: 916-444-6903 http://www.hrfh.org/
- California Department of Fair Employment and Housing: 1-800-884-1684 http://www.dfeh.ca.gov/
- Legal Services of Northern California Legal Aid Office: 916-551-2150 http://lsnc.net/

Inquiries Concerning Compliance

Inquiries concerning compliance or the application of these laws and programs and activities of Sacramento State may be referred to the specific campus officers identified above or to the Regional Director of the Office for Civil Rights, United States Department of Education, 50 Beale Street, Suite 7200, San Francisco, California 94105.

Appendix G: University Library Policy and Procedures

(916) 278-6926
library.csus.edu (http://www.library.csus.edu)

Library Hours

For Library hours visit http://library.csus.edu/hours/ or call (916) 278-6926.

Library Privileges

The Sacramento State OneCard serves as a library card. Students, faculty, and staff must present a valid OneCard each time an item is checked out or renewed. Library privileges are nontransferable and the OneCard may be used only by the person to whom it has been issued.

Loan Periods and Renewal Procedures

The basic loan period is 16 weeks, with automatic renewals of the same period. All items are subject to recall. All due date reminders and other notices are sent via Sac State email.

Overdue and Lost Item Fees

An item is overdue one day after the due date. Unless the item is recalled, no fees will accrue until 44 full days after the due date. After that date a bill listing a $90.00 item replacement fee will be sent.
For more information regarding Suspensions and Fines, including information on Course Reserves, please visit: http://library.csus.edu (http://library.csus.edu/content2.asp%3FpageID=727.html)

To avoid overdue fees check your account at one of the following web locations:
My Library Account: http://library.csus.edu (http://library.csus.edu/content2.asp%3FpageID=727.html)

My Sac State, Library tab: http://my.csus.edu

Overdue Reminder, Bills, and Overdue Fee Notices

All notices are emailed to your Sac State email address. Notices include: loan receipts, borrowing activity summaries, courtesy, due date change, lost item replacement, and hold shelf notices.

Appendix H: Schedule of Tuition and Fees - 2020/21

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

The following reflects applicable systemwide tuition and fees for both semester and quarter campuses that were authorized by the Board of Trustees at the March 2017 meeting. These rates are subject to change.

All Students

Application fee (nonrefundable), payable online at the time of application via credit card, e-check or PayPal: $55

2018-2019 Basic Tuition

Units	Per Semester	Per Quarter	Per Academic Year
Undergraduate Tuition			
6.1 or more	$2,871	$1,914	$5,742
0 to 6.0	$1,665	$1,110	$3,330

Credential Program Tuition			
6.1 or more	$3,330	$2,220	$6,660
0 to 6.0	$1,932	$1,288	$3,864
Graduate/Post Baccalaureate Tuition			
6.1 or more	$3,588	$2,392	$7,176
0 to 6.0	$2,082	$1,388	$4,164

2019/20 Doctorate Tuition [1]

Units	Per Semester	Per Quarter	Per Academic Year
Audiology - All Students	$7,371		$14,742
Education - All Students	$5,919	$3,946	$11,838
Nursing Practice - All Students	$7,635		$15,270
Physical Therapy - All Students	$8,598		$17,196

[1] Applicable term tuition applies for campuses with special terms, as determined by the campus. Total college year tuition cannot exceed the academic year plus summer term tuition. The summer term tuition for the education doctorate at quarter campuses is equal to the per semester tuition listed in the table. Total tuition for the education doctorate over the college year equals the per academic year tuition plus the per semester tuition for the summer term at all CSU campuses.

2019/20 Graduate Business Professional Fee

Charge per Unit: Per Semester = $270, Per Quarter = $180

The Graduate Business Professional Fee is paid on a per unit basis, in addition to basic tuition and campus fees, for the following graduate business programs:

- Master of Business Administration (M.B.A.)
- Master of Science (M.S.) programs in Accountancy
- Master of Science (M.S.) programs in Business Administration
- Master of Science (M.S.) programs in Health Care Management
- Master of Science (M.S.) programs in Business and Technology
- Master of Science (M.S.) programs in Information Systems
- Master of Science (M.S.) programs in Taxation

Nonresident Students (U.S. and Foreign)

Nonresident Tuition (in addition to basic tuition and other systemwide fees charged all students) for all campuses:

Charge Per Unit: Per Semester = $396, Per Quarter = $264.

The total nonresident tuition paid per term will be determined by the number of units taken.

Mandatory systemwide tuition is waived for those individuals who qualify for such exemption under the provisions of the California Education Code (see section on fee waivers).

Students are charged campus fees in addition to tuition and systemwide fees. Information on campus fees can be found by contacting the individual campus(es).

Credit Cards

Visa and MasterCard credit cards may be used for payment of student tuition and fees but may be subject to a non-refundable credit card processing fee.

Schedule of Tuition and Fees, 2020/21

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

The following reflects applicable systemwide tuition for both semester and quarter campuses. ***These rates are subject to change***.

All Students

Application fee (nonrefundable), payable online at the time of application via credit card, e-check or PayPal: $55

2020/21 Basic Tuition

Units	Per Semester	Per Quarter	Per Academic Year
Undergraduate Tuition			
6.1 or more	$2,871	$1,914	
0 to 6.0	$1,665	$1,110	
Credential Program Tuition			
6.1 or more	$3,330	$2,220	
0 to 6.0	$1,932	$1,288	
Graduate/Post Baccalaureate Tuition			
6.1 or more	$3,588	$2,392	
0 to 6.0	$2,082	$1,388	

2020/21 Doctorate Tuition [1]

Units	Per Semester	Per Quarter	Per Academic Year
Audiology - All Students	$7,371		$14,742
Education - All Students	$5,919	$3,946	$11,838
Nursing Practice - All Students	$7,635		$15,270
Physical Therapy - All Students	$8,598		$17,196

[1] Applicable term tuition applies for campuses with special terms, as determined by the campus. Total college year tuition cannot exceed the academic year plus summer term tuition. The summer term tuition for the education doctorate at quarter campuses is equal to the per semester tuition listed in the table. Total tuition for the education doctorate over the college year equals the per academic year tuition plus the per semester tuition for the summer term at all CSU campuses.

2020/21 Graduate Business Professional Fee
Charge per Unit: Semester = $270, Quarter = $180.

The Graduate Business Professional Fee is paid on a per unit basis in addition to basic tuition fees and campus fees for the following graduate business programs:

- Master of Business Administration (M.B.A.)
- Master of Science (M.S.) programs in Accountancy
- Master of Science (M.S.) programs in Business Administration
- Master of Science (M.S.) programs in Health Care Management
- Master of Science (M.S.) programs in Business and Technology
- Master of Science (M.S.) programs in Information Systems
- Master of Science (M.S.) programs in Taxation

Nonresident Students (U.S. and Foreign)

Nonresident Tuition (in addition to basic tuition and systemwide fees charged all students) for all campuses:

Charge Per Unit: Semester = $396, Quarter = $264.

The total nonresident tuition paid per term will be determined by the number of units taken.

Mandatory systemwide tuition is waived for those individuals who qualify for such exemption under the provisions of the California Education Code (see section on fee waivers).

Students are charged campus fees in addition to tuition and systemwide fees. Information on campus fees can be found by contacting the individual campus(es).

Credit Cards

Visa and MasterCard credit cards may be used for payment of student tuition and fees but may be subject to a non-refundable credit card processing fee.

Appendix I: Availability of Institutional and Financial Assistance Information

The following information concerning student financial assistance may be obtained from the Financial Aid Office, Lassen Hall 1006, (916) 278-6554:

1. A description of the federal, state, institutional, local, and private student financial assistance programs available to students who enroll at Sacramento State;
2. For each aid program, a description of procedures and forms by which students apply for assistance, student eligibility requirements, criteria for selecting recipients from the group of eligible applicants, and criteria for determining the amount of a student's award;
3. A description of the rights and responsibilities of students receiving financial assistance, including federal Title IV student assistance programs, and criteria for continued student eligibility under each program;
4. The satisfactory academic progress standards that students must maintain for the purpose of receiving financial assistance and criteria by which a student who has failed to maintain satisfactory progress may reestablish eligibility for financial assistance;
5. The method by which financial assistance disbursements will be made to students and the frequency of those disbursements;
6. The way the school provides for Pell-eligible students to obtain or purchase required books and supplies by the seventh day of a payment period and how the student may opt out;
7. The terms of any loan received as part of the student's financial aid package, a sample loan repayment schedule, and the necessity for repaying loans;
8. The general conditions and terms applicable to any employment provided as part of the student's financial aid package;
9. The terms and conditions of the loans students receive under the Direct Loan and Perkins Loan Programs;
10. The exit counseling information the school provides and collects for student borrowers; and
11. Contact information for campus offices available for disputes concerning federal, institutional and private loans.
12. Information concerning the cost of attending Sacramento State is available from the following and includes tuition and fees; the estimated costs of books and supplies; estimates of typical student room, board, and transportation costs; and, if requested, additional costs for specific programs.

Information concerning the refund policies of Sacramento State for the return of unearned tuition and fees or other refundable portions of institutional charges is available from:

Anita Kermes, Director of Financial Aid Office
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-6074.

Information concerning policies regarding the return of federal Title IV student assistance funds as required by regulation is available from:

Anita Kermes, Director of Financial Aid Office
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-6074.

Information regarding special facilities and services available to students with disabilities may be obtained from:

Mary Lee Vance, Director, Office of Services to Students with Disabilities
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-6955.

Information concerning Sacramento State policies, procedures, and facilities for students and others to report criminal actions or other emergencies occurring on campus may be obtained from:

Mark Iwasa, Chief of Police

California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-6000.

Information concerning Sacramento State annual campus security report and annual fire safety report may be obtained from:

Mark Iwasa, Chief of Police
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-6000.

Information concerning the prevention of drug and alcohol abuse and rehabilitation programs may be obtained from:

Reva Wittenberg, Associate Director of Campus Wellness
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-82036.

Information regarding student retention and graduation rates at Sacramento State and, if available, the number and percentage of students completing the program in which the student is enrolled or has expressed interest may be obtained from:

Yvonne Harris, Associate Vice President, Research Affairs,
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-6402.

Information concerning athletic opportunities available to male and female students and the financial resources and personnel that Sacramento State dedicates to its men's and women's teams may be obtained from:

Mark Orr, Director of Athletics
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-6348.

Information concerning teacher preparation programs at Sacramento State, including the pass rate on teacher certification examinations, may be obtained from:

Elizabeth Christian, Credentials Analysts Office
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
Eureka Hall 414
(916) 278-4567.

Information concerning grievance procedures for students who feel aggrieved in their relationships with the University, its policies, practices, and procedures, or its faculty and staff may be obtained from:

Dr. Ed Mills, Vice President, Student Affairs
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-6060.

Information concerning student body diversity at Sacramento State, including the percentage of enrolled, full-time students who are (1) male, (2) female, (3) Pell Grant recipients, and (4) self-identified members of a specific racial or ethnic group, must be obtained from:

Yvonne Harris, Associate Vice President, Research Affairs
California State University, Sacramento
6000 J Street
Sacramento, CA 95819-6032
(916) 278-6402.

Information concerning student activities at California State University, Sacramento is available at http://www.csus.edu/soal/

The federal Military Selective Service Act (the "Act") requires most males residing in the United States to present themselves for registration with the Selective Service System within 30 days of their 18th birthday. Most males between the ages of 18 and 25 must be registered. Males born after December 31, 1959, may be required to submit a statement of compliance with the Act and regulations in order to receive any grant, loan, or work assistance under specified provisions of existing federal law. In California, students subject to the Act who fail to register are also ineligible to receive any need-based student grants funded by the state or a public postsecondary institution.

Selective Service registration forms are available at any U.S. Post Office, and many high schools have a staff member or teacher appointed as a Selective Service Registrar. Applicants for financial aid can also request that information provided on the Free Application for Federal Student Aid (FAFSA) be used to register them with the Selective Service. Information on the Selective Service System is available and the registration process may be initiated online at www.sss.gov (http://www.sss.gov).

Appendix J: Personal Safety and Protection of Property

Personal Safety and Protection of Public Property
Police Department Building
Police Emergency: (916) 278-6000 or dial 911 from any campus phone
www.csus.edu/police (http://www.csus.edu/police/)
www.facebook.com/sacstatepolice (https://www.facebook.com/sacstatepolice/)
www.twitter.com/sacstatepolice (https://twitter.com/sacstatepolice/)

The University and the Sacramento State Police Department (formerly known as the Department of Public Safety) encourage the prompt reporting of any incident that compromises the safety, health, or rights of Sacramento State community members. The Sacramento State Police Department is the primary respondent for campus emergencies and reports of criminal activity on campus. Officers are fully certified by the State of California with full arrest powers and cooperate with State and local police agencies (Sacramento City Police and Sacramento County Sheriff's Departments), resulting in the University's awareness of criminal activity perpetrated beyond the campus. Reports of criminal activity will be fully investigated, and appropriate referrals made to the courts, the University, or both.

Campus Buildings: Buildings on the Sacramento State campus remain open only through the completion of the last scheduled event. A daily schedule is provided to Facilities Management and buildings are electronically locked on the basis of that schedule. For those buildings that are not electronically controlled, Custodial Services and Community

Service Specialists are responsible for the unlocking of buildings on a daily basis for scheduled classes. After buildings are locked, only employees with offices and personnel with maintenance responsibilities have access to buildings.

Personal Safety Training: The Sacramento State Police Department has full-time Police Officers who are available, on request, for personal safety presentations to increase awareness and personal responsibility of students, faculty, or staff. Please call (916) 278-6000 for an appointment. Presentations are offered consistently during the semester. Police Department personnel are available for seminars concerning personal safety for women through the Violence and Sexual Assault Support Services (916) 278-3799. In addition, students are employed through the Sacramento State Police Department as Community Service Officers (CSOs) with primary responsibility for providing patrols and community assistance on campus. The CSOs provide directed patrols in the Residential Life Complex, Academic Information Resource Center, and the Library.

Residence Halls: Sacramento State Residence Hall policy requires that exterior doors be locked at all times. All residents are issued a fob for personal access to the exterior doors and rest rooms. A resident must accompany all guests. Additional information is contained in the Guide to Residential Life available through the Office of Residential Life in Sierra Hall.

Publications: Brochures are available through the Sacramento State Police Department which provides additional information and training under the following titles: A Guide to Safe & Responsible Partying, Alcohol Alert, Alcohol - The Hard Facts, Apartment Safety Checklist, Bicycles on Campus, Bicycle Safety Tips, CA Driver License & Identification Cards, CA Victim Compensation Program (CalVCP), Compensation for Victims of Violent Crime, Crime Prevention Information, Crime Victims Services, Dater's Bill of Rights, Depression and College Students, Domestic Violence, Do You Know How To Be Safe, Help for Victims of Domestic Violence, Parents You're Not Done Yet, Personal Safety Guide, Police Department Brochure, Preventing Arson & Vandalism, Preventing Date Rape, Preventing Vehicle Theft, Safety Tips for Runners and Walkers, Sexual Assault Act Sheet, Sexual Assault Prevention, Sexual Harassment Facts, Streetwise - The Way to Be, Sustaining Your Gang Prevention Efforts, Tobacco Laws, and Victim Witness Assistance Program. The Sacramento State Violence and Sexual Assault Support Services Program has a brochure on Personal Safety. An Emergency Response Manual is available to the campus community through the Sacramento State Police Department, or online at www.csus.edu/police (http://www.csus.edu/police/), with information concerning procedures for fire, earthquake, serious injury, bomb threat, hazardous material leaks, and crimes in progress.

In compliance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act and the Campus Fire Safety Right-To-Know Act, Sacramento State has made statistics and information available online at www.csus.edu/clery (https://www.csus.edu/campus-safety/_internal/_documents/clery/clery_report.pdf). The Sacramento State Police Department collects crime statistics from local and appropriate police agencies, gathers information from multiple sources both on and off campus and prepares the report. Crimes reported on campus, in certain off-campus buildings or property owned or controlled by Sacramento State and on public property within or immediately adjacent to and accessible from the campus during the last three years is included. The report includes fire safety statistics and information, institutional policies concerning campus security, alcohol and drug use, crime prevention, the reporting of crimes, sexual assault and other safety matters. During the fall semester of every year, information is emailed to all enrolled students, faculty and staff. In addition, all CSU employees receive a notice concerning this information on their August paycheck. Print copies are available in the Police Service Center located in the University Union and by request from the Sacramento State Police Department.

Appendix K: Civil and Criminal Penalties for Violation of Federal Copyright Laws

Anyone who is found to be liable for copyright infringement may be liable for either the owner's actual damages along with any profits of the infringer or statutory damages of up to $30,000 per work infringed. In the case of a willful infringement, a court may award up to $150,000 per work infringed. (See 17 U.S.C. §504.) Courts also have discretion to award costs and attorneys' fees to the prevailing party. (See 17 U.S.C. §505.) Willful copyright infringement can also result in criminal penalties, including imprisonment and fines. (See 17 U.S.C. §506 and 18 U.S.C. §2319.)

Appendix L: Career Placement

The Office of Research Affairs or the Office of University Initiatives and Student Success may furnish, upon request, information about the employment of students who graduate from programs or courses of study preparing students for a particular career field. Any such data provided must be in a form that does not allow for the identification of any individual student. This information includes data concerning the average starting salary and the percentage of previously enrolled students who obtained employment. The information may include data collected from either graduates of the campus or graduates of all campuses in the California State University.

Appendix M: Changes of Rules and Policies

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

COURSES A-Z

Accountancy (ACCY)

ACCY 1. Accounting Fundamentals. 3 Units
Prerequisite(s): Entry Level Math (ELM) test of at least 36 or a CR grade in LS 7A.
Term Typically Offered: Fall, Spring

Accounting as the basis of an information system with emphasis on concepts and assumptions underlying data accumulation for financial reports. Includes the concepts of income determination and financial position, and the accounting for various types of ownership equities.

ACCY 2. Managerial Accounting. 3 Units
Prerequisite(s): ACCY 1.
Term Typically Offered: Fall, Spring

Use and reporting of accounting data for managerial planning, control, and decision making. Broad coverage of concepts, classification, and behavior of costs.

ACCY 111. Intermediate Accounting I. 3 Units
Term Typically Offered: Fall, Spring

In-depth knowledge of how financial information provides information about a company's: economic resources, obligations, and owner's equity; income and its components; and cash flows. Topics include the development and application of basic assumptions, principles and constraints underlying financial statements; the use of information derived from financial statements and the limitations of the information; and the use of accounting information to evaluate a company's return on investment, risk, financial, flexibility, liquidity, and operational capability. Students learn how to prepare financial statements.

ACCY 112. Intermediate Accounting II. 3 Units
Prerequisite(s): ACCY 111.
Term Typically Offered: Fall, Spring

Application of Generally Accepted Accounting Principles to the reporting of tangible and intangible assets, liabilities, and the capital section of the balance sheet. Other topics include the reporting of stock-based compensation and earnings-per-share.

ACCY 113. Intermediate Accounting III. 3 Units
Prerequisite(s): ACCY 111.
Term Typically Offered: Fall, Spring

Application of Generally Accepted Accounting Principles to revenue recognition and matching, pensions, leases, income taxes, accounting changes, interim financial statements, and segmental reporting. Students develop an in-depth knowledge of the preparation and the analysis of the cash flow statement.

ACCY 117. Advanced Accounting. 3 Units
Prerequisite(s): ACCY 111 and ACCY 112.
Term Typically Offered: Fall, Spring

Specialized topics in partnership accounting; consolidated statements; foreign currency translation and financial statements.

ACCY 121. Cost Accounting. 3 Units
Term Typically Offered: Fall, Spring

Importance of the allocation of costs; the cost allocation techniques available to accountants; the techniques used by management to maintain and create enterprise value, e.g., CVP analysis; the accountant's responsibility for the management of inventory; and the ethical consideration in internal reporting.

ACCY 122. Advanced Management Accounting. 3 Units
Prerequisite(s): ACCY 121.
Term Typically Offered: Fall, Spring

Accountant's responsibility to provide financial and no financial information to managers; the planning techniques available to accountants; managerial control techniques that enhance the maintenance and improvement of enterprise value, and short-run and long-run analyses.

ACCY 131. Survey of Auditing, Attest, and Assurance Topics. 3 Units
Prerequisite(s): ACCY 111, ACCY 112.
Term Typically Offered: Fall, Spring

Survey of topics in auditing as a control activity in society. Covers a variety of opportunities in the auditing profession including external auditing, internal auditing, compliance auditing, and operational auditing as well as fraud examinations. Topics include evidence and documentation, professional ethics, auditing computer systems, statistical sampling, and internal controls.

ACCY 132. Accountants' Ethical and Professional Responsibilities. 3 Units
Prerequisite(s): ACCY 111, ACCY 112.
Corequisite(s): ACCY 131.
Term Typically Offered: Fall, Spring

This course addresses professional responsibilities for the accounting profession, including the development of ethical standards, ethical reasoning, AICPA and California Codes of Professional Conduct, financial reporting fraud, corporate goverance, and other relevant topics.

ACCY 161. Government and Nonprofit Accounting. 3 Units
Prerequisite(s): ACCY 111
Term Typically Offered: Fall, Spring

Fundamentals of accounting and financial reporting for governmental units and institutions; accounting for various types of funds; accounting aspects of budgetary control.

ACCY 171. Federal Tax Procedures I. 3 Units
Term Typically Offered: Fall, Spring

Federal taxation concepts are used in effective decision making; a working knowledge of the concepts of gross income, deductions, tax rates, and property transactions as they pertain to C corporations, partnerships, S corporations, and individuals; and proficiency in the application of tax concepts as they pertain to business and individual taxpayers.

ACCY 172. Federal Tax Procedures II. 3 Units
Prerequisite(s): ACCY 171.
Term Typically Offered: Fall, Spring

Business entity formation, operation, and termination and business taxation principles and concepts used in effective decision-making. Students develop the ability to understand and apply business tax principles and the critical and analytical skills that are necessary in the study and application of taxation and tax law.

ACCY 190. International Accounting. 3 Units
Prerequisite(s): ACCY 111, Business Major
Term Typically Offered: Fall, Spring

Accounting concepts, principles, and methods applicable to multinational transactions and global corporations. Contents include the translation of financial statements, comparative accounting systems, financial reporting, currency risk management, international accounting standards and organizations, taxation problems, and the managerial aspects of multinational transactions.

ACCY 194. Cooperative Education Experience in Accountancy. 6 - 12 Units
Prerequisite(s): Minimum overall GPA of 2.75; instructor permission.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in accounting for the purpose of exposing the student to comprehensive accountancy experience in business, governmental, or service agencies.
Note: Open to upper division students, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

ACCY 195. Internship in Accountancy. 3 Units
Prerequisite(s): Completion of 15 units of upper division business courses at Sacramento State; minimum overall GPA of 2.75; instructor permission.
Term Typically Offered: Fall, Spring

Supervised work experience in accountancy for the purpose of increasing student understanding of the nature and scope of the operations of business, governmental, or service agencies. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to declared business administration upper division majors only, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

ACCY 196B. Exper Offer Accountancy. 3 Units
Prerequisite(s): AIS 141
Corequisite(s): ACCY 131
Term Typically Offered: Fall, Spring

A course in Accounting and Audit Analytics examines the changing technological environment in accounting and the role of data analytics in accounting. This course will help students to understand different structured and unstructured accounting data, and develop new analytic skills to make better accounting decisions. It will also improve student's ability to conduct audit analytical procedures, in accordance with financial reporting regulatory requirements.

ACCY 199. Special Problems in Accountancy. 1 - 3 Units
Prerequisite(s): Senior status or instructor permission.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.
Note: Open to declared business administration majors only.

Credit/No Credit

ACCY 220. Accountancy Teaching Experience. 3 - 6 Units
Term Typically Offered: Fall, Spring

Supervised experience of teaching lower division accountancy courses. Students will teach one section of ACCY 1 or 2 for each three units of credit. They may teach no more than two classes (6 units of credit) during any semester and be under direct supervision of an appropriate coordinator. To be eligible, students must register for nine units in addition to ACCY 220 and must have approval of the Department Chair. May not be used to satisfy any requirements in the CBA graduate programs. No student may earn more than twelve (12) units cumulative.
Credit/No Credit

ACCY 240. Integrated Accounting Concepts. 3 Units
Term Typically Offered: Fall, Spring

Designed for students who enter the Master of Science Accountancy program without a Bachelor of Science in Accountancy or students who need to refresh their basic skills and understanding in record keeping, financial statement preparation and analysis, ethics in the practice of accounting, and internal controls through the use of comprehensive case study/practice set. Delivered via independent project work rather than lecture.

ACCY 250. Financial Reporting I. 3 Units
Term Typically Offered: Fall, Spring

Corporate financial reporting to external users in accordance with US Generally Accepted Accounting Principles (GAAP), including financial information about a company's economic resources, obligations, owners' equity, income, case flow, and use of information to evaluate a company's return on investment, risk, financial flexibility, liquidity, and operational capability.

ACCY 251. Foundations of International Accounting. 3 Units
Prerequisite(s): ACCY 250 or equivalent.
Term Typically Offered: Fall, Spring

The role of culture in accounting; comparative international financial and managerial accounting fundamentals; international financial statement analysis; international accounting standards and U.S. GAAP convergence; international business combinations; foreign exchange; international auditing; international taxation; and international capital flows.

ACCY 260. Financial Reporting II. 3 Units
Prerequisite(s): ACCY 250.
Term Typically Offered: Fall, Spring

In-depth study of technical financial accounting issues including accounting for pensions and leases, income tax, accounting changes, consolidated financial statements, and foreign currency.

ACCY 261. Cost Analysis and Control. 3 Units
Term Typically Offered: Fall, Spring

Fundamentals of cost accounting concepts and practice relating to cost accumulation, control, and analysis for managerial planning and decision making. Specific topics generally include product costing, standards, cost allocation, estimation, budgeting, transfer pricing, and performance evaluation. Emphasis is on current issues.

ACCY 262. Auditing. 3 Units
Term Typically Offered: Fall, Spring

Study auditing as a control activity in society. It covers a variety of opportunities in the auditing profession including external auditing, internal auditing, compliance auditing, and operational auditing as well as fraud examinations. Topics include evidence and documentation, auditing computer systems, and internal controls.

ACCY 263. Governmental and Non-Profit Accounting. 3 Units
Term Typically Offered: Fall, Spring

This course provides an in depth study of accounting and reporting for state and local governmental and non-profit entities. The course emphasizes the governmental reporting environment, the accounting for various types of funds, the accounting aspects of budgetary control, and the preparation of governmental financial information to be included in the Comprehensive Annual Financial Report. This course also emphasizes the key differences between governmental and non-profit organizations, and the financial accounting and reporting for non-profit organizations.

ACCY 264. Taxation of Business Entities. 3 Units
Term Typically Offered: Fall, Spring

Covers the topics for corporate tax, partnership tax, estate and gift tax, and tax planning. Corporate tax includes taxation of transactions between corporations and thier shareholders, transfers to corporations, dividends and non-liquidating distributions, stock redemptions, corporate liquidations, and S corporation. Partnership tax includes operation and liquidation, dissolution, sales, and exchange of partnership interests. Estate and gift tax addresses the types of transfers for federal gift tax.

ACCY 265. Advanced Accounting Information Systems Analysis and Controls. 3 Units
Term Typically Offered: Fall, Spring

Emphasis on the role of computer and information technology in the development, analysis, and operation of accounting information systems; may include advanced coverage of accounting transaction cycles, accounting systems planning and analysis, accounting system design, accounting systems implementation and operation, the accounting system internal control structure, data modeling and database design in accounting, computer fraud and security, and auditing of computer-based information systems.

ACCY 266. Business Environment and Concepts. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide understanding of knowledge and skills necessary for the general business environment and business operation. In addition, students are required to apply that knowledge in performing professional responsibilities. Topics include corporate governance, business cycles, global economic markets, business strategy, effect of financial management policies on accounting transactions, economic substance of transactions and their accounting implications, and budgeting/forecasting techniques.

ACCY 269. Taxation of Individuals. 3 Units
Term Typically Offered: Fall, Spring

Covers the required topics for tax form preparation for reporting individual incomes. Examines fundamental concepts in tax law and the underlying reasons for income identification, exemption, and deduction.

ACCY 270. Tax Research and Procedure. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring

Tax reporting and collection procedure; administrative and judicial procedures governing tax controversies; the rights and obligations of the taxpayer. Intensive training in performing and communicating tax research. Includes use of current database programs. Lecture basis, followed by 'hands-on' application of research methods.

ACCY 271. Tax Accounting Periods and Methods. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring

Concepts and principles of the overall cash, accrual and hybrid methods of tax accounting. Applications of specific methods such as: inventory costing and capitalization rules, installment sales, long-term contracts, and original issue discount/time value of money will be examined. Lecture format to present the underlying rules and concepts. Case studies will then be analyzed and discussed by the students to examine the topics in a 'real-world' context.

ACCY 272. Taxation of Business Enterprises I - Corporations. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring

Discusses federal tax law as it applies to corporations, including the following topics: special deductions, formation, distributions, and complete liquidations. Incorporates problem sets, case analysis, a corporate tax return project, and a research project to enhance analytical and critical thinking skills and compliance experience.

ACCY 273. Taxation of Business Enterprises II - Partnerships. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring

Discusses general concepts, acquisitions and basis of partnerships interests, operations, transfers of partnership interests, and distributions. Incorporates problem sets, a partnership tax return project, and research projects to enhance analytical and critical thinking skills and compliance experience and to develop students' technical proficiency in the application of partnership concepts.

ACCY 274. Estate, Gift and Trust Taxation. 3 Units
Prerequisite(s): ACCY 172 or ACCY 269.
Term Typically Offered: Fall, Spring

Taxation of decedent's estate and lifetime gifts; valuation of property subject to estate and gift taxes; income taxation of estates and trusts; estate planning. Uses a lecture format to present the underlying rules and concepts. Case studies will then be analyzed and discussed by the students to examine the topics in a 'real-world' context.

ACCY 275. International Wealth and Asset Management. 3 Units
Term Typically Offered: Fall, Spring

Importance of global asset protection and wealth management; domestic Statutory and case law authorities of selected European, American and Asian countries as they relate to wealth protection and asset management; bi-lateral international agreements relating to wealth management and asset protection; Multilateral agreement affecting wealth management and asset protection; tax and legal liability minimizing models.

ACCY 276. U.S.Taxation of International Transactions. 3 Units
Prerequisite(s): ACCY 272, Advanced to Candidacy.
Term Typically Offered: Fall, Spring

U.S. tax jurisdiction; U.S. source of income rules and related expense allocation; U.S. taxation of foreign taxpayers; transfer pricing issues; U.S. taxation of the foreign income of U.S. citizens and residents; cross border transactions; foreign currency tax issues; and U.S. bilateral tax agreements. Successful completion will satisfy the culminating experience for the MSBA/Taxation program. Students may select topics for their Master's projects that are outside the discipline topic of the class subject to the approval of the instructor.

ACCY 277. Comparative International Tax Systems. 3 Units
Term Typically Offered: Fall, Spring

The similarities and differences between current global tax systems including jurisdiction and conflict of laws issues; the role of bilateral international tax treaties and other international tax related agreements in business operations; international tax planning for individuals and multinational enterprise including corporations, partnerships and estates and trusts.

ACCY 278. International and Multi-State Taxation. 3 Units
Term Typically Offered: Fall, Spring

Focuses on the taxation of cross-border transactions which encompasses discussion of the laws, rules, and regulations that affect transactions that cross both state and national borders. It covers various issues such as income sourcing and jurisdiction to tax. This course generally discusses these issues from the perspective of a U.S. person, but emphasizes and illustrates the general applicability of these rules for the tax regimes as established by other countries and states.

ACCY 280. Management Control Systems. 3 Units
Term Typically Offered: Fall, Spring

Development of the concepts and practice of management control systems. How alternative accounting-based planning, performance motivation and evaluation, and control systems fit and are used in varying strategic, management, and operative environments. How systems focus and motivate managers' decision behavior. How systems fit and are used in varying decision, competitive, and organization settings. Emphasis is on cases.

ACCY 295. Internship in Accountancy. 3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's accounting operations. Supervision is provided by the faculty and the cooperating agencies. Open to MS in Accountancy students. Petitions are obtained from Tahoe Hall 1035.
Credit/No Credit

ACCY 296. Experimental Offerings in Accountancy. 3 Units
Term Typically Offered: Fall, Spring

When a sufficient number of qualified students apply, a faculty member may conduct a seminar on a designated advanced topic in accountancy.

ACCY 299. Special Problems in Accountancy. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of faculty member under whom the individual work is to be conducted in addition to the approval from the Department Chair of Accountancy. Petitions to be obtained from the CBA Graduate Programs Office, Tahoe Hall 1037.
Credit/No Credit

ACCY 500A. Thesis. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; completion of MGMT 210 is required for the MBA only.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree.

ACCY 500B. Project. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; completion of MGMT 210 is required for the MBA only.
Term Typically Offered: Fall, Spring

Completion of a project approved for the Master's degree.

ACCY 500C. Comprehensive Examination for MS/Accountancy and MSBA/Taxation Degrees. 1 - 3 Units
Prerequisite(s): Advanced to candidacy. For comprehensive examination for MBA only (MGMT 500C, 1 unit), completion of Program Requirements (ACCY 240, MGMT 222, MGMT 223, MGMT 234, MGMT 280, MIS 221, OBE 252). For comprehensive examination for MS/Accountancy and MSBA/Taxation degrees, student must be in final semester of program.
Term Typically Offered: Fall, Spring

Note: MS Accountancy degree, student must be in final semester of program.

ACCY 501. Culminating Experience Project in Accounting and Ethics. 3 Units
Prerequisite(s): Advancement to Candidacy
Term Typically Offered: Fall, Spring

Each student conducts an individual project to fulfill the culminating experience graduation requirement of the MS in Accountancy program as required in Title V of the CA Educational Code. The course also covers the development of ethical standards, ethical reasoning, AICPA Code of Professional Conduct, accountants' professional responsibilities, financial reporting fraud and responses, corporate governance, and other relevant topics.
Note: May be repeated for credit

Accountancy Information System (AIS)

AIS 141. Accounting Information Systems Development. 3 Units
Term Typically Offered: Fall, Spring

Design, analysis, and implementation of computer-based accounting information systems. Discussion of flow charting, data security, systems development, program architecture, and management of the implementation process. Development of computer applications and formulation of decision information for managerial uses. Use of the computer in projects.

AIS 142. Enterprise and E-Commerce Accounting Models. 3 Units
Prerequisite(s): AIS 141 or instructor permission.
Term Typically Offered: Fall, Spring

Survey of Enterprise Resource Planning (ERP) models, Business-to-Business (B2B) E-commerce models, and the effects of the changing business and technology landscape upon the accounting profession. Topics include internal control, auditing, and economics relating to these new business-process models.

AIS 194. Cooperative Education Experience in Accounting Information Systems Problems. 6 - 12 Units
Prerequisite(s): Minimum overall GPA of 2.75; instructor permission.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in accounting information systems for the purpose of exposing the student to comprehensive Accounting Information Systems experience in business, governmental, or service agencies.
Note: Open to upper division students, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

AIS 195. Internship in Accounting Information Systems. 3 - 6 Units
Prerequisite(s): Completion of 15 units of upper division business courses at Sacramento State; minimum GPA of 2.75 required; instructor permission.
Term Typically Offered: Fall, Spring

Supervised work experience in accounting information systems for the purpose of increasing student understanding of the nature and scope of the operations of business, governmental, or service agencies. Supervision is provided by the faculty and cooperating agencies.
Note: Open to declared business administration upper division majors only, subject to permission of the Accountancy Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

AIS 199. Special Problems in Accounting Information Systems. 1 - 3 Units
Prerequisite(s): Senior status or instructor permission.
Term Typically Offered: Fall, Spring

Individual accounting information systems projects or directed reading for students qualified to carry on independent work.
Note: Open to declared business administration majors only. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

Anthropology (ANTH)

ANTH 1. Introduction to Biological Anthropology. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring, Summer

Covers the concepts, methods of inquiry, and theory of biological evolution and their application to the human species. There is a specific focus on molecular, Mendelian and population genetics, mechanisms of evolution, primatology, paleoanthropology, biocultural adaptations, and human variation. The scientific method serves as the foundation to the course.

ANTH 1A. Biological Anthropology Laboratory. 1 Unit
Prerequisite(s): ANTH 1 (may be taken concurrently)
General Education Area/Graduation Requirement: Laboratory (B3), Life Forms (B2)
Term Typically Offered: Fall, Spring

Designed to familiarize the student with the materials and techniques of physical anthropology. Includes human and other primate osteology, anthropometric techniques, and allied methods in the gathering and analysis of physical anthropological data. Through working with the departmental collection of fossil casts and a wide variety of charts and models, the student also becomes familiar with the stages of human and primate evolution.

ANTH 2. Introduction to Cultural Anthropology. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to anthropological approaches in the study of people and cultures. Using ethnographic case studies, the course contributes to a critical understanding of continuity and diversity in peoples' lifestyles, social institutions, and cultural practices in different societies around the world. The course also examines the impact of political, economic, and social changes, such as colonization, decolonization, and globalization on people and cultures over the last century.

ANTH 2H. Introduction to Cultural Anthropology - Honors. 3 Units
Term Typically Offered: Fall only

Introduction to anthropological approaches in the study of people and cultures. Using ethnographic case studies, contributes to a critical understanding of the continuity and diversity in peoples' lifestyles, social institutions, and cultural practices in different societies around the world. Examines the impact of political, economic, and social changes, such as colonization, decolonization, globalization, etc., on people and cultures over the last century. Intended for students enrolled in the University's GE Honors Program.
Note: Students must be admitted to the GE Honors Program.

ANTH 3. Introduction to Archaeology. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduces students to the methods and theories used by archaeologists to find, recover, and interpret such remains in an effort to reconstruct and understand the lives of earlier peoples. The class uses archaeological case studies, films, and hands-on examples of tools and other artifacts produced by simple stone age hunters and more complex civilizations that lived in California and other parts of the world.

ANTH 4. Language, Culture, and Critical Thinking. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Introduction to the abstract and formal structures of language and cultural dimensions of human communication via major linguistic anthropological concepts, theoretical assumptions, and methodologies. Addresses the logical, formal relationship between underlying rules of natural languages while critically analyzing how speakers from different cultures use language to convey complex social and cultural information. Course illuminates how language is used to create and reinforce relationships of power (race, class, gender); develops ability to recognize linguistic fallacies; and instructs in basic critical thinking skills.

ANTH 13. Magic, Witchcraft and Religion. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Cross-cultural study of the forms and functions of supernatural beliefs and associated rituals in various societies of Africa, Asia, aboriginal Australia, Oceania, South America, native North America and elsewhere. Emphasis is on understanding beliefs and rituals within given social contexts, and using broad comparisons to derive insight into the general functions of beliefs and rituals in human life.

ANTH 16. Comparative Early Civilizations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examines the emergence and development of early civilizations. Studies state formation, urbanization, market system development, and other processes relevant to the evolution of early civilizations from the standpoints of cross-cultural comparison and modern anthropological theory. The goal is to identify cross-cultural regularities as well as critical differences that can explain the various evolutionary trajectories of these societies. The civilizations that will be contrasted include societies from Mesopotamia, Egypt, the Indus Valley, China, Mesoamerica, Andean South America, and other regions.

ANTH 21. Freshman Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Provides students with the opportunity to interact with fellow classmates and the seminar leader to build a community of academic support and personal support.

ANTH 101. Cultural Diversity. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer

Focuses on analyzing the historically conditioned political, economic and social factors that have contributed to cultural diversity in the U.S; a critical anthropological approach is developed to explore the intersection of race, class, gender, ethnicity and sexuality; the political economy of institutions and ideas, such as racism, classism, sexual stereotyping, family, religion, state, color-blindness, multiculturalism, etc.; and, discourses of cultural diversity in the U.S.

ANTH 102. The Nature of Culture. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring

An upper division general introduction to cultural anthropology. Divided into two major parts: a survey of theories, methods and concepts of cultural anthropology, and an introduction to applied cultural anthropology.

ANTH 103. Psychological Anthropology. 3 Units
Prerequisite(s): ANTH 2 or ANTH 102.
Term Typically Offered: Fall, Spring

Cross-cultural comparative approach to human cognition, child-training practices, personality development, deviant behavior, cultural psychiatry, and data gathering techniques.

ANTH 104. The History of Anthropology. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Anthropological theory in historical perspective.

ANTH 105. Anthropology of War. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Examination of the nature of war, primarily as it occurs in pre-industrial societies, and a survey of the kinds of explanations of this phenomenon current in anthropology. Emphasis is on understanding the complexity, variability, and cultural imbeddedness of war as it occurs around the world.

ANTH 106. Culture and Personality of the Chicano Child. 3 Units
Term Typically Offered: Fall, Spring

Study of child growth and development patterns universal to all children with focus on the pressures and effects of the Mexican and Anglo cultures on the development of the Chicano child.

ANTH 107. Anthropology of Hunters and Gatherers. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Survey of the rapidly disappearing life way which anthropologists call hunting and gathering, with economies based on the use of wild plant and animal resources. Using ethnographic examples from the Arctic, southern Africa, rainforests in South America, deserts of Australia, and western North America, explores variation in hunter-gatherer societies with respect to differences in environment, technology, social organization, and the historical effects of interaction with more complex cultural groups. Models that attempt to explain long-term changes in this life way are also explored.

ANTH 108. Economic Anthropology. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Examines the fundamentals of economic anthropology through a focus on production, exchange, and consumption in a range of historical and ethnographic contexts. Introduces different frameworks for theorizing the economy and explaining human behavior and decision-making. Addresses central questions and issues in cultural anthropology on the origins of value, wealth and social stratification, the meanings of work, gift exchange and reciprocity, property regimes, morality and debt, marketing and desire.

ANTH 109. Ecological and Evolutionary Approaches to Anthropology. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Survey of anthropological research regarding the relationships between human behavior, ecology, and evolution. Reviews historic development of research in this field, and contrasts approaches based in ecological and evolutionary theory. Reviews and evaluates of case studies. Topics include hunter-gatherer and hominid economy and social organization, foraging theory, work effort, population growth and regulation, origins of agriculture, warfare, ritual and resource conservation, and origins of complex society.

ANTH 110. Archaeological Method and Theory. 3 Units
Prerequisite(s): ANTH 3.
Term Typically Offered: Fall, Spring

Traces the development of archaeology from its inception in the eighteenth century up to the present time. Readings, lectures, and class assignments follow the evolution of archaeological method and theory in relation to changing ideas about the role of culture, environment, and technology within the broader discipline of anthropology.

ANTH 111. California Archaeology. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Pre-contact California encompassed some of the most extensive environmental and cultural diversity ever to exist on the planet, containing widely divergent biota, many distinct languages and cultures, and among the densest hunter-gatherer populations ever recorded. At least 11,000-12,000 years of human occupation have been marked by multiple migrations and major shifts in technological and social organization. Explores long-term trends in cultural development across the state, and examines models used to explain why semi-permanent settlements, intensive subsistence strategies, and complex social institutions arose in some times/places and not others.

ANTH 112. Great Basin Archaeology. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Explores the cultural and natural history of the Great Basin from the last glacial maximum into the historic era. Though largely arid, this region in fact manifests considerable environmental variability and has seen significant climatic alterations since the Pleistocene. Human occupation of the Great Basin witnessed major changes in demography, technology, subsistence practices, and sociopolitical organization over the last 10-12,000 years. The course looks to understand cultural and environmental variability across the region through examination of the long-term material record and consideration of anthropological and biological models.

ANTH 113. Prehistory of the Southwest. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Survey of the prehistory of the Arizona, New Mexico, Western Colorado, Utah, and adjacent regions of Nevada, Texas and northwestern Mexico. Major prehistoric cultures of the Southwest (Hohokam, Anasazi, Mogollon, Fremont) are covered in detail. Focus on major transitions in subsistence and social organization emphasizing current issues of archaeological research. Cultural influences from outside areas are also considered.

ANTH 114. North American Prehistory. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Familiarizes students with the archaeological record of North America, and provides an analytical framework through which it may be understood in anthropologically meaningful terms. This will be accomplished by considering some of the explanations that have been proposed to account for the prehistory of the continent, and by examining the archaeological remains and cultural sequences found in various areas, including the North and Southeast, Great Plains, Pacific Northwest, and arctic/subarctic regions.

ANTH 115. Origins of Agriculture. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Surveys and evaluates worldwide anthropological perspectives of the origins of agriculture and the rise of complex society. Traces the development of major archaeological theories for the inception and spread of agriculture and civilization, acquainting students with groundbreaking archaeological research associated with each theoretical perspective. Current archaeological research is reviewed in-depth, providing a context for critique of the theories. Examples from North America, Latin America, the Middle East, India and China are compared and contrasted using movies, readings, and lectures.

ANTH 116. Old World Prehistory: Paleolithic Archaeology. 3 Units
Term Typically Offered: Fall, Spring

Old World Paleolithic archaeology from the emergence of hominids until the development of agriculture and civilization. Cultural developments in Africa, Asia, Europe and Australia are examined with the aim of highlighting similarities and differences in the process of technological, demographic, and sociopolitical change within each region. Explanatory models are offered to account for cultural evolution in various parts of the Old World are explored and assessed.

ANTH 117. World Prehistory and the Evolution of Modern Humanity. 3 Units
Prerequisite(s): Any lower-division Area B2 GE course
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Covers human prehistory, from the emergence of culture through the domestication of plants and animals, and the origins of complex societies. Included are major cultural developments on every continent, emphasizing similarities and differences in the nature and timing of key technological, cultural, and sociological changes. Methodologies for learning about the past, major archaeological discoveries, important personalities, and contributions to the modern world are discussed in the context of understanding the strengths of a scientific approach to understanding the human past.

ANTH 118. The Anthropocene: Human Impacts on Ancient Environments. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Designed to challenge students to critically evaluate past human relationships with their environment at the local, regional, and global scale over the past 10,000 years. The diachronic perspective of the course provides students with a broader understanding of contemporary challenges, such as anthropogenic climate change and declining biodiversity, that is rooted in our prehistoric past.

ANTH 119. Analysis of Faunal Remains. 4 Units
Prerequisite(s): ANTH 3 and Anthropology (Archaeological and Biological Anthropology) concentration.
Seminar on techniques and methods employed in analysis of faunal remains from archaeological sites, coupled with a laboratory providing hands-on identification of mammalian remains from these settings. Large focus on quantitative methods used in zooarchaeology to infer behavioral patterns of the human past and their paleoenvironments.

ANTH 120. Introductory Statistics for Anthropologists. 3 Units
Prerequisite(s): Anthropology (Archaeological and Biological Anthropology) concentration.
Term Typically Offered: Fall, Spring

Covers the conceptual framework involved in quantitative methods of data analysis commonly employed in anthropology. The emphasis is primarily on understanding concepts and secondarily on learning techniques of data analysis. Topics include data description and distributions, estimation procedures, hypothesis testing, and model fitting. Illustration of concepts in lecture are made with data from archaeology, physical anthropology, and social/cultural anthropology.

ANTH 121. Archaeology of Mexico. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Provides an upper division introduction to the archeology of Mesoamerica for students not majoring in anthropology. Discusses the evolution of the ancient civilizations of Mesoamerica, including Mexico, Guatemala, Belize, Honduras, and El Salvador. Examines the development of societies from the earliest inhabitants to the growth of empires. Includes coverage of the Olmecs, Monte Alban, Teotihuacan, the Classic Maya, the Toltecs, and the Aztecs.
Note: Cannot be used to meet the requirements of the Anthropology major; interested majors should take ANTH 122.

ANTH 122. The Evolution of Early Mesoamerican States. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Traces the emergence of pre-hispanic state societies in Mesoamerica from the growth of the earliest settlements to the collapse of the Aztec empire. Analyzes how complex societies evolved in Mesoamerica, focusing on such evidence as household and village social organization, craft specialization and interregional exchange, religion and ideology, and the logistics of state management and imperial expansion.

ANTH 123. Ancient Technology. 3 Units
Term Typically Offered: Fall, Spring

Examines the importance of various preindustrial technologies, and the techniques and methods involved in their manufacture and use. Topics include stone, bone, wood, and hide working, ceramics, weaving, metallurgy, and other crafts essential to human survival in ancient and contemporary societies around the world.

ANTH 124. Environmental Archaeology. 3 Units
Prerequisite(s): ANTH 3 and Anthropology (Archaeological and Biological Anthropology) concentration.
Term Typically Offered: Fall, Spring

All human societies depend on their natural surroundings, and so the reconstruction of prehistoric environments is an essential part of archaeological interpretation. Three interrelated aspects of environmental archaeology are considered: (1) general approaches to paleoenvironmental reconstruction, employing various biological and geological indicators; (2) the analysis of human plant and animal food remains; and (3) the geological and other processes that are responsible for the formation of archaeological deposits.

ANTH 125. Historical Archaeology. 3 Units
Term Typically Offered: Fall, Spring

Written history only records a small portion of human activities that occurred in the recent past. Explores the numerous methods of investigation, analysis and interpretation that are available to aid the historical archaeologist in discovering missing information and in some cases correcting erroneous statements, assumptions and interpretations about the past.

ANTH 126. Techniques of Archaeological Analysis. 3 Units
Prerequisite(s): ANTH 3 and Anthropology (Archaeological and Biological Anthropology) concentration.
Term Typically Offered: Fall, Spring

Introduces students to various approaches to archaeological analysis, focusing on how different classes of data are collected, classified, and interpreted to resolve research issues. Includes such topics as the handling, treatment, and analysis of flaked and ground stone tools, plant and animal food remains, and other types of archaeological materials. Lecture one hour, laboratory six hours.
Note: May be repeated once for credit.

ANTH 127. Cultural Resource Management in Theory and Practice. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Takes a wide-ranging look at how cultural resources are managed and preserved in California, the greater U.S., and other parts of the world. More than just a review of applicable laws and regulations, it is designed to offer a history of historic preservation, examine its role in our society, and explore the prospects for its continued presence. Practical aspects of Cultural Resource Management (CRM) are reviewed with respect to designing, budgeting, and performing archaeological surveys, site evaluation studies, and data recovery or mitigation programs.

ANTH 128. Indians of California. 3 Units
Term Typically Offered: Fall, Spring

Provides a survey of the traditional cultures of California Native American groups as they existed immediately after Western contact. Exploration of the ecological linguistic, economic, social, political, and religious diversity of California Native American groups provides a background for analysis of current anthropological theories of hunter-gatherer adaptations, subsistence intensification, political economy, cultural complexity, and California prehistory.

ANTH 130. Social Justice in Interdisciplinary Perspective. 3 Units
Prerequisite(s): Sophomore standing or instructor permission.
Term Typically Offered: Fall, Spring

Examines the nature and forms of social justice and injustice. Addresses key philosophical and theoretical models and debates over the meaning of social justice, using historical and contemporary examples to highlight important concepts and controversies. Faculty from different departments within SSIS, and occasionally from other colleges, will address how their discipline understands and analyzes issues of social justice. Students will be encouraged to critically assess the assumptions of various perspectives on social justice, and to address the relationship of academe and social activism in achieving social justice.
Cross listed as ID 124, ENVS 124, ETHN 124, FACS 124 and SOC 124. Only one may be counted for credit.

ANTH 131. Europe in the Ethnographic Imagination. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

More than a place or 'continent,' Europe is a social and ideological construction employed to unite diverse linguistic and cultural communities. Focuses on major themes in contemporary Europeanist anthropology, including transformations within and between local communities and regions (especially with regards to Northern Ireland, the former Society bloc, and Yugoslav federation), immigration, neo-nationalist extremism, the changing character of religious institutions, and the European Union as a framework for organizing identity and society.

ANTH 134. Japanese Culture and Society. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Culture of the Japanese: traditional and modern, rural and urban, cultural and social institutions; village and urban organization; and family structure. Aspects of social change in contemporary rural and urban Japan.

ANTH 135. Indians of North America. 3 Units
Term Typically Offered: Fall, Spring

Provides a survey of traditional Native American societies and culture areas north of Mexico. Readings, lectures, and discussions emphasize primary ethnographic and historic data that provide the richest accounts of Amerindian cultures at the time of European contact and shortly thereafter.

ANTH 138. Peopling of North America. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

Introduction to the earliest evidence of human occupation of North America. Covered topics include the origins of the indigenous populations, the timing of the initial colonization, the number of migration events, paleoenvironment reconstruction, and causes for megafaunal extinctions. A variety of evidence will be discussed in detail, including chronology, paleoenvironmental data, the material culture, modern and ancient genetics, and linguistic prehistory. Political and social dimensions of conducting research on origins of Native Americans are also reviewed.

ANTH 140. Social Anthropology. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Cross-cultural comparisons of the structures and functions of non-literate and complex societies; the diversity of social and territorial units, their analysis and classification; and the study of social organization and control and social change in relation to kinship, marriage and family, lineage and clan, law, politics, economics and religion in diverse societies.

ANTH 141. Culture Theory. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Exploration of the concepts, dimensions and dynamics of culture theory, viewing culture as an adaptive, comparative, cognitive, structural and symbolic system.

ANTH 142. Political Anthropology. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Explores political anthropology as a specialized field of anthropological inquiry. Analyzes the articulation of power, authority, and legitimacy in non-state and state based societies. Contributes to an understanding of the transforming powers of modernity and resistance to it and develops a critical appreciation of how age, status, class, ethnicity, race, gender and religious ideologies shape political order within various societies around the world.

ANTH 143. Culture and Society in Mexico. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to the cultural and social institutions of the Mexican people. The changing patterns of family, economic, political, religious, and educational systems in Mexico.

ANTH 144. Contemporary American Culture in Anthropological Perspective. 3 Units
Prerequisite(s): ANTH 146
Term Typically Offered: Fall, Spring

Anthropological analysis of contemporary American culture viewed from the perspective of both internal and external observers, with emphasis on such subjects as cultural myths and social realities, values, ideology and world view, family and cultural transmission, social institutions and structures, religious ceremonies and magical rituals, and other customs and practices that establish American culture as one of the more bizarre and exotic in the world ethnographic literature.

ANTH 145. Peoples and Cultures of Latin America. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Exploration of diversity of peoples and cultures in Latin America and the common experiences such as colonialism, ethnicity, and economy that shape their lives. Aspects of culture examined include: race and ethnicity, colonialism and its implications, the state and political institutions, religious systems, kinship and social organization, gender, economic processes, and issues pertaining to environment, urbanization, globalization, nationalism, and transnationalism.

ANTH 146. Ethnographic Analysis. 3 Units
Prerequisite(s): ANTH 2.
Term Typically Offered: Fall, Spring

Introduces students to current techniques, theories, and debates in ethnographic research and analysis through the use of ethnographies and related works. Critically examines the production of ethnographic knowledge in socio-cultural anthropology from historical and contemporary perspectives.

ANTH 147. Peoples of Southeast Asia. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Survey of the native peoples of Southeast Asia (Laos, Vietnam, Thailand, Philippines, Malaysia, Indonesia, Burma and Singapore). Emphasis is on examining the forms of social and cultural pluralism in contemporary Southeast Asian societies.

ANTH 148. Anthropology of Chinese Societies. 3 Units
Term Typically Offered: Fall, Spring

Exploration of the cultures of three Chinese societies (Taiwan, Hong Kong, and the People's Republic of China) in each of their unique historical contexts. A comparison and contrast of how these societies, though sharing a common cultural heritage, have had different paths of development in recent times. Aspects of culture examined include: the state and political institutions; religious systems; kinship and social organization; economic processes; and issues of regional integration, nationalism and transnationalism.

ANTH 149. Cultures of South Asia. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Exploration of cultural practices in different South Asian societies. Analyzes the impact of colonialism, post-colonialism and discourses of modernity on South Asian societies. Examines the process of state formation, nation-building, communal conflict, economic transformations and the politics of caste, gender and class in contemporary South Asia.

ANTH 150. Human Osteology. 4 Units
Prerequisite(s): ANTH 1 and ANTH 1A, or BIO 22; and Anthropology (Archaeological and Biological Anthropology) concentration.
Term Typically Offered: Fall only

Provides students a hands-on, in-depth study of human osteology. Learn growth and development of the skeletal tissues and identification of the individual skeletal elements, and practice basic measurements, sexing and aging of skeletal material. A prerequisite for advanced techniques in forensic anthropology. Students will work with the department's osteological materials.

ANTH 151. Human Paleontology. 3 Units
Prerequisite(s): ANTH 1 and ANTH 1A.
Term Typically Offered: Fall, Spring

Survey of the field of human evolution from primate beginnings to modern humans. Emphasizes the interpretation of the fossil evidence and the major trends in hominid evolution, including the origins and relationships of the extinct forms of humans.

ANTH 152. Comparative Primate Morphology. 3 Units
Prerequisite(s): ANTH 1 & ANTH 1A
Term Typically Offered: Fall, Spring

Study of skeletal and soft-anatomical components of living non-human apes in the context of evolution and development. Covers evolutionary theory, embryology, growth and development, taxonomy, systematics, and basic functional morphology of the skeletal system in primates. Three-hour seminar, with some lecture and hands-on experience with skeletons and casts.
Note: BIO 1, BIO 2 or BIO 7 recommended, but not required.

ANTH 153. Evolutionary Medicine. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the application of evolutionary theory to human health and disease. Evolutionary medicine is a rapidly growing interdisciplinary specialization utilizing insights from evolutionary theory and human evolutionary ecology to inform understandings of human health, development and disease; and also to critique existing biomedical theory about the human condition. Topics include reproduction, child birth, lactation, growth and development, infectious diseases, parasites, diet and nutrition, mental and behavioral disorders, and substance use and addiction.
Note: ANTH 1, BIO 10, BIO 11, or PSYC 2 recommended.

ANTH 154. Primate Behavior. 3 Units
Term Typically Offered: Fall, Spring

Survey of the genetic, ecological and social influences on non-human primate behavior from an evolutionary perspective; covers the major non-human primate groups, including their taxonomy, major adaptations, and their present geographic distribution. The history and development of primate behavior also will be considered with an emphasis on various models for interpreting behavior.

ANTH 155. Fundamentals of Biological Anthropology. 3 Units
Prerequisite(s): ANTH 1 and ANTH 1A.
Term Typically Offered: Fall, Spring

Survey of the development of method and theory in physical anthropology from its origins in zoology, anatomy, and medicine, to the various approaches currently used in the study of human biology and evolution. Concepts considered include the scientific method, modern genetics, evolutionary theory, the race concept and other approaches to explaining human variation, taxonomy and systematics, and macro-evolutionary models. Critical reading and analytical skills will be emphasized.

ANTH 156. Evolution of Human Behavior. 3 Units
Prerequisite(s): ANTH 1, BIO 10, or PSYC 2 recommended.
Term Typically Offered: Fall, Spring

Introduction to the application of evolutionary theory to human behavior and psychology. Reviews and contrasts contemporary perspectives of human behavioral evolution with emphasis on insights from the emerging field of evolutionary psychology. Topics include human behavior and cognition as adaptations, 'selfish genes,' game theory, evolution of social behavior, evolution of altruism, human mating strategies, parenting, behavioral disorders, evolution of the life cycle, human behavioral ecology, Darwinian medicine, and evolutionary psychology.

ANTH 157. Human Variation. 3 Units
Prerequisite(s): ANTH 1, BIO 10, or instructor permission.
Term Typically Offered: Fall, Spring

Survey of the basic principles of human genetics with emphasis on the mechanisms that shape human evolution and the development of human races. Analyzes the laws of heredity as exhibited in modern human populations and human adaptability to climatic extremes. Historical development of concepts. Discussion of most current research.

ANTH 158. Human Skeletal Analysis. 4 Units
Prerequisite(s): ANTH 150. Paired Course
Term Typically Offered: Spring only

Provides advanced techniques in osteology and forensic anthropology essential for many practicing physical anthropologists. Discussion and survey of the primary literature, followed by intensive hands-on experience with human skeletal remains. Included: techniques for determining age, sex and ethnicity; measurement; pathology; and trauma. The role of the forensic anthropologist and archaeologist, ethical considerations, and human rights issues are also covered. Two-hour seminar, and a six-hour lab involving substantial hands-on experience with human skeletal remains.

ANTH 159. Forensic Anthropology. 3 Units
Prerequisite(s): Any lower-division GE Area B2 course.
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Overview of forensic anthropology - an applied field of biological anthropology that works with law enforcement, medical examiners, and human rights agencies. Forensic anthropologists answer questions of medico-legal significance by applying techniques designed for analysis of human skeletal remains. Includes determining time since death, the biological profile, trauma analysis and the role of the forensic anthropologist in human rights investigations.

ANTH 160. Linguistic Anthropology. 3 Units
Prerequisite(s): ANTH 4 or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to language and linguistics for anthropologists with emphasis on the role of linguistic anthropology in the development of theory and method within the discipline; non-human communication systems, language acquisition, and culture theory; the fundamentals of descriptive and structural linguistics; types of human languages; the diversity and distribution of languages from prehistoric to modern times; fundamentals of historical linguistics and proto-cultural studies.

ANTH 161. African Cultures and Societies. 3 Units
Prerequisite(s): ANTH 146 or instructor approval
Term Typically Offered: Fall, Spring

Explores the cultural richness and regional variation of African societies. Engages students with central issues and debates pertaining to Africa in relation to the deepening global interconnectedness of the human socio-cultural worlds. Topical discussions include: colonial legacy, the postcolonial state and traditional authority; ethnic identity and cultural diversity; family, kinship and the African youth; masculinity, sexuality and women; Islam, Christianity and indigenous spirituality; health, poverty and development; migration and globalization; ecotourism and African cultures.

ANTH 162. Language and Culture. 3 Units
Prerequisite(s): ANTH 4 or instructor permission.
Term Typically Offered: Fall, Spring

Relationship between language and culture; historical relationships between languages; language families and major cultural traditions; cross-cultural studies of how the language influences perception and the organization of reality; the ways in which language is embedded in social life and practices, and the ways in which various cultural patterns and values are reflected in language.

ANTH 163. Urban Anthropology. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Overview of both anthropological method and theory applied to research of urban environments and a survey of significant anthropological studies that have been conducted in these settings. Examines such topics as the urbanization process, the culture of cities, urban sub-cultures, social problems in urban areas, social networks and adaptive kinship strategies in cities, and the concentration and exercise of power, wealth and influence in urban centers.

ANTH 164. Culture Change. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Anthropological study of mechanisms and process of social and culture change; basic theories of ecological adaptation and cultural evolution; action chains and cultural patterns; technological innovation, migration, acculturation, cultural dissonance, conflict, and cultural revitalization; analysis of case studies emphasizing contemporary conditions and problems; rapid technological innovation, population control, immigration and acculturation, social diversification, ethnic conflict.

ANTH 165. Applied Anthropology. 3 Units
Prerequisite(s): ANTH 105 or ANTH 108 or ANTH 140 or ANTH 141 or ANTH 142 or ANTH 167 or ANTH 168 or ANTH 176; and Anthropology (Culture, Language, and Society) concentration.
Term Typically Offered: Fall, Spring

Provides tools for exploring the application of an anthropological paradigm to various aspects of culture change and conflict. Content is organized into a series of critical topical areas such as modernization, economic development, human services, and urbanization.

ANTH 166. Rise of Religious Cults. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Examination of cult movements, involving comparisons of the ideals, objectives and symbolic processes common to ecstatic religious movements throughout the world -- from Melanesian cargo cults to the Peoples' Temple. Anthropological perspectives are used to examine religious cults as conscious attempts to perpetuate traditional values and social goals or to radically change the status quo; millenarian movements, crisis cults, nature communes, exotic religious importations, and cult characteristics of modern secular movements.

ANTH 167. Religion and Culture. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Examines ethnographic perspectives on the character and intersections of religion, ritual, and culture. Surveys the thought of 'classical' social theorists (e.g., Durkheim, Tylor, Weber, and Evans-Pritchard), and concentrates on central topics in the anthropology of religion. Including the political nature of embodiment and trance, religion and nationalism, the significance of language and performance, the gendered character of many religious phenomena, and science and religion as competing epistemologies.

ANTH 168. Folklore in Anthropological Perspective. 3 Units
Prerequisite(s): ANTH 160 or ANTH 162 or instructor permission.
Term Typically Offered: Fall, Spring

Anthropological contributions to the study of folklore; survey of oral literature and other folklore forms, such as myth, folktale, legend, proverb, riddle, and games, in their social contexts; folklore as 'autobiographical ethnography,' folklore in everyday life, survey and comparison of folklore traditions in several culture areas.

ANTH 169. Research Methods in Linguistic Anthropology. 3 Units
Prerequisite(s): ANTH 160 or ANTH 162, and Anthropology (Culture, Language, and Society) concentration.
Term Typically Offered: Fall, Spring

Consideration of language in its social context: language and power, language and gender, interethnic communication, language and race, pidgins and creoles, multilingualism, standardization, language ideology. Instruction in ethnographic and linguistic methods of data collection and analysis; identification of socially significant linguistic variables. Contributions of the study of contextualized speech to linguistic theory.

ANTH 170. The Religious Landscape of the Sacramento Valley. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Introduction to the field study of religious communities. Addresses the nature of religious pluralism in the U.S. today. The practice and belief systems of at least five different religious communities will be studied each semester. Students are required to do an in-depth term project based on research in one or more religious communities.
Cross Listed: HRS 170; only one may be counted for credit.

ANTH 171. Bioarchaeology: Analyzing Human Remains from Archaeology Sites. 3 Units
Prerequisite(s): ANTH 1 and ANTH 1A or instructor permission
Term Typically Offered: Fall, Spring

An exploration of research conducted on human remains from archaeological sites, including historical and ethical perspectives. Examines the effects of funerary context and preservation on skeletal remains. Demonstrates relevance of human skeletal analysis to understanding demography, causes of human skeletal variation, dietary patterns, and relevant themes in paleopathological research. Special emphasis placed on infectious disease, growth and development, activity patterns, injury and trauma, craniofacial adaptations, and methods for identifying genetic relationships in human skeletal remains.

ANTH 172. Anthropologies of Music. 3 Units
Prerequisite(s): ANTH 146 or Instructor Permission.
Term Typically Offered: Fall, Spring

Introduces students to current anthropological research on social groups and cultural practices that orient around and draw inspiration from music, wherever and however it is conceived. Course focus is not on music theory or structure; rather, it critically examines anthropological and ethnographic works that focus on the relations among such social domains and features as visual and aural aesthetics, political belief, gender, ritual, religion, race, and ethnicity.

ANTH 173. Anthropology of Contemporary Asia. 3 Units
Prerequisite(s): ANTH 146 or instructor permission
Term Typically Offered: Fall, Spring

This course examines contemporary Asia as an articulation of intersecting historical, cultural, political and economic processes. The course will focus on postcolonial developments and critically explore the manner in which process of globalization and neoliberal strategies embed themselves within, and the responses they elicit from societies across Asia.

ANTH 174. Anthropology of Food. 3 Units
Prerequisite(s): ANTH 146 or instructor permission
Term Typically Offered: Fall, Spring

Examines food and eating from an anthropological perspective. Demonstrates how food communicates social messages about individual or group identity, creates social boundaries or forges belonging, and can reflect one's politics, values, and ethics. Through ethnographic examples and attention to global processes, this course explores food production, circulation, and consumption.

ANTH 175. Anthropology of Globalization. 3 Units
Prerequisite(s): ANTH 146 or instructor permission
Term Typically Offered: Fall, Spring

The course introduces students to major themes that inform anthropological understanding of globalization. This course will explore theoretical perspectives, topics, and methods of analysis developed in anthropology to capture the effects of intermingling global/local cultural forces and the diverse relations of power that structure them and in which they are embedded.

ANTH 176. Museums, Culture, and Society. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Provides an introduction to museum anthropology. Surveys the emergence of modern anthropology from its origins in 17th century natural history to its late 19th century institutionalization in museums. Explores the role of collectors, curators and financial patrons in the development of museums and social theory. Examines the contemporary poetics and politics of museums and cultural interpretation, including cultural property rights, cultural self-representation, collaborative exhibit development, and the ethnography of museums.

ANTH 177. Museum Methods. 3 Units
Prerequisite(s): ANTH 176 and Anthropology (Culture, Language, and Society) concentration.
Term Typically Offered: Fall, Spring

Combined lecture and laboratory course designed to teach basic museum methods. Surveys contemporary issues and practices in museum governance, management, interpretation, and evaluation. Provides hands-on collections and exhibit experience, including participation in the design, fabrication and installation of an exhibition.

ANTH 178. Internship. 3 - 4 Units
Term Typically Offered: Fall, Spring

Practical experience in an approved professional environment. Student intern will work directly with professionals in public and private agencies where opportunities exist for anthropological work. Supervision and evaluation are provided by a faculty internship director and the on-site supervisor. Placements require from 15-20 hours per week.
Note: May be repeated for credit.

Credit/No Credit

ANTH 179. Observing Primate Behavior. 3 Units
Prerequisite(s): ANTH 1 and ANTH 1A and Anthropology (Archaeological and Biological Anthropology) concentration or instructor permission.
Field trip
Term Typically Offered: Spring only – odd years

Introduces research design and methods employed in the study of non-human primate behavior. Topics covered include developing ethograms, behavioral and ecological sampling techniques, and basic methods for data analysis, including simple descriptive and analytical statistics. Culminates in a research report to address a specific research question through behavioral observations conducted at the Sacramento Zoo.

ANTH 181. Anthropology of Human Rights. 3 Units
Prerequisite(s): ANTH 146 or instructor permission.
Term Typically Offered: Fall, Spring

Examines multiple dimensions of human rights from an anthropological perspective. Explores the history and development of human rights ideas and legal conventions, and how these ideas and conventions are appropriated, adapted, contested or rejected in different cultural and political contexts. Using ethnographic case studies from around the world, addresses how the human rights discourse mediates the relationship between specific groups of people, their national states and international conventions and institutions.

ANTH 183. Women Cross-Culturally. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Position of women in various societies, preliterate through contemporary industrial; the evolution of women's roles and rights cross-culturally.

ANTH 186. Culture and Poverty. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Analyzes poverty in American society: the cross-cultural context, social inequality in the U.S., theoretical perspectives and their influence on policy, present trends and implications for the future.

ANTH 188. Anthropology of the Body. 3 Units
Term Typically Offered: Fall, Spring

Study of the diverse ways that humans explain and attempt to alter the human body. Focus is on the meanings and implications of our own bodily experiences through objective comparison of the experiences, explanations and techniques found in our society with those in others.

ANTH 189. Critical Medical Anthropology. 3 Units
Prerequisite(s): ANTH 146
Term Typically Offered: Fall, Spring

Critical Medical Anthropology examines the interplay of cultural, environmental, and biological processes in diverse experiences of health and illness. Students will develop an understanding of the history of Medical Anthropology, its key themes and theoretical perspectives, and its present concerns. We will consider biomedicine as a cultural sphere, track the persistence of `alternative¿ healing practices and the impact of social determinants on health, and analyze the formation of new demands on states and subjects in the name of suffering.

ANTH 190. Advanced Topics in Linguistic Anthropology. 3 Units
Prerequisite(s): ANTH 160 or ANTH 162 or instructor permission.
Term Typically Offered: Fall, Spring

Seminar examining contemporary developments in theories and methods of linguistic anthropology.
Note: May be repeated for credit providing the topic and instructor are not the same.

ANTH 191. Anthropology Practicum. 3 Units
Prerequisite(s): ANTH 165 or ANTH 169 or ANTH 177 or ANTH 192B; and senior level
Term Typically Offered: Fall, Spring

Students work 3-6 hours per week off campus in one of several research institutions under the supervision of institutional personnel. Students are required to become familiar with the scholarly literature relevant to their placement, to participate in on-campus meetings, and to write a research paper integrating the research and fieldwork aspects of the practicum. Permission of instructor and ANTH coordinator required prior to registration. Open to seniors only.

ANTH 192A. Laboratory Work in Archaeology. 1 Unit
Prerequisite(s): ANTH 3
Corequisite(s): ANTH 195A; may be waived with instructor permission.
Term Typically Offered: Fall, Spring

Introduces methods used in the basic laboratory preservation, cataloging, and initial analysis of various materials recovered through ANTH 195A survey and excavation projects; always offered in conjunction with ANTH 195A.
Note: May be repeated for credit.

ANTH 192B. Laboratory in Ethnographic Techniques. 1 Unit
Prerequisite(s): ANTH 105 or ANTH 108 or ANTH 140 or ANTH 141 or ANTH 142 or ANTH 167 or ANTH 168 or ANTH 176, and Anthropology (Culture, Language, and Society) concentration.
Corequisite(s): ANTH 195B.
Term Typically Offered: Fall, Spring

Design and discussion of research strategies, primary ethnographic techniques, the development of interviewing skills, and practice in the use of various recording technologies.

ANTH 195A. Fieldwork in Archaeology. 2 Units
Prerequisite(s): ANTH 3
Corequisite(s): ANTH 192B
Term Typically Offered: Fall, Spring

Introduction to archaeological field methods, covering practical aspects of how to identify and investigate isolated artifact finds, particular sites and features, and entire landscapes. Covering survey and excavation techniques, basic approaches to sampling, mapping and navigation, stratigraphic excavation, artifact and feature recording, and recovery methods.
Note: May be repeated for credit.

ANTH 195B. Fieldwork in Ethnology. 2 Units
Prerequisite(s): ANTH 105 or ANTH 108 or ANTH 140 or ANTH 141 or ANTH 142 or ANTH 167 or ANTH 168 or ANTH 176, and Anthropology (Culture, Language, and Society) concentration.
Corequisite(s): ANTH 192B
Term Typically Offered: Fall, Spring

Directed team fieldwork in ethnology.

ANTH 195C. Fieldwork in Physical Anthropology. 2 - 3 Units
Term Typically Offered: Fall, Spring

Individual or group fieldwork in various areas of physical anthropology, under the supervision of individual faculty members; may involve related supervised laboratory work.

ANTH 196S. Senior Seminar in Anthropology. 3 Units
Prerequisite(s): Anthropology majors with senior standing
Term Typically Offered: Fall, Spring

Anthropology approaches knowledge about the human condition from multidisciplinary perspectives. This senior seminar synthesizes fundamental themes from among the sub-disciplines. Students will engage with concepts and issues from different anthropological perspectives, and then work to identify common historical, methodological and theoretical anthropological themes. On completion of the course, students will have learned to seek and interpret anthropological knowledge in a holistic fashion.

ANTH 196T. Zooarchaeology. 3 Units
Prerequisite(s): ANTH 3
Term Typically Offered: Fall, Spring

An examination of past and recent research conducted on animal remains from archaeological sites. Discussion and survey of the primary literature in evaluating the role animal exploitation plays in human evolution and among small scale foraging, pastoralist, and complex societies. Emphasis on vertebrate taphonomy, reconstruction of diet from faunal remains, and ecological and evolutionary theory to understand human-animal relationships through time.

ANTH 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty member under whom the individual work is to be conducted and the Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work. May be repeated for credit.

Credit/No Credit

ANTH 200. General Methods in Anthropology. 3 Units
Term Typically Offered: Fall, Spring

Explores uses of scientific methodology in anthropology through the examination of specific case studies in the various specialties. Focus is on the relationship among techniques, methods, and methodology; hypothesis and theory; units of analysis and comparison; deductive and inductive reasoning; inferential processes; various types of comparison (casual, controlled, hologeistic); limitations of, and objections to, "the comparative method.'

ANTH 201. Anthropological Theory. 3 Units
Prerequisite(s): Graduate status in anthropology or instructor permission.
Term Typically Offered: Fall, Spring

Intensive reading and seminar discussion in topics on anthropological theory and research.
Note: May be repeated for credit provided topic is not repeated.

ANTH 202. Biological Anthropology Seminar. 3 Units
Term Typically Offered: Fall, Spring

Survey of contemporary issues in physical anthropology.

ANTH 203. Archaeology. 3 Units
Term Typically Offered: Fall, Spring

Explores the intellectual development of archaeological method and theory; examines the history of archaeological thought from its advent to the present day, looking in detail at pre-scientific, culture-historical, processual, and post-processual approaches to the discipline; emphasis is placed on the role of archaeology as a branch of anthropology and as a historical, humanistic, and/or scientific enterprise.

ANTH 204. Current Problems in Archaeological Method and Theory. 3 Units
Term Typically Offered: Fall, Spring

Explores recent methodological and theoretical developments within archaeology; focus is on contemporary debates within the discipline; topical coverage varies; examines conceptual and practical concerns, highlighting possibilities and limitations of new approaches to archaeological problems.
Note: May be repeated for credit provided topic and instructor are not repeated.

ANTH 205. Ethnology. 3 Units
Term Typically Offered: Fall, Spring

Seminar is designed for students to develop a working knowledge of anthropological approaches to a number of major issues in ethnology. The focus is on the analysis of case studies.
Note: May be repeated once for credit with different instructor.

ANTH 207. Language and Culture. 3 Units
Term Typically Offered: Fall, Spring

Critical examination of contemporary studies in the relationship between language and culture; nonhuman primate communication and the origin of speech; non-verbal communication; historical linguistics; comparative semiology; ethnosemantics; applications of linguistic models of analysis in the study of culture.
Note: May be repeated for credit given that the instructor changes.

ANTH 210. Research Design in Anthropology Seminar. 3 Units
Prerequisite(s): instructor permission,
Term Typically Offered: Fall, Spring

Emphasizes research design in anthropology with a focus on proposal writing in the discipline. Centers on the development of the thesis research proposal while gaining insight on the process of acquiring competitive funding from government agencies and private foundations. Covers the fundamentals of identifying a research question, developing hypotheses, comprehensive literature reviews, intellectual merit and broader impacts of research, and budget justification.

ANTH 222. Bioarchaeology Seminar. 3 Units
Prerequisite(s): Graduate status in anthropology.
Term Typically Offered: Fall, Spring

Provides an intensive, detailed discussion of method and theory in the skeletal biology of past human populations. Topics discussed include: demography, dietary analysis, mortuary dimensions, health and disease, biological distance and DNA analysis. Focuses on the interaction of biology and behavior, particularly the influence of culture and the environment on the skeletal and dental tissues.

ANTH 223. Areal Archaeology. 3 Units
Term Typically Offered: Fall, Spring

Provides an intensive examination of archaeological problems within a selected regional or topical area. Through general readings and case studies, students will critically assess how current perspectives regarding relevant issues have evolved and determine how contemporary viewpoints might be improved or expanded.
Note: May be repeated for credit provided topic and instructor are not repeated.

ANTH 226. Advanced Techniques of Archaeological Analysis. 3 Units
Prerequisite(s): ANTH 126 or instructor permission.
Term Typically Offered: Fall, Spring

Examines more refined approaches to archaeological analysis, focusing on how various classes of data are collected, classified, and interpreted to resolve directed research problems. Emphasis is on such topics as sampling procedures and statistical assessment of data rather than descriptive analysis and interpretation. Lecture one hour; laboratory six hours.

ANTH 251. Human Paleontology. 3 Units
Survey of the field of human evolution from primate beginnings to modern humans. Emphasizes the interpretation of the fossil evidence and the major trends in hominid evolution, including the origins and the relationships of the extinct forms of humans.

ANTH 258. Human Skeletal Analysis. 4 Units
Prerequisite(s): ANTH 150 or instructor permission. Paired course
Term Typically Offered: Spring only

Provides advanced techniques in osteology and forensic anthropology essential for many practicing physical anthropologists. Discussion and survey of the primary literature, followed by intensive hands-on experience with human skeletal remains. Included: techniques for determining age, sex and ancestry; measurement; pathology; and trauma. The role of the forensic anthropologist and archaeologist, ethical considerations, and human rights issues are also covered. Course format is a two-hour seminar, and a six-hourlab involving substantial hands-on experience with human skeletal remains.

ANTH 274. Environmental Anthropology. 3 Units
Term Typically Offered: Fall, Spring

Examines the mutual constitution of nature-culture, society-environment in diverse ethnographic settings. Demonstrates that ideas about nature and material engagements with it are shaped by the dynamics of social, political, and economic relations in historical contexts. Surveys a range of environmental issues and the cultural politics of environmental struggles through different conceptual, theoretical, analytical approaches in cultural anthropology.

ANTH 276. Museum Anthropology. 3 Units
Prerequisite(s): Graduate status in Anthropology or instructor permission.
Term Typically Offered: Fall, Spring

Surveys the practical, theoretical, and historical dimensions of museum anthropology and material culture studies, with particular emphasis on the U.S. and California. Situates contemporary issues related to the collection, exhibition, and repatriation of ethnographic and archaeological materials within the sociopolitical context of the globally based indigenous rights movement.
Note: Recommended for graduate students who plan to intern in the Anthropology Museum.

ANTH 278. Internship. 3 - 4 Units
Term Typically Offered: Fall, Spring

Practical graduate level experience in an approved professional environment. Student intern will work directly with professionals in public and private agencies where opportunities exist for anthropological work. Supervision and evaluation are provided by a faculty internship director and the on-site supervisor. Placements require from 15-20 hours per week.
Note: May be repeated for credit given that topic and instructor changes.

Credit/No Credit

ANTH 292A. Laboratory Work in Archaeology. 1 Unit
Prerequisite(s): ANTH 192A.
Corequisite(s): ANTH 295A.
Term Typically Offered: Fall, Spring

Laboratory preservation, cataloging and initial analysis of materials recovered through archaeological fieldwork. Graduate students are expected to help supervise undergraduate students and complete a self-directed project under the supervision of the instructor.
Note: Participant must have already completed ANTH 192A or its equivalent. May be repeated once for credit.

ANTH 295A. Fieldwork in Archaeology. 2 Units
Prerequisite(s): ANTH 195A or equivalent.
Corequisite(s): ANTH 292A.
Term Typically Offered: Fall, Spring

Students will assist the instructor in supervising undergraduate students or complete an assigned project in addition to the required fieldwork.
Note: May be repeated given that the topic and instructor changes.

ANTH 295B. Fieldwork in Ethnology. 2 - 3 Units
Term Typically Offered: Fall, Spring

Supervised graduate level fieldwork in ethnology and ethnography.

ANTH 295C. Fieldwork in Physical Anthropology. 2 - 3 Units
Term Typically Offered: Fall, Spring

Supervised graduate level fieldwork in physical anthropology. May include laboratory research.

ANTH 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of faculty member under whom individual work is to be conducted and the Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work at the graduate level; May be repeated given that topic and instructor changes; May be taken twice in the same semester.

Credit/No Credit

ANTH 500. Master's Thesis. 3 Units
Prerequisite(s): Advanced to Candidacy, successful completion of thesis research proposal, and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the master's degree. Number of units of credit is determined by the candidate's Master's degree advisory committee. Should be taken in final semester prior to the completion of all requirements for the degree.

Arabic (ARBC)

ARBC 1A. Elementary Arabic. 4 Units
Term Typically Offered: Fall, Spring

Introduction to standard Arabic, including Arabic letters and sounds, the essentials of Arabic grammar, and basic instruction in all four language skills: speaking, reading, listening and writing. In addition to getting a start in modern Arabic, students will also learn about social aspects of the use of Arabic.

ARBC 1B. Elementary Arabic. 4 Units
Prerequisite(s): ARBC 1A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of ARBC 1A.

ARBC 2A. Intermediate Arabic. 4 Units
Prerequisite(s): ARBC 1B or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of ARBC 1B with an ongoing emphasis on communication skills and the rudiments of literacy, as well as continued integration of cultural and social components with the language learning experience.

ARBC 2B. Intermediate Arabic Conversation 2. 4 Units
Prerequisite(s): ARBC 2A or instructor permission.
Term Typically Offered: Fall, Spring

Continuation of ARBC 2A intermediate conversation with an ongoing emphasis on communication skills and the rudiments of literacy, as well as continued integration of cultural and social components with the language learning experience.

ARBC 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

Art (ART)

ART 1A. Art, Religions, and Power before 1400. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

An introduction to art and visual culture from across the ancient world, including Africa, the Americas, Asia, and Europe. Students will analyze and compare art from a variety of cultures, exploring themes such as ¿Gender, Race, and The Body,¿ ¿Sacred Art/Sacred Space,¿ and ¿Art and Power.¿

ART 1B. Art in the Western World: From Renaissance to Baroque. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Survey of architecture, crafts, painting, and sculpture of the Eastern Mediterranean and European cultures.
Note: Recommended for freshman or sophomore years. It is recommended that ART 1A be taken before ART 1B.

ART 1C. Global Modern and Contemporary Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

A 3-unit lecture based survey of the history of world art from the late 18th century to the present, from the European Rococo, Enlightenment, age of science and revolution, through Neo-Classicism, Romanticism and the rise of the international avant-garde, Realism, Impression, Symbolism, photography and film. In the 20th century, Fauvism, Cubism, the Bauhaus, Expressionism, Pop, Minimal art, Postmodernism, conceptualism, performance, video and new media are considered from global perspectives and artistic production. Part of the art history foundation sequence.
Note: Recommended for freshman or sophomore years; It is also recommended that ART 1A and/or ART 1B be taken before ART 1C.

ART 2. History of Islamic Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Introduces students to the art and architecture of major Islamic cultures and offers a background in the religion and philosophy of Islam. Works of art from Muslim countries and regions are studied in comparison to those of other major Asian and European cultures. Lecture. 3 units

ART 3A. Traditional Asian Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Introduces students to the art and architecture of Asia from the pre-historic through pre-modern periods (approximately 1600). The styles, subjects, and significance of the art of India, Sri Lanka, Indonesia, Thailand, Burma, Cambodia, Tibet, China, Japan and Korea will be presented in a broad context including the history, geography, ethnic populations, languages, and religions of these countries (i.e., Buddhism, Hinduism, Jainism, Islam, Daoism, and Shinto).

ART 3B. Modern and Contemporary Asian Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

Covers the art and architecture of Asia from the modern period to the present day. Attention will be given to the impact of outside influences upon the development of art in several Asian countries, including India, Thailand, Vietnam, Indonesia, Philippines, China, Korea, and Japan. Contacts between those countries, their exposure to western visual culture through new or increased contact with the west, and the spread of Christianity all had an impact on Asian art during the period under consideration.

ART 4. European Visual Traditions. 3 Units
Term Typically Offered: Fall only

An introduction to European art and visual culture created from ca. 800 to 1800, from the age of Charlemagne to the French Revolution and the reign of Napoleon. This course will cover painting, architecture, sculpture, and the decorative arts and will analyze creative work in the context of religious, political, and social change.

ART 5. Art of the Americas. 3 Units
Term Typically Offered: Spring only

An introduction to art and visual culture from across the Americas, from ancient civilizations to the present, with an emphasis on indigenous cultural production. Students will analyze and compare creative work from a variety of cultures and time periods, exploring themes such as ¿Expressing Identities,¿ ¿Humans in the Natural World,¿ ¿Death, the Afterlife, and Living on,¿ and ¿Colonization and Resistance.¿

ART 7. Introduction to Art and Visual Culture. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

For the general education student who wants to explore the world of art and visual culture. A wide range of multicultural, historical, and contemporary art works, art media, art history, art ideas, and art practices are presented through illustrated lectures, discussions, field trips, guest lectures, studio visits, and beginning-level art projects.
Field trip(s) may be required.

ART 20A. Beginning Drawing. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring, Summer

Introduction to various techniques of and approaches to drawing, using still lifes, landscapes, and figures.
Note: fee course.

Fee course.

ART 20B. Intermediate Drawing. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall, Spring

Extension of drawing experiences initiated in ART 20A, with emphasis on surveying materials and concepts pertinent to contemporary and historical drawing.
Note: fee course.

Fee course.

ART 22. Beginning Painting. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall, Spring

Introduction to the methods and problems of painting in oil or acrylic medium.
Note: May be taken twice for credit. Fee course.

Fee course.

ART 24. Beginning Watercolor. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Not offered

Introduction to both transparent and opaque watercolor.
Note: May be taken twice for credit. Fee course.

Fee course.

ART 27. Beginning Color. 3 Units
Term Typically Offered: Fall, Spring

Investigation of the interactions of color based on the laws of perception, color composition, space, and design. An empirical study of the phenomena of color as developed by Josef Albers and Johannes Itten, and the use of color as a visual experience with acrylic paints.

ART 40. Beginning Printmaking. 3 Units
Prerequisite(s): ART 20A or ART 60
Term Typically Offered: Fall, Spring

Introduction to printmaking processes, their history, and their contemporary applications. Students will learn a combination of basic relief, intaglio, lithography, monotype, and/or screen print techniques, along with their historical and contemporary context.
Note: Fee course. This course will carry a fee of $75 to cover ink, plates, and other supplies.

Fee course.

ART 40B. Basic Printmaking: Etching. 3 Units
Term Typically Offered: Fall, Spring

Introduction to intaglio techniques, including etching, drypoint, and aquatint. Fee course.
Fee course.

ART 40D. Basic Printmaking: Relief. 3 Units
Term Typically Offered: Fall, Spring

Introduction to wood and linoleum cutting and printing. Fee course.
Fee course.

ART 40E. Basic Printmaking: Silkscreen. 3 Units
Term Typically Offered: Fall, Spring

Introduction to silkscreen processes and printing. Includes the construction of the equipment necessary to print direct drawing materials, and photo-established imagery. Fee course.
Fee course.

ART 50. Beginning Ceramics. 3 Units
Term Typically Offered: Fall, Spring

Projects in basic techniques and approaches to the potter's wheel. Fee course.
Note: May be taken twice for credit.

Fee course.

ART 53. Beginning Hand-Built Ceramics. 3 Units
Term Typically Offered: Fall, Spring

Basic techniques and approaches to pottery through practice in hand-building methods, including coil, slab, pinch, and combinations thereof. Fee course.
Note: May be taken twice for credit.

Fee course.

ART 60. Two-Dimensional Composition. 3 Units
Term Typically Offered: Fall, Spring

Structured exploration of principles used to organize two-dimensional images. Basic art elements and their properties are explored in a series of progressive projects.
Note: Recommended for freshman or sophomore years.

ART 70. Form, Space Vision. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Foundation in three-dimensional design primarily concerned with the visual dialogue between form and space. A heightened visual sensitivity for three-dimensional composition is a major objective of every project. Line, plane, and volume are utilized separately and in concert to construct three-dimensional forms. A variety of materials are employed in the activation of form and space: wire, cardboard, clay, wood, and plaster. Fee course.
Note: Recommended for freshman or sophomore years.

Fee course.

ART 74. Beginning Jewelry. 3 Units
Term Typically Offered: Fall, Spring

Introduction to techniques and tools used in the design and fabrication of jewelry, such as lost wax casting, stone setting, and finishing processes. Emphasis is on compositional arrangement and finish. Fee course.
Fee course.

ART 75. Beginning Metalsmithing. 3 Units
Term Typically Offered: Fall, Spring

Introduction to techniques, tools, and methods used in fabrication of ferrous and non-ferrous metal, such as piercing, riveting, soldering, forging, and finishing processes. Emphasis is on composition and imagery. Fee course.
Fee course.

ART 80. Materials Methods. 3 Units
Term Typically Offered: Fall, Spring

Develops students' awareness of traditional and contemporary techniques used as the basis for fine and applied art. Devoted to materials and their methods of application, with most materials introduced via their traditional antecedents (for example, hide glue before modern epoxies). May be team taught. Lecture one hour; laboratory four hours. Fee course.
Note: Sophomore status and above recommended.

Fee course.

ART 86. Clay Sculpture. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Includes work with the various forms of hand-built sculpture in both low- and high-fire clay. Glazes are used sparingly to stress forms and their relationships. Fee course.
Fee course.

ART 88. Beginning Sculpture. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Introduction to traditional and non-traditional processes of sculpture and three-dimensional forms in space. Students can expect to use the following materials: cardboard, clay, metals, plaster, plastics, wire and wood to explore the making of three-dimensional imagery. Investigations will include the formulation of ideas relative to sculptural problem solving while discovering historical and contemporary examples of sculpture. Fee course.
Fee course.

ART 97. Beginning Electronic Art. 3 Units
Term Typically Offered: Fall, Spring

Explores the creative potential of imaging software used by visual artists. Familiarity with software, hardware and output devices will be established. The creation of digital art will be considered within the framework of current ideas in art and culture. No previous computer experience is necessary. Fee course.
Fee course.

ART 100. Origins of American Indian Art. 3 Units
Term Typically Offered: Fall only

Survey of 19th and 20th century American Indian art. Emphasis is on the student's involvement with Indian art and includes discussion of Indian philosophy and art techniques.

ART 101. Photography, Inception to Mid-Century. 3 Units
Term Typically Offered: Fall only

Introduces students to the history of photography, from inception to Mid-20th Century. Practices of photographers and artists, working with photographic technologies, will be discussed. The course examines photographic vision and the impact of the medium through lectures and readings by art historians and photographers.
Cross-listed: PHOT 101.

ART 102. Themes in World Art and Visual Culture. 3 Units
Prerequisite(s): GWAR certification before Fall 2009; or WPJ score of 80 or above; or 3-unit placement in ENGL 109M/W; or 4-unit placement in ENGL 109M/W + co-enrollment in ENGL 109X; or WPJ score 70/71 + co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Arts (Area C1)
Term Typically Offered: Fall, Spring

A thematic exploration of world art and visual culture throughout human history. Throughout this course, students will be able to draw connections between works of art created in various time periods and from a diverse variety of cultural contexts.

ART 103. Art of the Ancient Mediterranean. 3 Units
Prerequisite(s): ART 1A
Term Typically Offered: Fall only

Architecture, crafts, and sculpture in the ancient Mediterranean world from ca. 700 BCE to ca. 500 CE.

ART 105. Medieval Art. 3 Units
Prerequisite(s): ART 1A or equivalent.
Term Typically Offered: Spring only

Architecture, crafts, painting, and sculpture of medieval Western Europe.

ART 106. Renaissance Art. 3 Units
Prerequisite(s): ART 1A or ART 1B, or equivalent.
Term Typically Offered: Fall only – even years

Architecture, painting, graphic arts, sculpture, and crafts principally of the 15th and 16th centuries. Emphasis is on the art of Europe in the historical context of an emerging global consciousness.

ART 107. Baroque and Rococo Art. 3 Units
Prerequisite(s): ART 1B or equivalent.
Term Typically Offered: Spring only – odd years

European architecture, painting, and sculpture of the 17th and 18th centuries.

ART 108. 19th Century Art. 3 Units
Prerequisite(s): ART 1C or equivalent.
Term Typically Offered: Fall, Spring

European architecture, painting, and sculpture of the 19th century.

ART 109. Modern Art. 3 Units
Prerequisite(s): Upper-division standing and ART 1C or equivalent with instructor approval.
Term Typically Offered: Fall only

Presented as the cultural episode that began with the emergence of the avant-garde in mid-nineteenth century Paris and ended in the middle of the twentieth century with WW II and the beginning of the postmodern era: from Realism, the birth of photography, and Impressionism through the high modernist movements associated with the international School of Paris, including Fauvism, Cubism, Constructivism, Dada, and Surrealism. It concludes with post-WW II expressions, including Abstract Expressionism.

ART 110. US and Caribbean Art: Race and Representation. 3 Units
Prerequisite(s): Any lower-division GE course in art history (ART 1A, 1B, 1C, 2, 3A, 3B, 4, 5, or 7).
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Spring only

Provides an overview of U.S. and Caribbean art from the colonial period to the present, with an emphasis on the role of race in constructing individual, community, and national visual identities. Considers artworks by African-American, Asian-American, Indigenous, Latinx, and White artists, underscoring the dynamic interactions between race, class, gender, and sexuality in the visual arts. Field trip.
Field trip(s) may be required.

ART 111. Latin American and Latino Art History. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only

Provides an overview of Latin American and Latino art from the independence movements of the 1820s to the present. After an introductory survey of pre-Columbian and Spanish colonial art, the art of Mexico, Central and South America, the Caribbean and the U.S. is studied within the contexts of contemporaneous cultural, intellectual, political and social history. The diverse visual cultures of Latin American and Latino art are thematically unified by an examination of common concerns and motivations.

ART 112. Contemporary Art. 3 Units
Prerequisite(s): ART 1C or ART 109 or instructor permission.
Term Typically Offered: Spring only

Beginning with international Pop art and Minimalism in the 1960s, surveys the history of contemporary art from the end of avant-garde modernism to the postmodernism and globalism of today. Lectures, discussions, readings and assignments offer insights into the contexts, attitudes, and ideas behind current art and visual culture.
Note: Taught in conjunction with ART 212.

ART 113B. Asian Art and Mythology. 3 Units
Prerequisite(s): ART 3A or equivalent or instructor permission.
Term Typically Offered: Spring only – odd years

Survey and investigation of selected myths from Asian cultures and traditions.

ART 114. Topics in Early Modern Art. 3 Units
Prerequisite(s): ART 1A or ART 1B; an upper division art history course in a related subject area; upper division or post-baccalaureate status; and GWAR certification before Fall 2009; or WPJ score of 80 or above; or 3-unit placement in ENGL 109M/W; or 4-unit placement in ENGL 109M/W + co-enrollment in ENGL 109X; or WPJ score 70/71 + co-enrollment in ENGL 109X.
Term Typically Offered: Fall only – even years

Seminar on topics in early modern art history.
Note: Course may be taken twice for credit, if the topic is not the same.

ART 115. Topics in Asian Art. 3 Units
Prerequisite(s): Upper division or graduate status; completion of ART 3A (or equivalent); and an upper division Asian art history course such as ART 117A, ART 117B, ART 113B, or or instructor permission; GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109M/W.
Term Typically Offered: Fall only

Seminar on topics in Asian art.

ART 116. Topics in Modern and Contemporary Art. 3 Units
Prerequisite(s): Upper division or graduate status; completion of ART 1C (or equivalent); and an upper division art history course in a related subject area (or instructor permission); GWAR certification before Fall 09, WPJ score of 70+, or at least a 'C-' in ENGL 109 M/W.
Term Typically Offered: Fall only

Seminar on topics in modern and contemporary art history.

ART 117A. Art of India and Southeast Asia. 3 Units
Prerequisite(s): ART 3A or equivalent, or instructor permission.
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Provides a broad overview of the architectural remains and visual arts of India and Southeast Asia from prehistory to the present. Consideration will be given to the art styles, iconography, history, geography, ethnic populations, languages, and religions (i.e., Buddhism, Hinduism, Jainism, and Islam) of each region.

ART 117B. Art of China and Japan. 3 Units
Prerequisite(s): ART 3A or equivalent, or instructor permission.
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

Provides a broad overview of the architectural remains and visual arts of China and Japan from prehistory to the present. Consideration will be given to the art styles, iconography, history, geography, ethnic populations, languages, and religions (i.e., Buddhism, Taoism, and Shintoism) of each region.

ART 117C. Art of Korea. 3 Units
Term Typically Offered: Spring only – even years

Introduces students to the art and architecture of Korea from the pre-historic through contemporary periods. The styles, subjects, and significance of the art of Korea will be presented in a broad context including the history, geography, ethnic populations, languages, and religions of Korea (i.e., Buddhism, Daoism, Confucianism, and Christianity).

ART 118A. Modern Architecture. 3 Units
Prerequisite(s): ART 1C (or equivalent), or instructor permission.
Term Typically Offered: Not offered

A survey of modern architecture which covers the architectural theories and principles underlying certain significant structures. Special consideration is given to an analysis of the works of 20th century pioneers and their followers, such as Wright, Gropius, Le Corbusier, Van der Rohe, Aalto, and Johnson, among others, and to certain movements, such as the International Style, Brutalism, and Formalism.

ART 118B. California Architecture and Urban History. 3 Units
Term Typically Offered: Fall, Spring

Survey of the history of California architecture and its impact on the urban environment from Native Americans to the 20th century. Particular attention will be given to architecture as a symbol or statement of social, economic, and political empowerment.
Cross listed as HIST 184; only one may be counted for credit.

ART 118C. Public Art in the Americas. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only – odd years

Explores the major issues in the history of public art in the Americas, including monuments, memorials, murals, graffiti, and new media art. Particular attention will be given to public art in Sacramento. Field Trip. Field trip(s) may be required.

ART 119. Directed Research in Art History. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 120. Advanced Drawing. 3 Units
Prerequisite(s): ART 20B or equivalent.
Term Typically Offered: Fall, Spring

Continuing investigation of drawing. Emphasis is on the development of individual style.
Note: May be taken twice for credit.

ART 121. BFA Junior Studio. 3 Units
Term Typically Offered: Fall, Spring

Junior-level studio art course designed to prepare students for the senior year of the BFA degree. Course builds dialog among an interdisciplinary cohort of BFA students while engaging them with contemporary professional practices in the arts. Emphasis placed on students' ability to communicate about their work through critiques with faculty, peers, and visiting artists, preparation of professional documents and presentations. Fee course. Pre-requisite: Completion of a minimum of 3 units upper division studio coursework, second semester Junior standing with 75 units minimum.
Fee course.

ART 122A. Intermediate Painting. 3 Units
Prerequisite(s): ART 22 or equivalent.
Term Typically Offered: Fall, Spring

Continuing investigation of the technical and conceptual issues of painting.
Note: May be taken twice for credit.

ART 122B. Advanced Painting. 3 Units
Prerequisite(s): ART 122A, or ART 124A, or ART 125A, or ART 126, or instructor permission.
Term Typically Offered: Fall, Spring

Continuing investigation of the technical and conceptual issues of painting, with an emphasis on intensive individual exploration.
Note: May be repeated four times for credit.

ART 123. Figure Drawing. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall, Spring

Concentrates on the development of drawing and visual skills with emphasis on the human figure. Strong emphasis is placed on anatomical knowledge of the body and its expression through drawing techniques. The effects of volume and movement in space as well as compositional possibilities with the figure are explored. Slides are used to inform students of the drawing techniques achieved in historic and contemporary images. Fee course.
Note: May be taken for credit three times.

Fee course.

ART 124A. Intermediate Watercolor. 3 Units
Prerequisite(s): ART 24 or equivalent.
Term Typically Offered: Spring only – odd years

Continuing investigation of the technical and conceptual issues of painting, using transparent water media.
Note: May be taken twice for credit.

ART 124B. Advanced Watercolor. 3 Units
Prerequisite(s): ART 124A or equivalent.
Term Typically Offered: Fall, Spring

Continuing investigation of the techniques and conceptual issues of painting using transparent water media, with emphasis on intensive individual exploration.
Note: May be taken four times for credit.

ART 125A. Life Painting. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall only

Painting from professional models.
Note: May be taken for credit twice. Fee course.

Fee course.

ART 125B. Life Studio. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall, Spring

Drawing and painting from professional models. Fee course.
Note: May be taken twice for credit.

Fee course.

ART 126. Painting and Drawing in the Field. 3 Units
Prerequisite(s): ART 22 or ART 24, or equivalent.
Term Typically Offered: Fall, Spring

Further development of painting and drawing skills with emphasis on direct observation and use of color to make form. Class will meet at specific landscape sites to work, with primary focus on painting. In addition, work will be developed in the classroom based on prior field study. Critiques will examine how one situation is variously interpreted.

ART 127. Collage and Assemblage. 3 Units
Prerequisite(s): ART 20A, ART 22 and either ART 70 or ART 88 (or equivalent), or instructor permission.
Term Typically Offered: Spring only

Use of found and readily available materials to make 2-dimensional collage and 3-dimensional assemblage. Most projects are conceptual, a few purely visual, and take from one to three class periods, including critique, and class discussions.
Note: May be taken twice for credit. Fee Course

Fee course.

ART 128. Art and the Artist in the Marketplace. 3 Units
Term Typically Offered: Spring only

Study of the thought processes and preparations for presenting one's artwork in the marketplace. An overview of what it takes to begin showing and selling artworks, including the skills and procedures of presenting artwork to galleries. A study of contracts, loan agreements, invoicing, commissions, model releases, taxes, pricing of work, resumes, slide preparation/presentation, publicity skills, and record keeping. Lecture, field trips to galleries and museums.
Field trip(s) may be required.

ART 129. Painting/Drawing Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 130. Theories in Art Education. 3 Units
Prerequisite(s): Upper division or graduate status; declared major in Art.
Term Typically Offered: Spring only

Overview of national and international theories in the fields of visual art and education through historical and contemporary literature with particular attention to strategies for engaging student populations in the topics.

ART 133. Art Education for Children. 3 Units
Prerequisite(s): Upper division status; declared major or minor in Art, or a declared major in Child Development, or Liberal Studies, or Blended Liberal Studies
Term Typically Offered: Fall, Spring, Summer

Intended for students who are preparing to become elementary school teachers in California, providing meaningful, thematic instruction suitable for grades 1-6. Students will explore several 21st century education approaches applicable to both elementary generalists and visual art specialists, including meaning making, visual culture, holistic integration, learner-directed, and standards-based. Students will explore and evaluate the Common Core State Standards and the California Visual and Performing Arts Standards.
Note: Fee course.

Fee course.

ART 134. Interdisciplinary Art. 3 Units
Prerequisite(s): ART 20A and upper division status.
Term Typically Offered: Fall, Spring

Students learn how to make connections and relationships between visual art and curriculum subjects such as ecology, history, anthropology, language arts, theatre and music. Through studio activities and interdisciplinary themes, students will learn how to integrate the California Visual Art Content Standards.

ART 135. Overview of Secondary Art Education. 3 Units
Prerequisite(s): ART 133 or instructor permission.
Term Typically Offered: Fall, Spring

Exploration of visual art and education theories, studio practices, curriculum development, and teaching strategies for art at the secondary school level. Students will explore and evaluate the National Core Arts Standards.

ART 137. Art for Exceptional Children. 3 Units
Term Typically Offered: Fall, Spring

Art is studied as a means of meeting the learning needs of atypical children, whose ages range from infancy through adolescence, and whose atypical characteristics consist of mental deficiencies, physical disabilities, emotional problems, or gifted abilities. Lectures, readings, and class discussions focus on the characteristics, and art curriculum goals of exceptional children, while studio activities provide experiences with art media. Lecture, laboratory. Fee course.
Fee course.

ART 139. Directed Research in Art Education. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open only to upper division art majors/minors who have successfully completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 140. Intermediate Printmaking. 3 Units
Prerequisite(s): ART 40
Term Typically Offered: Fall, Spring

Intermediate-level study of printmaking processes, their history, and their contemporary applications. This course focuses on a single set of printmaking media each semester: Intaglio, Relief/Monotype, Lithography, or Screen Printing. Students will engage with the relationship between research, content, and process to develop a body of work through assigned and self-designed projects.
Note: Fee course. This course will carry a fee of $75 to cover ink, plates, and other supplies. This course may be repeated for up to 6 units of credit.

Fee course.

ART 141. Advanced Silkscreen. 3 Units
Prerequisite(s): ART 40E or equivalent.
Term Typically Offered: Fall, Spring

Advanced work in silkscreen including photo-silkscreen. Emphasis is on exploration of color and imagery.
Note: May be taken for credit four times.

ART 142. 3D Computer Modeling. 3 Units
Prerequisite(s): CSC 10 or ART 97 or equivalent.
Term Typically Offered: Fall, Spring

Techniques and processes to create 3D computer models and environments. Exercises, assignments and projects designed to build skill levels with 3D computer modeling tools. Demonstrations and workshops in the use of 3D computer modeling software. Critiques, discussion and presentations to develop students' conceptual grasp of 3D computer modeling and virtual reality environments. Example applications in art/new media and computer gaming.
Note: May be taken twice for credit. Cross-listed as CSC 126.

ART 143. 3D Computer Animation. 3 Units
Prerequisite(s): ART 142 or CSC 126.
Term Typically Offered: Fall, Spring

Creative skills and techniques for animating 3D computer-modeled objects/environments. Topics include animation techniques; keyframing and interpolation; deformation and morphing; path control; skeletal animation; model rigging and skinning; forward and inverse kinematics, constraints and IK solvers; particle systems; fluid, cloth, hair, and fur simulation; shape keys; and soft body animation. Emphasis on both skill development and creative application of modeling and animation techniques. Includes demos, in class and homework excercises, and self directed projects.
Cross-listed: CSC 127.

ART 144. Digital Printmaking. 3 Units
Prerequisite(s): ART 97 or equivalent.
Term Typically Offered: Fall, Spring

Through traditional and digital print media, the course explores the convergence of digital imaging (vector and raster processes) and printmaking techniques (such as monoprint, lithography, etching and silkscreen). Vector graphics use geometry: points, lines and fills, creating crisp re-scaleable images. Raster graphics use a rectangular grid of pixels to create continuous-tone effects. By exploring these approaches and their transference to printmaking processes, students gain deeper understanding of print technology and a more tactile awareness of image making. Fee course.
Note: May be taken twice for credit.

Fee course.

ART 145. Advanced Printmaking Studio. 3 Units
Term Typically Offered: Fall, Spring

Advanced exploration of printmaking media (etching, lithography, relief, and monoprinting techniques) within a historical framework. Students investigate the printmaking techniques of historically significant figures and apply them to their own imagery.
Note: Open to students with experience in upper division painting or photography, or lower division printmaking. May be taken twice for credit. Fee course.

Fee course.

ART 146. Creative Coding. 3 Units
Prerequisite(s): ART 97 Fee course
Term Typically Offered: Fall only

Introduces techniques and artistic perspectives on interactivity and computationally-generated visual composition for New Media Artists. Nonlinear, dynamic, and generative approaches to composition, animation, video, and data processing are covered.
Note: This course is recommended for students planning to take ART 143 and ART 198.

ART 147. Video Art. 3 Units
Prerequisite(s): ART 97 or COMS 27A/FILM 27A and COMS 27B/FILM 27B.
Term Typically Offered: Fall, Spring

The creation and analysis of video artwork; including techniques of video production, post-production manipulation and critique, within the context of art and communication. The techniques and theory of producing and editing video will serve as a foundation for the pursuit of individual, creative projects.
Cross-listed as COMS 157; only one may be counted for credit.

ART 148. Barrio Art for Ethnic Groups. 3 Units
Term Typically Offered: Fall, Spring

Provides a cultural situation for students who expect to work with the Mexican American community. Involves personal contact with persons in that community. Uses poetry, music, slides, and film to understand art as a non-verbal language.
Note: May be taken twice for credit.

ART 149. Graphics/Printmaking Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition.
Term Typically Offered: Fall, Spring

Open only to upper division art majors/minors who have completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 150. Advanced Ceramics. 3 Units
Prerequisite(s): ART 50 or equivalent.
Term Typically Offered: Fall, Spring

Advanced study of ceramic techniques leading toward the development of an individual creative expression. Fee course.
Note: May be taken for credit four times.

Fee course.

ART 153. Hand-Built Ceramic Techniques. 3 Units
Prerequisite(s): ART 53 or equivalent.
Term Typically Offered: Fall, Spring

Specialization in hand-built clay forms. Methods of working include coil, slab, pinch, and combinations of techniques which might include some wheel-thrown parts, decoration, and glazing of forms. Fee course.
Note: May be taken for credit four times.

Fee course.

ART 159. Ceramics Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 161. Photography in the Field. 3 Units
Prerequisite(s): PHOT 141 or instructor permission.
Term Typically Offered: Fall, Spring

The class visits specific sites followed by a group critique of the resulting photographic work. The course objective is to examine how one situation can be interpreted by many varied sensibilities, broadening the artist's visual vocabulary. Students are required to create visually unified portfolio that demonstrates a sense of place.
Cross-listed: PHOT 161.

ART 162. Alternative Photographic Processes. 3 Units
Prerequisite(s): PHOT 141 or instructor permission.
Term Typically Offered: Fall, Spring

Studio course exploring alternative photographic processes that may include: printing-out paper, new cyanotype, argyrotype, and platinum-palladium. Slide discussions, individual and class critiques.
Cross-listed: PHOT 162.

ART 163. Pinhole Photography. 3 Units
Prerequisite(s): PHOT 40 or equivalent.
Term Typically Offered: Fall, Spring

Intermediate course investigating the theory, history, and practice of pinhole photography. Use of student-made pinhole cameras of varying focal lengths using black and white and color materials. Emphasis on creative approach in both camera making and image formation, supported by intermediate-level photographic technique. Individual final portfolios and group exhibition of cameras and prints at conclusion of course.
Cross-listed: PHOT 163.

ART 169. Photography Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed successfully 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 174. Intermediate Jewelry. 3 Units
Prerequisite(s): ART 74 or equivalent, or instructor permission.
Term Typically Offered: Fall, Spring

Continued study of the techniques and tools used in metal fabrication, such as raising, tool making, chasing and repousse, and scoring/bending process. Emphasis is on development and individual style. Fee course.
Note: May be taken twice for credit.

Fee course.

ART 175. Intermediate Metalsmithing. 3 Units
Prerequisite(s): Art 75.
Term Typically Offered: Fall, Spring

Continued exploration of techniques, tools, and methods used in fabrication of ferrous and non-ferrous metal such as cold fastening, repousage, forging, and finishing processes. Emphasis is on composition and imagery. Fee course.
Fee course.

ART 176. Advanced Jewelry. 3 Units
Prerequisite(s): ART 174.
Term Typically Offered: Fall, Spring

Focus on the development of personal style in metal fabrication and casting techniques. Students learn to build mechanical devices such as clasp systems that enhance the overall appearance of their work. Research involving historical periods in metal work.

ART 178A. Public Art Processes. 3 Units
Term Typically Offered: Fall only

Students will engage in the process of creating public art proposals. Along with community engagement the conception and design of a project will include historical, geographic and sociological research. Students will create professional presentations of their proposed project that consider all factors related to creating work in a public setting. Studio course engaging in model making, ideation, comprehensive investigation, collaboration, presentation and discussion. Field Trip(s) may be required. Fee course.
Note: may be taken twice for credit.

Fee course.
Field trip(s) may be required.

ART 178B. Public Art Studio. 3 Units
Term Typically Offered: Spring only

Following up on project proposals designed the previous term in ART 178A, students will engage in the process of creating public art works. The course will focus on the primary components of the project: budget, method or form, materials, dimension, transportation, engineering, permitting, installation and publicity. Students do not need to have taken 178A in order to benefit from and enroll in 178B. Field Trip(s) may be required. Fee course.
Note: May be taken twice for credit.

Fee course.
Field trip(s) may be required.

ART 179. Small Metals Studio. 3 Units
Prerequisite(s): ART 176.
Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed 9 units in a specialized area.
Note: May be repeated as often as approved by advisor and Department chair.

ART 180. Figure Sculpture. 3 Units
Prerequisite(s): ART 20A or equivalent.
Term Typically Offered: Fall only

Work from live models in clay and plaster. Construction of armatures and waste mold demonstrated. Fee course.
Note: May be taken for credit four times.

Fee course.

ART 182. Intermediate Sculpture. 3 Units
Prerequisite(s): ART 70 or ART 88 or equivalent.
Term Typically Offered: Fall, Spring

Intermediate explorations with traditional and non-traditional processes of sculpture, three-dimensional form and spatial relationships. Students will expect to explore concept based learning through visual problem solving while accumulating in depth techniques and skills in a variety of sculpture materials. Includes study of historical and contemporary examples of sculpture and other relevant forms of art.
Note: May be taken twice for credit. Fee Course

Fee course.

ART 183. Advanced Sculpture. 3 Units
Prerequisite(s): ART 180 or 182 or instructor permission.
Term Typically Offered: Fall, Spring

Advanced explorations and study in sculpture, three-dimensional media and imagery and conceptual based art. Students can explore sculpture, advanced three-dimensional design, mixed media, installation art, site specificity, performance art, public art or other. Study will be both assignment based or self-directed. Fee course.
Note: May be taken twice for credit.

Fee course.

ART 187. Installation and Performance Art. 3 Units
Prerequisite(s): ART 20A and either ART 70 or ART 88 or equivalent.
Term Typically Offered: Spring only – even years

Explores the practice, theory and history of making installation and performance art. Students will study contemporary artists of this genre while designing, modeling and creating installation projects. Performances are not mandatory. Students will exhibit their works in traditional campus galleries alternative spaces. Emphasizes individual investigation and discovery while remaining open to collaborative projects that may cross disciplines. Fee course.
Note: may be taken twice for credit.

Fee course.

ART 189. Sculpture Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to upper division art majors or minors only who have completed 9 units in a specialized area. Fee course.
Note: May be repeated as often as approved by advisor and Department chair.

Fee course.

ART 191. Film as an Art Form. 3 Units
Term Typically Offered: Fall, Spring

Wide range of theory and criticism of film, photography, and painting in the 20th century is presented from which the student may cultivate a coherent critical awareness. The development of realism in Western art, the photographic image, narrative in film, montage, and the development of cinematography will be included with special attention given to the films of D.W. Griffith, Sergei Eisenstein, Jean Renoir, Alfred Hitchcock, and Orsen Welles.

ART 192A. Senior Seminar in Studio Art. 3 Units
Prerequisite(s): Senior status (90 overall units), completion of 30 units of art studio courses, and (GWAR certification before Fall 09, or WPJ score of 70+ or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Culminating studio art course designed to deepen experiences in diverse visual arts. Emphasis placed on independent studio practice with additional development in verbal and written skills in a variety of art disciplines. Participation in BA candidate exhibition required in the second enrolled semester for completion of the course.
Note: Must be taken twice. Cannot be taken twice in the same semester.

ART 192B. Senior Seminar in Art History. 3 Units
Prerequisite(s): Senior status, completion of all lower-division major requirements, HIST 100, and GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Spring only

Focuses on the research, writing, and oral presentation of a 25-35 page thesis in the student's area of interest. Seminar readings, discussions, and weekly workshops support the thesis project and develop basic career skills. Explores how to employ traditional and new research technologies and develops writing skills. Career topics include how to locate appropriate jobs, professional schools, and graduate programs; how to write professional resumes, correspondence, including graduate school and grant applications.

ART 192C. Senior Seminar in Art Education. 3 Units
Prerequisite(s): Senior status, and ART 130, ART 133, ART 134, and ART 135.
Term Typically Offered: Fall only

Relates current art education theories to teaching practices in elementary and secondary classrooms, and museum/gallery settings. Teaching practices in a classroom or gallery/museum setting will connect to curriculum materials developed.

ART 193. Art Gallery Management. 3 Units
Term Typically Offered: Fall only

Designed for direct participation of students in the management of an art gallery, including installation, publicity, and budgeting.
Note: May be taken twice for credit.

ART 193B. Introduction to Curatorial Studies. 3 Units
Term Typically Offered: Spring only

This course provides the foundation needed for professionally managing and displaying objects held in art collections. Through readings, small group discussions, field trips, guest lectures, and the directed experience of creating an exhibition of artworks from the Sacramento State Art Department collection, students learn the basics of curatorial studies and art collection management. Field trip.
Field trip(s) may be required.

ART 194. BFA Senior Project. 3 Units
Prerequisite(s): Second semester Senior standing in BFA program with a minimum 63 units in the major.
Term Typically Offered: Fall, Spring

Under the mentorship of a faculty advisor, students develop a body of work to be exhibited in the BFA exhibition. Emphasis placed on engagement with research, content, and the process to produce professional quality work in preparation for graduate study and/or careers in the arts.

ART 195. Fieldwork. 1 - 3 Units
Term Typically Offered: Fall, Spring

Directed observation and work experience with public agencies. Field work is offered for the purpose of giving students orientation in occupational specialties. Supervision is provided by both the instructional staff of the University and the cooperating agencies. Each student is required to maintain a record of activities and assignments, and to prepare periodic reports. The student must make arrangements with a faculty member for a work program prior to admittance to the course.
Credit/No Credit

ART 196. Experimental Offerings in Art. 1 Unit
Term Typically Offered: Fall, Spring

Undergraduate seminar in art, to be scheduled as needed.

ART 197. Intermediate Electronic Art. 3 Units
Prerequisite(s): ART 97, or equivalent experience, such as PHOT 11, Introduction to Digital Imaging.
Term Typically Offered: Fall, Spring

Explores the creative potential of digital imaging and multimedia art making techniques. Teaching methods will include hands on demonstrations, lab workshops, creative projects, reading assignments, seminars, discussion and critiques. The development of technical fluency will be stressed, and the creative potential of digital media within the framework of contemporary art, design and culture will be emphasized. Fee course.
Note: Proficiency in MAC-OS recommended. May be taken for credit three times.

Fee course.

ART 198. Advanced Electronic Art. 3 Units
Prerequisite(s): ART 197, or equivalent experience, evidenced in portfolio.
Term Typically Offered: Fall only

Utilizes the creative potential of electronic media to create art projects, working within the conceptual framework of developments in contemporary culture using a range of available software programs. An experimental and exploratory approach to the digital medium in concept, process and execution of work is encouraged. Fee course.
Note: Proficiency in MAC-OS recommended. May be taken for credit three times.

Fee course.

ART 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who are competent to carry on individual work.
Note: Departmental petition required.

Credit/No Credit

ART 206. Art Theory and Criticism. 3 Units
Term Typically Offered: Fall only

Seminar discussions of essential readings in Western aesthetic philosophy and contemporary art theory and criticism. Stress is placed on the conceptualization of the student's own graduate production.
Note: Required for students in art graduate program; Graduate Writing Intensive (GWI) course.

ART 207. Graduate Studio and Critique. 3 Units
Term Typically Offered: Fall, Spring

Graduate Studio and Critique focuses on the development of students¿ individual studio practice, while bringing that practice into dialog with others. Class time is divided between group critiques and individual studio work time.

ART 208. Intensive Graduate Studio and Critique. 6 Units
Prerequisite(s): Graduate Art Student Status or Instructor permission
Term Typically Offered: Fall, Spring

Intensive Graduate Studio and Critique focuses on the development of students¿ individual studio practice, while bringing that practice into dialog with others. Class time is divided between group critiques and individual studio work time. In ART 208, students increase the depth and focus of their work, as well as their engagement in critiques.
Note: May be taken twice for credit

ART 212. Contemporary Art. 3 Units
Prerequisite(s): Modern Art History: Art 1B or ART 109 or equivalent or instructor permission.
Term Typically Offered: Spring only

Beginning with international Pop art and Minimalism in the 1960s, surveys the history of contemporary art from the end of avant-garde modernism to the postmodernism and globalism of today. Lectures, discussions, readings and assignments, offer insights into the contexts, attitudes and ideas behind current art and visual culture.
Note: Students who earned a grade of B or higher in ART 112 can fulfill the requirements for ART 212 by taking a one-unit supplemental ART 299 to satisfy graduate level criteria.

ART 219. Directed Research in Art History. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair.

ART 220. Advanced Problems in Painting and Drawing. 3 Units
Prerequisite(s): ART 122B, graduate art student status, or instructor permission.
Term Typically Offered: Fall, Spring

Special problems in painting and drawing.
Note: May be taken twice for credit.

ART 222. Studio Critique Seminar. 3 Units
Term Typically Offered: Fall, Spring

Critique seminar taught by one or more instructors representing different creative experiences.
Note: Required for students in the art studio graduate program, every semester until the final review has been passed. Only 6 units may be applied toward the degree program. Open only to classified graduate students.

ART 229. Painting/Drawing Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 239. Directed Research in Art Education. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 249. Graphics/Printmaking Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 259. Ceramics Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 269. Photography Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 279. Crafts/Art Metal Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified art graduate students only.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

ART 283. Graduate Sculpture. 3 Units
Prerequisite(s): Graduate Art student status, or instructor permission.
Term Typically Offered: Fall, Spring

Special problems in sculpture, mixed media, installation art, site specific art, performance art, public art or other. Students will engage in self-directed projects while participating in sculpture studio forum and critiques.
Note: may be taken twice for credit

ART 289. Sculpture Studio. 3 Units
Prerequisite(s): Instructor permission and Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Open to classified and unclassified graduate students only. Fee course.
Note: May be repeated as often as approved by advisor and Department chair; only 6 units may be applied toward the degree program.

Fee course.

ART 297. New Media 1. 3 Units
Term Typically Offered: Spring only

Students will work on self-directed new media projects with the supervision of the instructor. The work will focus on projects that are either entirely based on digital image and/or animation, or on works that also utilize other media or processes combined with digital image or animation, such as intermedia, mixed media and installation work. This course also includes reading assignments, critique and discussion.
Note: May be repeated twice for credit.

ART 298. New Media 2. 3 Units
Term Typically Offered: Fall only

Students will work on self-directed video and new media with the supervision of the instructor. The work will focus on projects that are either entirely based in new media and video, or on works that also utilize other media or processes combined with video and/or interactive processes, such as intermedia, mixed media and installation work. The course also includes reading assignments, critique and discussion.
Note: May be taken twice for credit.

ART 299. Special Problems. 1 - 3 Units
Prerequisite(s): Open only to graduate art students competent to carry on individual work. Admission requires approval of the faculty member who will direct the work and of the Department chair via signed petition form.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Only 6 units may be applied toward the degree program.

Credit/No Credit

ART 305. Art in the Public School. 3 Units
Prerequisite(s): Enrollment in the art teaching credential program.
Term Typically Offered: Fall, Spring

Art teaching methods and programs for public school grades K-12. Must be taken during Phase I or II of student teaching.

ART 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy and chair permission of student's project committee.
Term Typically Offered: Fall, Spring

Culminating exhibition of student work.

Arts and Letters (ALS)

ALS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Exploring majors in Arts and Letters and the careers they can lead to for freshmen considering a major in one of these disciplines. Provides students with the opportunity to interact with fellow students and the seminar leader and to build a community of academic and personal support.

ALS 39A. Special Problems for EOP Students. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individually directed projects or tutorial instruction in a skill development area or in any subject matter to develop a specific academic skill (i.e., essay writing).
Credit/No Credit

ALS 52A. Acad Strategies-ALS: History 6. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 52B. Academic Strategies-ALS: History 17A. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 52C. Academic Strategies-ALS: History 17B. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 52D. Academic Strategies-ALS: History 50. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 52E. Academic Strategies-ALS: History 51. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 52F. Academic Strategies-ALS: Philosophy 4. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 52G. Academic Strategies - ALS: English 40A. 1 Unit
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 52H. Academic Strategies - ALS: History 7. 1 Unit
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 52J. Academic Strategies - ALS: English 40B. 1 Unit
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 52K. Academic Strategies - ALS: English 50A. 1 Unit
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 52L. Academic Strategies - ALS: English 50B. 1 Unit
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 52M. Academic Strategies - ALS: COMS 4. 1 Unit
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 53A. Academic Strategies-CBA: Accountancy 1. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 53B. Academic Strategies-CBA: Accountancy 2. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 53C. Academic Strategies-CBA: Decision Science 101. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 54A. Academic Strategies-ECS: Computer Science 15. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 54B. Academic Strategies-ECS: Computer Science 20. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 55A. Academic Strategies-HHS: Criminal Justice 1. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is currently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56A. Academic Strategies-NSM: ASTR 4B. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is currently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56B. Academic Strategies-NSM: Biology 22. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56C. Academic Strategies-NSM: Chemistry 4. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56D. Academic Strategies-NSM: Chemistry 1A. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56E. Academic Strategies-NSM: Chemistry 1B. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56F. Academic Strategies-NSM: Chemistry 24. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56G. Academic Strategies-NSM: Chemistry 124. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56H. Academic Strategies-NSM: Chemistry 161. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56J. Academic Strategies-NSM: Environmental Science 10. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56K. Academic Strategies-NSM: Geology 7. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56L. Academic Strategies-NSM: Geology 8. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56M. Academic Strategies-NSM: Physics 5A. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56N. Academic Strategies-NSM: Physics 5B. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56P. Academic Strategies-NSM: Biology 1. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56Q. Academic Strategies - NSM: Biology 10. 1 Unit
Corequisite(s): BIO 10
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56R. Academic Strategies - NSM: Biology 20. 1 Unit
Corequisite(s): BIO 20
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is currently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 56S. Academic Strategies - NSM: Geography 1. 1 Unit
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 57A. Academic Strategies-SSIS: Economics 1A. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 57B. Academic Strategies-SSIS: Economics 1B. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 57C. Academic Strategies-SSIS: Government 1. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 57D. Academic Strategies-SSIS: Psychology 2. 1 Unit
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 57E. Academic Strategies-SSIS: FACS 10. 1 Unit
Corequisite(s): FACS 10
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 57F. Academic Strategies-SSIS: PSYC 101. 1 Unit
Term Typically Offered: Fall, Spring

Study skills adjuncts/SI classes for selected General Education courses. Effective learning strategies for the academic course (PSYC 101) in which the student is concurrently enrolled.
Note: May be repeated for credit; Instructor approval required.

Credit/No Credit

ALS 57G. Academic Strategies-SSIS: Anthropology 2. 1 Unit
Corequisite(s): ANTH 2
Term Typically Offered: Fall, Spring

Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course which the student is concurrently enrolled.
Note: May be repeated for credit

Credit/No Credit

ALS 57H. Academic Strategies - SSIS: Economics 100A. 1 Unit
Study skills supplemental instruction for selected General Education courses. Effective learning strategies for the academic course in which the student is concurrently enrolled.
Note: May be repeated for credit.

Credit/No Credit

ALS 70A. Strategies of Learning for EOP Students. 1 Unit
Term Typically Offered: Fall, Spring

This course is designed to provide individual approaches to self knowledge, motivation, educational philosophy and skills necessary to give the student a firm foundation for a productive educational program during his/her college and post-college career. The basic intent is to help the student perceive his/her position in the educational process, understand the necessity for succeeding, and learn how to succeed in college.
Credit/No Credit

ALS 79A. Developing Student Leadership EOP. 1 - 3 Units
Term Typically Offered: Fall, Spring

The course is designed to provide students an opportunity to develop leadership skills that will serve them throughout their college career. They will become familiar with the opportunities for leadership and growth at Sacarmento State. Skills developed will include public speaking, team building, delegation, communication, and others.
Credit/No Credit

ALS 96. Academic Strategies: Experimental. 1 Unit
Term Typically Offered: Summer only

ALS 96 is a 1-unit, 1-week early start course for baccalaureate credit designed to prepare students for fall GE area A2. Working independently and collaboratively, students will use an inquiry-based approach to learning through research, reflection, and engagement with real world scenarios. Students will develop various academic literacies in order to understand the conventions of written communication required for success in a college setting.
Note: May be repeated for credit. Cross listed: MATH 96E.

Credit/No Credit

ALS 101. Texts Over Time. 3 Units
Term Typically Offered: Fall, Spring

Drawing on selected texts from across at least two historical periods or cultural settings, students will refine their skills of textual appreciation and analysis with an eye toward enhanced understanding of the texts in their historical and cultural contexts.

ALS 102. Individual, Community, and Citizenship. 3 Units
Term Typically Offered: Fall, Spring

This course examines the relationship between the individual and the community across at least two historical periods or cultural settings. Students will examine how perceptions of this relationship contribute to an understanding of belonging to or exclusion from political and social life.

ALS 103. Creativity, Meaning, and Criticism. 3 Units
Term Typically Offered: Fall, Spring

This course examines the theoretical and practical bases that sustain the creative process, especially as it is engaged in the production and interpretation of meaning in the arts and literatures, as well as the foundation for their criticism.

ALS 104. Happiness, Well-Being and the Good Life. 3 Units
Term Typically Offered: Fall, Spring

This course will examine the conditions and characteristics of living a good life, how happiness and well-being contribute to it, and its value as expressed in a range of human activities. Students will examine happiness, well-being and the good life in at least two historical periods or cultural settings.

ALS 151. The Studio: Explorations in Arts and Letters. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

This course provides students with an opportunity to become informed and engaged participants in the cultural, artistic and literary dimensions of their communities. Students will explore the ways our experience of and appreciation for cultural products is informed by exposure to theory and practice in each of the Arts and Letters disciplines.

ALS 195. Internship in Arts and Letters. 1 - 3 Units
Prerequisite(s): Faculty approval required; Upper division status; Overall Sacramento GPA 2.3
Term Typically Offered: Fall, Spring

Directed work experience in the internship program. Instructional staff and the cooperating agency provide supervision.
Credit/No Credit

ALS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed study.
Note: Petition and faculty approval required; may be repeated for credit.

Credit/No Credit

Asian Studies (ASIA)

ASIA 96. The Way of Chanoyu: An Interdisciplinary Approach to the Japanese Tea Gathering. 3 Units
Term Typically Offered: Fall, Spring

This course traces the development of a multifaceted cultural practice integrating architecture, garden design, art, painting, and calligraphy into a carefully constructed hospitality ritual. Students explore multiple aspects of Japanese Chado via hands-on learning including aesthetic, economic, scientific, socio-political and cultural dimensions associated with tea. The course is taught in the Nakatani Tea Room, including weekly classroom lectures and discussions, demonstrations, on-line learning modules, a group project, and typically, a day field trip to San Francisco. Field trip(s) may be required.

ASIA 110. Anthropology of Contemporary Asia. 3 Units
Prerequisite(s): ANTH 146 or instructor permission
This course examines contemporary Asia as an articulation of intersecting historical, cultural, political and economic processes. The course will focus on postcolonial developments and critically explore the manner in which process of globalization and neoliberal strategies embed themselves within, and the responses they elicit from societies across Asia.

ASIA 134. History of Korea: Antiquity to Present. 3 Units
Term Typically Offered: Fall only

This course traces the historical development of Korean culture from the period the Three Kingdoms to the present. In addition to the texts and records, other sources such as literature, religion, and art will be examined to gain an understanding of and appreciation for the longevity of Korea as a culture and a polity.

ASIA 135. Contemporary Korean Culture. 3 Units
Term Typically Offered: Spring only

This course provides a comprehensive understanding of Korean culture and society through the analysis of contemporary Korean popular media. By critically examining the particular cultural phenomenon of the Korean Wave, this course upholds various Korean popular media (film drama, documentaries, and music) as significant forms of visual culture, which reflect as well as shape the reality of people's everyday lives both within and outside Korea.

ASIA 136. Korean Development and Behavior. 3 Units
This course examines critical issues in Korean human development and behavior with particular attention given to current theoretical perspectives within a fast developing society. Topics include identity, cognitive development, mental health, tiger parenting, gender roles, socio-emotional development, body image, and transracial adoptions. This course integrates an interdisciplinary approach and includes indigenous discourse on Confucianism and Eastern and Western thought to understand the underlying processes of the Korean heritage person as an individual and as a member of a larger society.

ASIA 140. Modern East Asian Cinema. **3 Units**
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

Survey of the development of cinema in Asia, focusing primarily on cinematic masterpieces from China, Hong Kong, and Japan. Focuses on directors, actors, and studios that left a lasting mark on cinema history. Also focuses on how the Asian aesthetic sense differs from the Hollywood norm.
Cross-Listed: HIST 140; only one may be counted for credit.

ASIA 146. US-China Relations. **3 Units**
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

This course explores the historical foundation of US-China relations, tracing from 19th century encounters through world wars, ideological confrontation, rapprochement, and into the contemporary era. Focus on international and political dimension of diplomatic and strategic interests, also explores cultural and social connections through trade, investment, migration, and tourism.
Cross-listed: POLS 146.

ASIA 151. Genocide in Southeast Asia. **3 Units**
Term Typically Offered: Fall, Spring

Survey of human rights abuses and genocides that have occurred in post-colonial Southeast Asia. Focuses on mass killings in Indonesia and Cambodia and communal riots often targeting the ethnic Chinese community, religious minorities, or highland peoples like the Hmong. Topics include cultural genocide, ideological pressure, and ethnic intolerance. An interdisciplinary literature will interpret the causes and conditions while introducing students to the diverse societies and cultures of Southeast Asia.

ASIA 190. Travel Study in Asia. **1 - 6 Units**
Term Typically Offered: Fall, Spring, Summer

A faculty-led study abroad course to Asia. Students will learn about one or more Asian countries through living and traveling in the country(ies), classroom instruction, and field trips to various sites. Fee course.
Fee course.
Field trip(s) may be required.

ASIA 195. Internship: Asian Studies. **1 - 3 Units**
Term Typically Offered: Fall, Spring

Supervised work experience on topics related to the study of Asia's art, culture, economics, geography, environment, politics, and government and social issues.
Credit/No Credit

ASIA 198. Asia in the World Today. **3 Units**
Prerequisite(s): Instructor permission.
Term Typically Offered: Spring only

Senior seminar in recent scholarship and current issues concerning Asia in the world today. A capstone course for Asian Studies majors, as well as graduate students interested in Asia.

ASIA 199. Special Problems. **1 - 3 Units**
Term Typically Offered: Fall, Spring

Individual research projects, including directed readings, under the direction of an Asian Studies faculty person.
Credit/No Credit

Astronomy (ASTR)

ASTR 4A. Introduction to the Solar System. **3 Units**
Prerequisite(s): One year of high school geometry or instructor permission.
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Spring only

Description and explanations of astronomical phenomena and measurements related to the Solar System and exoplanets. Structure and evolution of planetary systems. Formation of solar systems and planets. Occasional observation periods.

ASTR 4B. Introduction to Stars, Galaxies, and Cosmology. **3 Units**
Prerequisite(s): One year high school geometry or instructor permission.
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Description and explanations of astronomical phenomena related to stars, galaxies, and cosmology. Structure and evolution of stellar and galactic systems. Occasional observation periods.

ASTR 4C. Introduction to Astrobiology. **3 Units**
Prerequisite(s): One year high school geometry or instructor permission.
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall only

Nature and history of scientific inquiry into life outside the Earth. Definitions of life. Habitability of planets and moons in our Solar System and of extrasolar planets. Likelihood of intelligent life outside Earth and rationale for the Search for Extra-Terrestrial Intelligence.

ASTR 6. Astronomical Observation Laboratory. **1 Unit**
Prerequisite(s): ASTR 4A, ASTR 4B, or ASTR 4C with C- or better; may be taken concurrently.
General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

Study and use of various telescopes; field observation of planets, stars, meteors, asteroids, the moon and sun; laboratory activities relevant to astronomy. Lab three hours.

ASTR 131. The Solar System and Space Exploration. 3 Units
Prerequisite(s): ASTR 4A or ASTR 4B or 4C or PHYS 11A or CHEM 1A and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W ; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Upper Division Further Studies in Area B5
Term Typically Offered: Fall only

Planets and satellites, including their composition, structure, and atmospheres, with emphasis on modern techniques and observations. Solar surface phenomena and their influence on planets through the solar wind. Comets, meteorites, and their implications for the origin and evolution of planets. Physical effects governing feasible forms of space exploration and colonization.
Note: This course is approved as a Writing Intensive course.

ASTR 132. Stars, Galaxies and Cosmology. 3 Units
Prerequisite(s): ASTR 4A or ASTR 4B or 4C or PHYS 11A or CHEM 1A and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Upper Division Further Studies in Area B5
Term Typically Offered: Spring only

Types and evolution of stars; structure and evolution of galaxies; overall structure of the universe; current developments in astronomy.
Note: This course is approved as a Writing Intensive course.

ASTR 150. Dark Matter and Dark Energy. 3 Units
Prerequisite(s): PHYS 106
Corequisite(s): PHYS 110
Term Typically Offered: Spring only – odd years

Introduction to historical, observational and theoretical principles of dark matter and dark energy in the Universe. Topics will include dark matter in galaxies (rotation curves, stellar motions), dark matter in clusters (virial theorem, x-ray observations), MACHOs and WIMPs as dark matter candidates, as well as the discovery of dark energy through supernovae observations, and additional probes of dark energy. Dark matter and dark energy will be discussed in the cosmological context of the Big Bang theory.

ASTR 199. Special Problems. 1 - 2 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students competent to assume individual work on approval of the instructor. Up to 2 units may be taken for a grade.

Credit/No Credit

Athletics (ATIC)

ATIC 61. Men's Cross Country. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins mid-August and the season ends in mid-November.
Credit/No Credit

ATIC 62. Men's Tennis. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins the first day of the fall semester and the spring schedule ends the last of May.
Credit/No Credit

ATIC 63. Men's Track and Field. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Indoor Track and Field practice begins in the fall. The competitive season is in the winter. Outdoor Track and Field practice begins the first day of spring semester and the season ends the last week of May.
Credit/No Credit

ATIC 64. Men's Baseball. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins in the fall with the competitive season starting February 1. The 56-game schedule is followed by the NCAA Championships for qualified teams in May.
Credit/No Credit

ATIC 65. Men's Basketball. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins mid-October. The season ends in late February and leads to NCAA Championships for qualified teams.
Credit/No Credit

ATIC 66. Men's Football. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Daily afternoon practice begins in late August. The 10-11 game schedule is followed by NCAA Championships for qualified teams in late November. There is also spring practice which follows NCAA regulations as to starting date.
Credit/No Credit

ATIC 67. Men's Golf. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins fall semester Monday through Friday starting at noon.
Credit/No Credit

ATIC 68. Men's Soccer. 2 Units
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Morning and afternoon practices begin in mid-August in accordance with NCAA regulations. Competitive season begins the first week of September and ends in mid-November. Daily practices during fall semester are from 3:00-6:00 p.m. Daily practices during the spring semester are also from 3:00-6:00 p.m. beginning the third week in February and ending the last week in April. You must see the head coach for permission to tryout.
Credit/No Credit

ATIC 80. Women's Basketball. **2 Units**
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins mid-October. The competitive season begins in November and continues to the end of February leading to the NCAA Championships for qualified teams.
Credit/No Credit

ATIC 81. Women's Golf. **2 Units**
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins the second week of September. Competition consists of one or two matches in the fall and the remaining part of the schedule is during the spring semester. Interested student-athletes who would like to walk on and try out for the team should contact the coach.
Credit/No Credit

ATIC 82. Women's Soccer. **2 Units**
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Morning and afternoon practices begin in mid-August in accordance with NCAA regulations. Competitive season begins the first week of September and ends in mid-November. Daily practices during fall semester are from 2:00-4:00 p.m.
Credit/No Credit

ATIC 83. Women's Gymnastics. **2 Units**
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins in September. The competitive season starts in January and ends in late April with the NCAA Championships for qualified teams. Daily practices are 12:30-4:00 p.m. Student-athletes must contact the coach prior to tryouts.
Credit/No Credit

ATIC 84. Women's Softball. **2 Units**
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins in the fall with the competitive season starting mid-February. The 56-game schedule is followed by NCAA Championships in late May for qualified teams. Daily practices are 1:30-5:30 p.m.
Credit/No Credit

ATIC 85. Women's Rowing. **2 Units**
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Rowing accommodates both scholarship and walk-on athletes with no experience necessary. Tall cross-over student-athletes are encouraged to turn out. Daily practice starts in September, 6:00-8:30 a.m. There is a fall semester long distance race season and a traditional 'sprint' season in the spring semester, concluding with the National Championships in May. All student-athletes race. No limit on squad size. Freshman/Novice, Junior Varsity and Varsity squads, lightweight (130 lbs.) or open. Also, coxswains required. Should be under 115 lbs.
Credit/No Credit

ATIC 86. Women's Tennis. **2 Units**
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins the first day of the fall semester and the spring schedule ends the last of May.
Credit/No Credit

ATIC 87. Women's Volleyball. **2 Units**
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Preseason begins in mid-August. Competition begins September 1 and ends in mid-December with NCAA Championships for qualified teams. Daily practices are 2:00-5:00 p.m. Interested student-athletes must contact the coach prior to the preseason, be cleared by the Clearinghouse, and meet all eligibility requirements in order to participate in tryouts.
Credit/No Credit

ATIC 88. Women's Cross Country. **2 Units**
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Practice begins mid-August and the season ends in mid-November.
Credit/No Credit

ATIC 89. Women's Track and Field. **2 Units**
Prerequisite(s): Intercollegiate Student Athletes only
Term Typically Offered: Fall, Spring

Indoor Track and Field practice begins in the fall. The competitive season is in the Winter. Outdoor Track and Field practice begins the first day of spring semester and the season ends the last week of May.
Credit/No Credit

ATIC 167. Coaching of Football. **3 Units**
Term Typically Offered: Fall, Spring

Examines all phases of the game, including offense, defense and special teams. Other topics covered are public/media relations, budget management, academic rules, marketing strategies, officiating, equipment and many other aspects. Lecture two hours, activity two hours.

ATIC 175. Sports Information Fieldwork. **1 - 3 Units**
Prerequisite(s): JOUR 123 or instructor permission.
Term Typically Offered: Fall, Spring

Directed observations and work experience with intercollegiate athletics sports information support services. Field work is offered to give students orientation in the profession of sports information services. Supervision is provided by the instructional staff of the university. Each student is required to maintain a record of activities and assignments and to prepare periodic reports.
Note: May be repeated once for credit.

Credit/No Credit

ATIC 195. Field Experience in Intercollegiate Athletics. **1 - 3 Units**
Term Typically Offered: Fall, Spring

Directed experience in athletics. Student interns keep records of daily experiences and prepare periodic progress reports. Succeeding enrollments should be in different sports.
Note: Registration requires prior approval of Director of Athletics.

Credit/No Credit

ATIC 199. Directed Individual Study. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual research, project or directed reading.
Note: Registration requires approval of the faculty under whom the individual work is to be conducted and the Director of Athletics.

Credit/No Credit

Biological Sciences (BIO)

BIO 1. Biodiversity, Evolution and Ecology. 5 Units
General Education Area/Graduation Requirement: Life Forms (B2), Laboratory (B3)
Term Typically Offered: Fall, Spring, Summer

Introduction to properties of life and cells leading to genetic and biological diversity. Survey of biological diversity emphasizing variation leading to natural selection; introduction to ecological concepts within an evolutionary framework; a survey of ecosystems and global climate change. Development of scientific skills will be emphasized. Designed for science majors. Lecture three hours; laboratory three hours; activity two hours; fee course.
Note: Field trips may be required.

Fee course.
Field trip(s) may be required.

BIO 2. Cells, Molecules and Genes. 5 Units
Prerequisite(s): BIO 1 and CHEM 1A.
Term Typically Offered: Fall, Spring

Introduction to molecular and cellular biology and genetics. Topics include biomolecules, cell structure and function, cellular energetics, molecular flow of information, cell division, and genetic inheritance. Development of scientific skills and a scientific mindset will be emphasized throughout the course, particularly in lab exercises and activities. Designed for science majors. Lecture three hours; laboratory three hours; activity two hours.

BIO 7. Introduction to the Science of Biology. 4 Units
General Education Area/Graduation Requirement: Laboratory (B3), Life Forms (B2)
Term Typically Offered: Fall, Spring

Introduction to major concepts of biology, including properties of living things, cells and their molecular constituents, the unity and diversity of organisms, genetics, ecology, evolution, and the scientific methods of investigation employed by biologists. Satisfies requirements in biology for students planning to obtain the Multiple Subject Teaching Credential. Lecture three hours; laboratory three hours. Fee course.
Fee course.

BIO 9. Our Living World: Evolution, Ecology and Behavior. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring

Designed for non-majors, this course is an introduction to the biological science behind important issues that face us today, such as those surrounding evolution, endangered species, conservation of ecosystems, and the behavior of organisms. By gaining an understanding of the scientific approach and the principles of evolution, ecology and behavior, students will be equipped to evaluate scientific developments and arguments in these and other issues as informed citizens. Lecture three hours.
Note: Not open to Biological Sciences majors or students who have received credit for BIO 1 or BIO 2.

BIO 10. Basic Biological Concepts. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring

An intensive introductory course for non-majors who will take additional course work in biology or related disciplines, including the allied health sciences. Introduction to the biological sciences with strong emphasis on cellular structure and metabolism, molecular biology and genetics, as well as concepts and principles common to all living systems including ecology and evolution. Lecture three hours.
Note: Not open to Biological Sciences majors or students who have received credit for BIO 1 or BIO 2.

BIO 15L. Laboratory Investigations in Biology. 1 Unit
Prerequisite(s): BIO 9, BIO 10 or BIO 20.
Corequisite(s): BIO 9, BIO 10 or BIO 20.
General Education Area/Graduation Requirement: Laboratory (B3)
Term Typically Offered: Fall, Spring

Introductory laboratory investigation of the major principles of biology, including properties of all living things, the unity and diversity of organisms, structure and function of cells, energy and metabolism, genetics, ecology, evolution, and the scientific methods of investigation employed by biologists. Laboratory three hours.
Note: Not open to Biological Sciences majors or students who have received credit for BIO 1 or BIO 2.

BIO 20. Biology: A Human Perspective. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring

Introduction to biological concepts with emphasis on their application to humans. Topics include: Evidenced-based decision making with respect to food, nutritional supplements, drugs, pathogens, and biotechnology. How heredity and evolution contribute to our understanding of personality, sex, behavior, addiction, disease, and aging is also discussed. Lecture three hours.
Note: Not open to majors in biological sciences and/or students who have received credit for BIO 10.

BIO 22. Introductory Human Anatomy. 4 Units
Prerequisite(s): BIO 1, BIO 2 or BIO 10
Term Typically Offered: Fall, Spring

Introduction to the study of the gross and microscopic structure of the human body using a systemic approach. Lecture three hours; laboratory three hours. Fee course.
Fee course.

BIO 25. Human Anatomy and Physiology I. 4 Units
Term Typically Offered: Fall, Spring

BIO 25/26 series provides an introduction to the structure and function of the major organ systems of the human body. BIO 25 offers basic terminology and concepts pertaining to the disciplines of anatomy and physiology, including structure/function relationships, homeostasis, and organizational levels; and provides an introduction to the structure and function of the muscular and nervous systems.
Note: Not open to students who have successfully completed BIO 22 and BIO 131, or an equivalent combination of separate anatomy and physiology courses. Lecture three hours; laboratory three hours. Fee course.

Fee course.

BIO 26. Human Anatomy and Physiology II. 4 Units
Prerequisite(s): BIO 25 or instructor permission.
Term Typically Offered: Fall, Spring

BIO 25/26 series provides an introduction to the structure and function of the major organ systems of the human body. BIO 26 provides an introduction to the structure and function of the cardiovascular, respiratory, renal and digestive systems, and emphasizes homeostatic control mechanisms.
Note: Not open to students who have successfully completed BIO 22 and BIO 131, or an equivalent combination of separate anatomy and physiology courses. Lecture three hours; laboratory three hours. Fee course.

Fee course.

BIO 30. Anatomy & Physiology - Brief Course. 4 Units
Prerequisite(s): Physical Education majors only
Term Typically Offered: Fall, Spring

An overview of the basic anatomy and physiology of all systems. Designed to meet the standards for the Physical Education Subject Matter Program, but may also may prepare students for study in other health-related fields.

BIO 39. Microbiology for Allied Health Students. 4 Units
Prerequisite(s): BIO 10; CHEM 5 or CHEM 6A and CHEM 6B or equivalent.
Term Typically Offered: Fall, Spring

Introduction to micro-organisms, particularly bacteria and viruses, with emphasis on health care-related applications of microbiology using case studies. Laboratory work includes aseptic techniques, methods of cultivating and identifying bacteria, demonstration of microbial properties and will provide practice with basic microbiological skills. Lecture three hours; laboratory three hours. Fee Course.
Note: Does not satisfy microbiology requirement for Biological Sciences majors.

Fee course.

BIO 100. Introduction to Scientific Analysis. 3 Units
Prerequisite(s): BIO 1, BIO 2, and STAT 1; declared Biological Sciences majors only or instructor consent.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Prepares students for upper division Biology coursework and careers in science using a curriculum centered on critical thinking and evidence-based instruction and activities. Covers core competencies required for the practice of science: 1) evaluative reading, 2) written and oral communication, 3) analysis/quantitative reasoning, and 4) experimental design. Online lecture two hours. In-person laboratory three hours.
Note: Course cannot be taken concurrently with or after taking BIO 167.

BIO 102. The Natural History of Plants. 3 Units
Prerequisite(s): A college course in biology or instructor permission.
Term Typically Offered: Fall, Spring

Major plant communities of California provide a framework for understanding the interrelationships of natural environments and the dominant trees and shrubs of these areas. Identification of these species and the wildflowers of the communities are emphasized in the lab and field trips. Designed for minors in biology or for those with an interest in their natural surroundings, but is acceptable for majors who have not completed BIO 112. Lecture one hour; laboratory six hours. Fee course.
Fee course.
Field trip(s) may be required.

BIO 103. Plants and Civilization. 3 Units
Prerequisite(s): BIO 10 or equivalent.
Term Typically Offered: Fall, Spring

Study of the significance of plants in the development of human civilization. Emphasis will be placed on the botanical, sociological and economic aspects of plants useful to humans. Lecture three hours.

BIO 104. Physiology of Human Reproduction. 3 Units
Prerequisite(s): BIO 1, BIO 2 or BIO 10.
Term Typically Offered: Spring only

Study of the physiology of human reproduction. Topics to be covered include: gametogenesis, the basis of fertility, conception, prenatal development, parturition, lactation and the physiology of contraception. Lecture three hours.

BIO 105. Life in the Ocean. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Study of marine life and ocean ecosystems. Exploration of the unique adaptations of marine life, how marine organisms interact with their environment, diversity of marine habitats from coral reefs to deep sea, and conservation. Does not count toward the Biological Sciences Major.

BIO 106. Genetics: From Mendel to Molecules. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the principles of genetics and scientific approaches used to define those principles. The physical basis of heredity, the impact of selective breeding and genetic engineering will be discussed. Lecture two hours; discussion one hour.
Note: BIO 10 recommended.

BIO 109. Biology of Dinosaurs. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Introduction to the biology of the dinosaurs. Dinosaurs came in a vast array of shapes and sizes and exemplify biodiversity. This course will examine the dinosaurs in an evolutionary framework, discussing their origin, the major lineages, phylogeny and what they look like today. The course will take advantage of the recent surge in scientific investigations into the biology of dinosaurs, such as parental care, sexual selection, group living, flight and feathers. Does not count toward the Biological Sciences Major.

BIO 112. Plant Taxonomy. 4 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

Spring flora of central California is used as the focus of study in the classification and identification of native vascular plants. Lecture two hours; laboratory six hours. Field trips may be required. Fee course.
Fee course.
Field trip(s) may be required.

BIO 113. Evolution and Speciation in Flowering Plants. 3 Units
Prerequisite(s): BIO 1 and BIO 2 or equivalent.
Term Typically Offered: Fall only – even years

A survey of the important tools and mechanisms used to study speciation in plants. Topics include the molecular basis of evolutionary change, intraspecific genetic variation at both the local and landscape levels, theory regarding mechanisms of speciation, and the importance of polyploidy. Readings will be from both a text and from the primary literature, and will include in-depth discussions of historical and modern studies in plant evolution. Lecture three hours.

BIO 115. Introduction to Neuroscience. 4 Units
Prerequisite(s): PSYC 2 and PSYC 8; PSYC or BIO majors only. PSYC 9 recommended.
Term Typically Offered: Fall, Spring

Investigation of the structure and function of the central nervous system including neuroanatomy and neurophysiology, sensorimotor integration. The lectures and readings emphasize the empirical questions, techniques and methods used in neuroscience research. Laboratory exercises focus on gross- and micro- neuroanatomy, models of membrane electrophysiology and motor system function. Lecture/discussion three hours; laboratory three hours.
Cross Listed: PSYC 115; only one may be counted for credit.

BIO 118. Natural Resource Conservation. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Fall only – odd years

Introduction to the principles and practices of biological conservation. Historical development of conservation philosophy; current issues in conservation of renewable natural resources; conservation administration. Lecture three hours.

BIO 120. Biology of Aging. 3 Units
Prerequisite(s): BIO 1, BIO 2, BIO 10 or BIO 20.
Term Typically Offered: Fall, Spring

Theories of aging, cellular aging and aging effects on the various human body systems. Lecture three hours.
Note: Not open for credit to students who have previously taken BIO 131.

BIO 121. Molecular Cell Biology. 3 Units
Prerequisite(s): BIO 184
Term Typically Offered: Fall, Spring

Comparison of the cellular and molecular biology of prokaryotic and eukaryotic cells. Emphasis will be placed on membrane structures, transport phenomena, cell to cell communication, cellular reproduction, genetic architecture, gene expression and metabolism, as well as the eukaryotic endomembrane, cytoskeleton and extracellular matrix systems. Lecture three hours.

BIO 122. Advanced Human Anatomy. 4 Units
Prerequisite(s): BIO 22.
Term Typically Offered: Spring only

Gross structure of the human body using a regional approach. Lecture three hours; laboratory three hours. Fee course.
Fee course.

BIO 123. Neuroanatomy. 3 Units
Prerequisite(s): BIO 22.
Term Typically Offered: Fall only

Gross and microscopic structures of the central, peripheral and autonomic nervous systems. The lectures are correlated with laboratory exercises and demonstrations using human prosected cadaver specimens, audio-visual slide projected materials, charts and models. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 124. Clinical Hematology. 3 Units
Prerequisite(s): CHEM 161 and BIO 184
Term Typically Offered: Spring only

Basic principles and current clinical laboratory procedures used in the study of blood; emphasis on morphological and chemical changes in the disease processes. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 125. Body Fluid Analysis. 1 Unit
Prerequisite(s): CHEM 161 or instructor permission.
Term Typically Offered: Fall only

Production of body fluids (e.g., urine, cerebrospinal, pleural, peritoneal, pericardial, and synovial fluids); their normal characteristics and pathological changes will be discussed. A description of the laboratory tests used in the clinical evaluation of body fluids will also be presented.

BIO 126. Comparative Vertebrate Morphology. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

Study of the anatomical systems of vertebrates in an evolutionary and functional context. Covers vertebrate form, function, development and phylogeny, overviews of organ systems, and how their modification founded the major events of vertebrate evolution including metamorphosis, water-to-land transition, tetrapodal locomotion, feeding and reproduction. Labs complement lectures with dissections of three representative species (shark, salamander, cat), and surveys of specializations in other forms. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 127. Developmental Biology. 4 Units
Prerequisite(s): BIO 2.
Term Typically Offered: Fall only

This course examines the progression of fertilized eggs of vertebrate organisms through embryonic development. This progression will be studied at biochemical, molecular, genetic, morphological and physiological levels, with an emphasis on the progressive changes that occur within cells, tissues and organs in the embryo. We will use a comparative approach between a variety of model organisms to understand similarities and differences among vertebrate and selected invertebrate species. Fee course.
Note: Prerequisite will be enforced by instructor.

Fee course.

BIO 128. Plant Anatomy and Physiology. 4 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

An integrative examination of our current understanding of plant structure and function. Students will apply fundamental principles of cell and molecular biology, evolution, and ecology to understand the relationships between plant anatomy and plant physiology that have enabled plants to achieve such a high level of success as primary producers on our planet. Lecture three hours, laboratory three hours. Fee course.
Fee course.

BIO 130. Histology. 3 Units
Prerequisite(s): BIO 22
Term Typically Offered: Spring only

Study of the morphology and physiology of cells in primary normal human tissues and the arrangement and adaptations of tissues in organs and organ systems. The characteristics and properties of abnormalities in human tissues will be covered if time permits. Lecture two hours; laboratory three hours.

BIO 131. Systemic Physiology. 4 Units
Prerequisite(s): CHEM 1B or CHEM 6B and BIO 1 or BIO 2 or BIO 10 or BIO 22.
Term Typically Offered: Fall, Spring

Physiology of organ systems with emphasis on control and integration of system function. Experiments using humans and selected vertebrate animal models are performed in the laboratory to illustrate functional characteristics of organ systems discussed in lecture and to provide direct experience with techniques, recording systems, and methods of data analysis commonly used in physiology and related fields. Lecture three hours; laboratory three hours. Fee course.
Fee course.

BIO 131A. Advanced Problems in Physiology. 1 Unit
Corequisite(s): BIO 131
Term Typically Offered: Fall, Spring

Advanced problem-solving in physiology designed for students concurrently enrolled in BIO 131. Students explore solutions to challenging problem sets under the direct supervision of an experienced section leader. Discussion: two hours.
Credit/No Credit

BIO 132. Neurophysiology. 3 Units
Prerequisite(s): BIO 131 or both BIO 25 and BIO 26.
Term Typically Offered: Fall, Spring

Organization and function of the nervous system will be explored. Topics include mechanisms of communication between neurons, integration of sensory and motor systems, and functional brain systems. Diseased states will be introduced, as appropriate. Lecture 3 hours.

BIO 133. Cardiovascular, Respiratory and Renal Physiology. 3 Units
Prerequisite(s): BIO 131.
Term Typically Offered: Spring only

Advanced consideration of the integrated physiology of the cardiovascular, respiratory, and renal systems, including acid-base physiology. Advanced problem-solving, analysis of case studies, and interpretation of experimental findings will be included. Lecture three hours.

BIO 134. Medical Mycology. 3 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Spring only – even years

Study of the morphology, cultural characteristics and classification of fungi which are pathogenic for humans, as well as fungi which appear as common contaminants. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 135. Endocrinology. 3 Units
Prerequisite(s): BIO 121.
Term Typically Offered: Fall only

Advanced consideration of the principles of endocrinology with special emphasis on the role of hormones in growth, metabolism, stress (including the hormonal interactions during exercise) and disease. Various endocrine disorders, will serve as the model for case studies, current literature analysis and advanced problem-solving activities. Lecture three hours.

BIO 139. General Microbiology. 4 Units
Prerequisite(s): BIO 184; CHEM 20 or CHEM 24
Term Typically Offered: Fall, Spring

Introduction to microorganisms, particularly bacteria and viruses, their physiology and metabolism. Laboratory work includes aseptic techniques, methods of cultivating and identifying bacteria, and demonstration of microbial properties. Lecture three hours; laboratory three hours. Fee course.
Fee course.

BIO 140. Medical Microbiology and Emerging Infectious Diseases. 3 Units
Prerequisite(s): BIO 39 or BIO 139.
Term Typically Offered: Spring only

Lectures, discussions, and readings regarding infectious viruses, bacteria, fungi, and parasites, with an emphasis on highly relevant pathogens including emerging infectious agents and microbes that are regionally endemic. The clinical syndrome, along with the molecular and cellular aspects of the course of infection of each pathogen will be discussed. Additionally, the history of microbiology and medicine as well as a brief overview of laboratory methods used for diagnosis will also be covered. Lecture three hours.
Note: BIO 140 cannot substitute for BIO 144 in the CLS concentration in Biological Sciences.

BIO 143. General Virology. 3 Units
Prerequisite(s): BIO 121 and BIO 139
Term Typically Offered: Spring only

Lectures and demonstrations on the fundamental characteristics and properties of plant, animal and bacterial viruses. Lecture three hours.

BIO 144. Pathogenic Bacteriology. 4 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Fall, Spring

Morphological, physiological and immunological characteristics of pathogenic bacteria. In the laboratory, pure culture studies are emphasized. Lecture two hours; laboratory six hours. Fee course.
Fee course.

BIO 145. The Diversity of Microorganisms. 4 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Spring only

Isolation, cultivation and characterization of a wide variety of soil and water microbes from natural habitats using a variety of culture and non-culture based techniques; natural habitats also will be examined directly for the numbers and varieties of microbes which are present using bioinformatic and statistical tools. Lecture two hours; laboratory six hours.

BIO 149A. Immunology. 3 Units
Prerequisite(s): BIO 121 and BIO 139
Term Typically Offered: Fall, Spring

Nature of antigens, antibodies and their reactions. The development of the immune response and its role in immunity and pathology. Lecture two hours.

BIO 149B. Immunology and Serology Laboratory. 1 Unit
Prerequisite(s): BIO 139, BIO 149A.
Term Typically Offered: Fall, Spring

Laboratory exercises designed to provide familiarity with common clinical laboratory procedures in serology. Laboratory three hours. Fee course.
Fee course.

BIO 149C. Advanced Problems in Immunology. 1 Unit
Prerequisite(s): BIO 139 and CHEM 161.
Corequisite(s): BIO 149A.
Term Typically Offered: Fall only

Advanced problem-solving in immunology designed for students concurrently enrolled in BIO 149A. Discussions and problem sets are focused on the medical, clinical, and biotechnology applications of immunology. Discussion one hour.
Credit/No Credit

BIO 150. Forensic Biology. 3 Units
Prerequisite(s): BIO 1, BIO 2 and BIO 184.
Term Typically Offered: Spring only

Principles governing the application of biology and biological statistics to solve crimes. Topics include evidence examination and preservation, presumptive and confirmatory serological tests, hair comparison, generation and statistical analysis of mitochondrial and nuclear DNA profiles, structure and administration of the modern crime laboratory, and the role of the criminalist in the U.S. court system. Lecture two hours; laboratory three hours.
Note: Not offered every semester

BIO 151. Advanced Laboratory Techniques in Forensic Biology. 2 Units
Prerequisite(s): BIO 150 or instructor permission.
Term Typically Offered: Fall only

Laboratory exercises focusing on current research problems and skills in forensic serology, DNA typing, and court testimony. Topics will include DNA mixture and low copy number interpretation, advanced techniques in serological testing, research ethics, as well as skills for effective communication in the courtroom. Topics may also include Y-STR typing, animal and plant DNA identification and typing, microbial forensics, somatic mosaicism, ELISA specificity and sensitivity testing, and other current areas of active inquiry. Designed to prepare students for entry level positions as DNA analysts in federal, state, and local crime laboratories. Laboratory six hours. Fee course.
Fee course.

BIO 152. Human Parasitology. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

Examines, in detail, the most important species of protozoans, flukes, tapeworms and roundworms that infect humans. Life cycles, pathology and prophylaxis constitute the principal topics in lectures. Morphology, physiology, taxonomy and diagnosis constitute the principal topics in the laboratory. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 156. Food Microbiology. 3 Units
Prerequisite(s): BIO 139.
Term Typically Offered: Fall, Spring

Microbiology of food fermentations, food preservation and spoilage. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 157. General Entomology. 4 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Fall only

Biology of insects and a brief consideration of other terrestrial arthropods. Includes structure, physiology, ecology, classification, economic importance, collection and preservation of insects. Lecture three hours; laboratory three hours. Fee course.
Fee course.

BIO 160. General Ecology. 3 Units
Prerequisite(s): BIO 1 and BIO 2 or BIO 1 and BIO 10; BIO 100 or ENVS 120. Fee course.
Term Typically Offered: Fall, Spring

Examination of the interrelationships among organisms and their environments. Designed for the major in Biological Sciences or related fields. Topics include the structure and function of terrestrial and aquatic ecosystems, population and community dynamics and human effects on ecosystems. Projects and field trips required. Lecture two hours; laboratory three hours.
Fee course.
Field trip(s) may be required.

BIO 162. Ichthyology: The Study of Fishes. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Fall only – even years

Biology of fishes: structure, physiology, ecology, economic importance, propagation and classification. Methods of identification, life history study, propagation, collection and preservation. Lecture two hours; laboratory three hours. Field trips may be required. Fee course.
Fee course.
Field trip(s) may be required.

BIO 164. Amphibians and Reptiles: An Introduction to Herpetology. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only – even years

Taxonomy, natural history, ecology and distribution of amphibians and reptiles with emphasis on local forms. Lecture two hours; laboratory three hours. Field trips may be required. Fee course.
Fee course.
Field trip(s) may be required.

BIO 166. Ornithology. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only – odd years

Biology of birds: structure, physiology, ecology, behavior, and classification. Methods of life history study, ecological studies, laboratory and field identification. Lecture two hours; laboratory three hours. Field trips required. Fee course.
Fee course.
Field trip(s) may be required.

BIO 167. Quantitative Methods in Biology. 3 Units
Prerequisite(s): STAT 1 and BIO 100 or graduate status
Term Typically Offered: Spring only

Focuses on statistical hypothesis testing and experimental design in the biological sciences. Topics include the development of a hypothesis, study design and implementation, management and presentation of data, identification of data types, and appropriate use of statistical procedures. General application to a wide range of biological disciplines and will emphasize the scientific process, critical thinking skills, and the interpretation of statistical results, which will include a project culminating a scientific paper and presentation. Lecture two hours; laboratory three hours.

BIO 168. Mammalogy. 4 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Fall only

Biology of mammals: structure, physiology, ecology, behavior, classification. Methods of life history, laboratory and field identification, collection and preservation. Lecture three hours; laboratory three hours. Field trips required. Fee course.
Fee course.
Field trip(s) may be required.

BIO 169. Animal Behavior. 3 Units
Prerequisite(s): BIO 1 and BIO 2.
Term Typically Offered: Spring only

Introduction to the fascinating world of why animals do the things that they do. Focus is on the evolution and function of animal behavior through understanding the costs and benefits of different behavior including foraging, fighting and reproduction. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 170. Advanced Nutrition and Metabolism. 3 Units
Prerequisite(s): CHEM 161, FACS 113; or instructor permission.
Term Typically Offered: Spring only – odd years

Study of the physiologic function of carbohydrates, lipids, protein and micronutrients including integrated metabolism, transport, regulation and relation to inborn errors/chronic disease. Introduction to gene-nutrient interaction.
Cross Listed: FACS 170; only one may be counted for credit.

BIO 173. Principles of Fisheries Biology. 3 Units
Prerequisite(s): BIO 160, STAT 1.
Term Typically Offered: Fall only – odd years

Introduction to the biological principles basic to fisheries science, including enumeration, recruitment, growth, abundance and mortality. Mathematics, computer modeling, and field methods will be used to understand natural populations and the impact of fishing on those populations in keeping with modern approaches to fisheries science which are grounded in population ecology and conservation biology. Lecture two hours; laboratory three hours. Fee course.
Fee course.

BIO 178. Molecular Ecology. 4 Units
Prerequisite(s): BIO 184
Corequisite(s): BIO 188
Term Typically Offered: Fall, Spring

A survey of the use of molecular tools to understand ecological questions. Lecture will focus on the background and history of the use of molecular tools in ecological settings, including application of molecular tools to conservation of natural resources. Laboratory will include techniques for both wet lab and analysis of molecular data, including interpretation of results. Students will complete a capstone-style project that will culminate in the production of a research proposal.

BIO 179. Conservation Biology & Wildlife Management. 3 Units
Prerequisite(s): BIO 100. BIO 160 recommended. Or instructor permission. Paired
Term Typically Offered: Spring only

Study of human effects and management of ecological systems, including populations, communities, and ecosystems. Topics include population and biodiversity responses to human activities, endangered species management, reserve design, and restoration. Paired course with Bio 279.
Note: Lecture two hours; laboratory and fieldwork three hours; meets in the same location with the same instructor as Bio 279; course cannot be taken concurrently with or after taking BIO 279; Bio 279 cannot be taken in the graduate program after completing Bio 179.

BIO 180. Advanced Molecular Biology. 4 Units
Prerequisite(s): BIO 121 and BIO 184.
Term Typically Offered: Fall, Spring

Examination of the structure of genes and genomes, the mechanisms by which they change, and the use of evolutionary relationships to understand function. Mechanisms of the regulation of gene expression from gene to phenotype and the tools used o study these processes. Applications of molecular tools in medicine and biotechnology and the ethics around these approaches. Lecture two hours, laboratory six hours.

BIO 183. Cancer Biology. 3 Units
Prerequisite(s): BIO 121 and BIO 184.
Term Typically Offered: Fall only

Study of cancer from the molecular level to the effect on whole tissues and organs. Topics to be covered include the classification and nomenclature of cancers, the process leading up to the formation of a cancer, the possible causes of cancer, and possible treatment. Lecture two hours.

BIO 183A. Advanced Problems in Cancer Biology. 1 Unit
Prerequisite(s): BIO 121 and BIO 184 and BIO 183 or instructor permission; BIO 183 may be taken concurrently
Term Typically Offered: Fall, Spring

Literature searches and discussions are focused on medical, clinical, and biotechnological applications of Cancer Biology.

BIO 184. General Genetics. 4 Units
Prerequisite(s): BIO 1 and BIO 2; declared major in Biological Sciences, Biochemistry, Chemistry or instructor consent
Term Typically Offered: Fall, Spring, Summer

Principles of inheritance as they relate to microorganisms, plants, animals and humans. Genetic mechanisms are analyzed according to evidence derived from both classical and current research. The nature, structure, and function of the genome are considered at the molecular level. Lecture three hours; laboratory three hours. Fee course.
Fee course.

BIO 185. Topics in Biology. 3 Units
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2; CHEM 20.
Term Typically Offered: Fall, Spring

Current topics in cellular, developmental and/or molecular biology. Topics will vary. May be taken more than once provided that topics are different. Lecture three hours.

BIO 186A. Cell and Molecular Biology Seminar. 1 Unit
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2.
Term Typically Offered: Fall, Spring

Series of at least 10 seminars in cell and molecular biology. Topics within each seminar will vary each semester.
Note: May be repeated for credit. No more than one unit of BIO 186 may be counted toward the upper division major requirement.

Credit/No Credit

BIO 186B. Ecological and Environmental Issues Seminar. 1 Unit
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2.
Term Typically Offered: Fall only

Series of at least 10 seminars in ecological and environmental issues. Topics within each seminar will vary each semester.
Note: May be repeated for credit. No more than one unit of BIO 186 may be counted toward the upper division major requirement. Cross Listed: ENVS 186B; only one may be counted for credit.

Credit/No Credit

BIO 186C. Introduction to Health Careers Seminar. 1 Unit
Term Typically Offered: Fall, Spring

Designed for pre-health professional students who are in the process of researching traditional and non-traditional health professions and careers. This course consists of at least 10 seminars presented by various practicing health professionals, health professional students, and health professional school admissions officers. Topics vary each semester. One hour per week.
Credit/No Credit

BIO 187. Advanced Cell Biology. 4 Units
Prerequisite(s): BIO 121 and BIO 184.
Term Typically Offered: Fall, Spring

Advanced cellular and molecular biology of eukaryotic cells. Comparison to prokaryotic organism will be made as needed to illustrate key concepts. Emphasis will be placed on cellular functions and utilize two or more cellular systems; including cell to cell communication, regulation of gene expression, uptake and secretion, regulation of cytoskeletal configuration, cell migration and cellular reproduction. Lecture two hours, laboratory six hours.

BIO 188. Evolution. 3 Units
Prerequisite(s): BIO 184 or instructor permission.
Term Typically Offered: Fall, Spring

General survey of evolutionary processes: mechanisms of evolutionary change, adaptation and history of life. Designed for biological sciences majors. Lecture three hours.

BIO 194. Biology-Related Work Experience. 6 - 12 Units
Term Typically Offered: Fall, Spring

Supervised employment in a biology or biology-related company or agency arranged through the Department of Biological Sciences and the Cooperative Education Program office. Requires preparation of application packet, completion of a three to six month, full-time or part-time work assignment, and a written report.
Note: Open only to upper division or graduate students with appropriate preparation. Consent of Department Cooperative Education Committee required, and Committee will determine the number of units to be granted. Students may enroll for no more than 12 total units, and units may not be used to meet biology major or graduate course work requirements.

Credit/No Credit

BIO 195. Biological Internship. 1 - 2 Units
Prerequisite(s): Department chair and instructor (representing the appropriate biological discipline) permission.
Term Typically Offered: Fall, Spring

Supervised work-learn experience in biology with a public or private organization. Up to 4 units may be taken. No more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the biological sciences upper division major requirement.
Credit/No Credit

BIO 195D. Dental Internship. 1 - 2 Units
Prerequisite(s): Department chair and instructor (representing the appropriate preprofessional discipline) permission.
Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in the medical-related and business-related aspects of dentistry. Includes a volunteer experience in the community. No more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the biological sciences upper division major requirement.
Note: 1 unit = 40 hours of participation/semester and 2 units = 80 hours of participation/semester; May be repeated for up to 4 units of credit .

Credit/No Credit

BIO 195M. Medical Internship. 2 Units
Prerequisite(s): Department Chair, Instructor and Placement Agency's permission required.
Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in multiple aspects of health care. Includes a volunteer experience in the community, supplemental readings, and a presentation on current issues in medicine and health education. No more than 2 units of BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.
Note: 80 hours of participation/semester

Credit/No Credit

BIO 195P. Pharmacy Internship. 1 - 2 Units
Prerequisite(s): Department Chair, Instructor, and Placement Agency permission required.
Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in pharmacy. Includes a volunteer experience in the community. No more than 2 units from BIO 195, BIO 197 and Bio 199 combined can be applied to the biological sciences upper division major requirement. May be repeated for up to 4 units of credit. 1.0-2.0 units (40-80 hours of participation/semester).
Credit/No Credit

BIO 195T. Teaching Internship. 1 - 2 Units
Prerequisite(s): Department chair and instructor permission.
Term Typically Offered: Fall, Spring

Supervised non-paid internship experience in K-12 teaching. Includes regular meetings with supervising teacher and submission of a field experience journal. May be repeated for credit.
Note: No more than 2 units from BIO 195, 197 and 199 combined can be applied to the biological sciences upper division major requirement.

Credit/No Credit

BIO 197A. Laboratory Teaching Assistant. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Supervised experiences will include aspects of laboratory preparation and aspects of teaching biology laboratory courses. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of professor and Department Chair.
Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.

BIO 197B. Laboratory Techniques. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Supervised laboratory experiences for advanced students in the organization and techniques for operation of a basic sciences laboratory. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of professor and Department Chair.
Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

BIO 197C. Co-curricular Activities in Biology. 1 - 2 Units
Term Typically Offered: Fall, Spring

Students may earn BIO 197C credit by participating as tutors and/or section or discussion leaders for biological sciences classes or teaching as voluntary instructors or tutors in K-12 courses or programs offered by other community organizations. Participation requires four to eight hours weekly. Admission requires approval of professor and Department Chair.
Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

BIO 197D. Advanced Laboratory Exploration. 1 - 2 Units
Prerequisite(s): BIO 197A and instructor permission.
Term Typically Offered: Fall, Spring

Advanced, supervised experiences that explore the science behind laboratory experiences and discussion regarding aspects of specific laboratories that promote understanding of scientific content. Conferences and laboratory experiences four to eight hours weekly; written assignments and/or oral presentations required. Admission requires approval of professor and Department Chair.
Note: No more than 2 units from BIO 195, BIO 197, BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

BIO 197E. Intermediate Lab Techniques. 1 - 2 Units
Prerequisite(s): BIO 197B and instructor or Department Chair permission
Term Typically Offered: Fall, Spring

Supervised laboratory experiences for skilled students in the organization and techniques for operation of a basic sciences laboratory. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of instructor and Department Chair.
Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

BIO 197F. Advanced Lab Techniques. 1 - 2 Units
Prerequisite(s): BIO 197B and instructor permission.
Term Typically Offered: Fall, Spring

Advanced supervised laboratory experiences for skilled students in the organization and techniques for operation of a basic sciences laboratory. Conferences and laboratory experiences four to eight hours weekly. Admission requires approval of instructor and Department Chair.
Note: May be taken more than once; no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

Credit/No Credit

BIO 198A. Honors Proseminar and Research. 2 Units
Prerequisite(s): Open only to honors students in biological sciences who have an overall GPA of 3.25 and a minimum of 3.0 GPA in biology courses (at least six units of upper division biology excluding BIO 106, BIO 108, BIO 194, BIO 195, BIO 197 and BIO 199).
Term Typically Offered: Fall, Spring

Contemporary topics in biology selected by students in the course will form the basis for an introduction to scientific journals, the scientific method, and research as a professional pursuit. Each student develops a refined research proposal and prepares a seminar summarizing the proposal and the current state of knowledge in the topic area. Students will develop and refine their methodology under the direction of a faculty sponsor.

BIO 198B. Honors Research and Seminar. 2 Units
Prerequisite(s): BIO 198A.
Term Typically Offered: Fall, Spring

Directed research involving completion of an independently conducted research project for which a proposal and methodology was developed in BIO 198A. Data collection, summary and analysis, and formulation of conclusions based on the data will be discussed periodically with a faculty sponsor. Culmination will consist of preparation of an undergraduate thesis, poster and presentation of a seminar summarizing results and conclusions.
Note: Open only to honors students in Biological Sciences. Fee course.

Fee course.

BIO 199A. Introductory Undergraduate Research. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Student conducts introductory, independent laboratory or field research on an original question. Research must culminate in a formal report. Weekly meetings may be required. Students must have a research prospectus approved by faculty mentor and Department Chair.
Note: May be taken more than once, no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

BIO 199B. Directed Readings. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Directed Readings on a topic in Biology culminating in a research paper. Admission requires submission of a prospectus approved by the faculty member under whom the work is to be conducted and the Department Chair.
Note: May be taken more than once, but no more than 2 units from BIO 195, BIO 197 and BIO 199 combined can be applied to the Biological Sciences upper division major requirement.

BIO 199C. Intermediate Undergraduate Research. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Student conducts independent laboratory or field research on an original question. Research must culminate in a formal report. Weekly meetings may be required. Students must have a research prospectus approved by faculty mentor and Department Chair.
Note: May be taken more than once; no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

BIO 199D. Advanced Undergraduate Research. 1 - 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Advanced laboratory or field research on an original question. The research must culminate in a formal report. Weekly meetings may be required. Students must have a prospectus approved by the faculty member and the Department Chair.
Note: May be taken more than once; no more than 2 units from BIO 195, BIO 197 and BIO 199 combined may be applied to the Biological Sciences upper division major requirement.

BIO 214. Advanced Plant Ecology. 3 Units
Prerequisite(s): BIO 160.
Term Typically Offered: Fall, Spring

Fundamental properties of plant populations; population regulation; community productivity and structure; a study of ecotypic and ecoclinal variation in plant populations. Lecture one hour; laboratory and field six hours.

BIO 220. Introduction to Scientific Inquiry. **2 Units**
Term Typically Offered: Fall, Spring

Graduate level introduction to scientific inquiry in the biological sciences. Students learn to apply the scientific method, critically evaluate the scientific literature, initiate their graduate project, and develop written and oral scientific presentation skills. Lecture two hours.
Note: Graduate Writing Intensive (GWI).

BIO 221A. Cell and Molecular Methods and Techniques. **2 Units**
Prerequisite(s): BIO 220 (may be taken concurrently).
Term Typically Offered: Fall, Spring

Introduction to research methods in molecular and cellular biology. Students learn both cell and molecular techniques in the context of hypothesis-driven research to answer questions relating to a specific gene and cellular system. Experimental design and commonly used laboratory techniques will be explored. Two three hour laboratory periods. Fee course.
Fee course.

BIO 221B. Methods in Ecology, Evolution and Conservation. **2 Units**
Prerequisite(s): BIO 167, BIO 220 (may be taken concurrently).
Term Typically Offered: Fall, Spring

Introduction to research methods in ecology, evolution and conservation biology. Students learn field and laboratory techniques with a variety to taxa in a range of local ecosystems. Students will work with several faculty conducting research projects. Topics will include developing hypotheses, experimental design, study implementation, and statistical analyses. Students will be expected to present findings in oral and written form. Two three hour laboratory periods. Fee course.
Fee course.

BIO 221C. Exploration of Biological Methodology. **3 Units**
Term Typically Offered: Fall, Spring

Intended for students in the MA grant proposal track, this course explores a selected topic from multiple scientific perspectives. A discovery-based laboratory project using cell and molecular techniques complimented with lectures, discussions and field trips that investigate the ecological, environmental, and evolutionary aspects of the same topic. The laboratory project will focus on a current biological topic (such as genetically modified organisms) in accordance with the instructor's interests and expertise. One hour lecture, six hours lab per week.
Note: Not open to students in the Master of Science in Molecular and Cellular Biology Concentration.

Field trip(s) may be required.

BIO 222. Molecular Biology. **3 Units**
Prerequisite(s): BIO 184, CHEM 161.
Term Typically Offered: Fall, Spring

Processes and control of DNA replication, transcription, and translation developed from a consideration of the current literature. Lecture three hours.

BIO 223. Human Molecular Genetics. **3 Units**
Prerequisite(s): BIO 184 and CHEM 161.
Term Typically Offered: Fall, Spring

In-depth study of the molecular basis of human disease, emphasizing current experimental approaches and technologies. Topics include the isolation and analysis of disease genes, the influence of teratogans and random environmental events on human embryonic development, the molecular and biochemical consequences of mutagenesis, and ethical issues that currently surround the field. Lecture 3 hours.

BIO 224. Genomics, Proteomics, and Bioinformatics. **3 Units**
Prerequisite(s): BIO 184, BIO 222 and graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Examination of current approaches in structural genomics, functional genomics and proteomics, and the bioinformatics tools utilized to understand genome organization, the regulation of gene expression, gene function and the evolutionary relationships within and between genomes. Lecture two hours; laboratory 3 hours.

BIO 225. Stem Cell Biology and Manufacturing Practices. **1 Unit**
Prerequisite(s): Graduate status and instructor permission.
Term Typically Offered: Fall, Spring

Graduate level introductory course in human stem cell biology with specific emphasis on adult, embryonic, and induced pluripotent stem cells. Topics will include how stem cells are isolated or generated, how they are cultured, and how they are used for regenerative therapies. In addition, students will learn about Good Manufacturing Practice (GMP) and how to manufacture human stem cells.

BIO 227. Development and Regenerative Medicine. **3 Units**
Prerequisite(s): Graduate status and instructor permission.
Term Typically Offered: Fall, Spring

Examines the processes of cellular development in the embryo and adult with a focus on stem cells. Stem cells will be studied at the biochemical, molecular, genetic, epigenetic, cellular and physiological level, with an emphasis on their roles in promoting organismal health and disease. Current research and clinical applications will be examined, along with the bioethics, policies and politics of their use.

BIO 245. Host/Pathogen Interactions. **3 Units**
Prerequisite(s): BIO 121, BIO 139, BIO 184. Courses recommended but not required: BIO 144, BIO 149, BIO 180.
Term Typically Offered: Fall, Spring

Critical reading and discussion of current literature on host/pathogen interactions. Topics to be covered include: alteration of host intracellular trafficking, subversion of cell cytoskeleton for invasion, intracellular survival mechanisms, pathogen-induced cell killing, and evasion and subversion of the host immune system.

BIO 247. Contemporary Topics in Immunology. **2 Units**
Prerequisite(s): BIO 149A or instructor permission.
Term Typically Offered: Fall, Spring

Readings and discussions of current literature emphasizing new field developments and controversies. Lecture two hours.

BIO 260. Advanced Ecology. 3 Units
Prerequisite(s): BIO 160 or equivalent.
Term Typically Offered: Fall, Spring

Principles and applications of theoretical and field ecology as they apply to populations, communities and ecosystems.

BIO 269. Behavioral Ecology. 3 Units
Prerequisite(s): BIO 160 or instructor permission.
Term Typically Offered: Fall, Spring

Advanced study of animal behavior focusing on the life history consequences of social organization, spacing systems, sexual behavior, reproductive ecology, feeding ecology, competitive interactions and predator-prey interactions.

BIO 273. Advanced Fishery Biology and Management. 3 Units
Prerequisite(s): BIO 173 or instructor permission.
Term Typically Offered: Fall, Spring

Critical review and evaluation of current techniques and concepts relating to the management, protection, and improvement of fishery resources. Lecture three hours.

BIO 279. Conservation Biology and Wildlife Management. 3 Units
Prerequisite(s): BIO 160; or instructor permission.
Term Typically Offered: Spring only

Advanced study of human effects and management of ecological systems, including populations, communities, and ecosystems. Topics include population and biodiversity responses to human activities, endangered species management, reserve design, and restoration. Emphasis on the critical evaluation, review, and presentation of conservation literature and issues. Paired course with Bio 179.
Note: Lecture two hours; laboratory and fieldwork three hours; meets in the same location with the same instructor as Bio 179; course cannot be taken concurrently with or after taking BIO 179; Bio 279 cannot be taken in the graduate program after completing Bio 179. Field Trip(s).

Field trip(s) may be required.

BIO 282. Evolution. 3 Units
Term Typically Offered: Fall, Spring

Process of evolution throughout the taxonomic hierarchy and factors responsible for the generation of variability of the gene, cell, organism and population levels are explored through lectures, text readings and a survey of current periodical literature. Lecture 3 hours.

BIO 283. Biogeography. 3 Units
Term Typically Offered: Fall, Spring

Study of the past and present plant and animal distributions, and the geologic, climatic and ecologic factors involved in their migration, establishment and extinction. Lecture/discussions three hours.

BIO 285. Topics in Biology. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Readings and discussions of current literature emphasizing new developments and controversies in a comparatively narrow range of biological topics. Topics will vary with each offering, encompassing one recognized specialty in biology. May be repeated for credit when the topics vary.

BIO 293. Research Conference. 2 Units
Prerequisite(s): Department Chair and instructor permission.
Term Typically Offered: Fall, Spring

Presentation and discussion of graduate student and faculty research and current literature with emphasis on critical evaluation of research design, data analysis and presentation techniques.
Note: Discussion two hours. May be taken twice for credit. Only two units may be applied to the University's requirement for 200-level courses; May be repeated for up to 4 units of credit.

Credit/No Credit

BIO 294A. Seminar in Molecular and Cellular Biology. 1 Unit
Prerequisite(s): Student must be a Biology major at the master's level to enroll in this class and/or have instructor permission.
Term Typically Offered: Fall, Spring

Review and discussion of scientific literature in cell and molecular biology. Seminar topics will vary by semester.
Note: May be repeated for up to 4 units of credit.

Credit/No Credit

BIO 294B. Seminar in Ecology, Evolution and Conservation. 1 Unit
Prerequisite(s): Student must be a Biology major at the master's level to enroll in this class and/or have instructor permission.
Term Typically Offered: Fall, Spring

Review and discussion of scientific literature in ecology, evolution, and conservation biology. Seminar topics will vary by semester.
Note: May be repeated for up to 4 units of credit.

Credit/No Credit

BIO 297A. Teaching Biology Seminar. 1 Unit
Prerequisite(s): Acceptance in the GTA Program or instructor permission.
Term Typically Offered: Fall, Spring

Training for graduate students who wish to participate in the Department's Graduate Teaching Associate (GTA) Program and others interested in teaching biology. Weekly seminar session covering aspects of teaching biology laboratories. Lecture/discussion. Not applicable toward 18 unit 200-level course work requirement.
Credit/No Credit

BIO 297B. Laboratory Teaching. 1 Unit
Prerequisite(s): Acceptance in the GTA Program or instructor permission.
Term Typically Offered: Fall, Spring

Training for graduate students admitted to the Graduate Teaching Associate (GTA) Program. Students assist in teaching three hours of biology laboratory weekly under the supervision of a laboratory instructor. Laboratory three hours. Not applicable toward 18 unit 200-level coursework requirement.
Credit/No Credit

BIO 299. Problems in Biological Sciences. 1 - 4 Units
Term Typically Offered: Fall, Spring

Library research, short-term original research, technique development, or thesis research site selection and preliminary field observations. Culminating experience will be in the format of a scientific paper, annotated bibliography, demonstration of technique mastery, or oral presentation. Enrollment requires classified graduate status and approval of the project by a faculty supervisor and the Department Chair.
Credit/No Credit

BIO 500. Master's Thesis. 4 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree. Should be taken in final semester prior to the completion of all requirements for the degree.

BIO 502. Master's Project. 2 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her committee.
Term Typically Offered: Fall, Spring

Completion of a written project based on a research problem in biology approved for the Master of Arts Degree. Should be taken in final semester prior to the completion of all requirements for the degree.

BIO 633. Human Gross Anatomy for Physical Therapists. 3 Units
Prerequisite(s): BIO 22 or instructor permission.
Corequisite(s): PT 600, PT 602, PT 608, PT 630.
Term Typically Offered: Fall, Spring

Study of the gross anatomy of selected regions of the human body. Emphasis will be placed on musculoskeletal, neurovascular and anatomy of the joints of the back, thoracic wall, abdominal wall, upper limb and lower limb. Anatomical relationships will be reinforced through study of cross-sectional anatomy. Lecture two hours; lab three hours.
Note: Course designed for students enrolled in the Doctor of Physical Therapy Program.

Business Administration (BUS)

BUS 162. Project Management. 3 Units
Prerequisite(s): MGMT 102.
Term Typically Offered: Fall, Spring

Processes, methodologies, tools, techniques, software, economic analysis, and life-cycle costing for managing different phases of projects. Emphasis on effective management of projects to achieve operational, managerial, and strategic goals of organizations.

Business Honors (BHON)

BHON 102. Business Communication. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Provides basic concepts for the understanding and practice of communication for managers and professionals. Examines the use of language and conversations in business settings and their role in coordinating actions, resolving breakdowns in work performance, and providing customer satisfaction. Topics include professional styles and formats of business writing and development of competence in business conversation skills (written, electronic and oral).

BHON 103. Business Legal Environment. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Investigates substantive law and stresses critical thinking and analytical evaluation of contemporary business legal issues. Identifies ethical concerns and addresses potential legal problems. Topics include an introduction to the legal system, court procedures, contracts and sales, real and personal property, labor and employment law, product liability, and the government regulation of business.

BHON 104. Fundamentals of Organizational Behavior. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

The course provides students frameworks to deal and work with members of work organizations, and focuses on how individual, group and organization-level factors influence employee attitudes and behaviors. The course further discusses challenges people face in today's dynamic work environment and global settings.

BHON 105. Introduction to Management Information Systems. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Explores the application of information technology in the organizational environment to assist in managerial decision making. Examines the alignment of IT and business strategy.

BHON 106. Business Data Analysis. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Applies statistical methods to solve business problems and inform managerial decision making. Topics include data analysis, statistical reasoning, model building and communication of statistical results. A statistical computer package is used in this course.

BHON 107. Business Finance. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Study of principles of finance and their application to typical financial problems of business enterprises. Topics include financial analysis, management of working capital, capital budgeting, long-term financing, dividend policy, internal financing, and time value of money.

BHON 108. Fundamentals in Marketing. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

An introduction to marketing concepts and principals. Examines the marketing function, its relationships with other business functions, and its role in the US and global economies.

BHON 109. Operations Management. 2 Units
Prerequisite(s): Admitted into Business Honors Program.
Term Typically Offered: Fall, Spring

Introduces the basic concepts and methods used to analyze and improve operation performance in manufacturing and service organizations. Topics include operations strategy, process design and capacity management, inventory management, supply chain management, and operations planning and control.

BHON 120. Business Intelligence. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

Focuses on enterprise problem solving and decision making using information technology, and data and financial analyses for mission critical and integral applications in planning and control. Alternative solutions are examined and evaluated for their effectiveness in achieving results.

BHON 130. Value Chain and Supply Chain Management. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

Methods used for developing effective organizational value chains that integrate strategic planning, procurement, R&D, production, warehousing, distribution, and customer service to support business strategy. Includes critical decisions surrounding various organizational stakeholders, such as customer and supplier management, and the movement of goods and information throughout a supply chain network.

BHON 140. Enterprise Resource Planning and Infrastructure. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

Examines the design, planning, implementation and impact of enterprise-wide systems on the organization and infrastructure. Focuses on the integration and coordination of all facets of business, including production, accounting, finance, human resources, and marketing to improve the organization's resource planning, and management and operational control.

BHON 150. Entrepreneurship and Innovation. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

An application based course that provides a broad understanding of the new venture processes. Discusses fundamental tools and skills necessary to create, run, and grow a successful new venture. Offers a multidisciplinary framework for studying and developing innovative and creative capabilities of entrepreneurs.

BHON 160. Project Management. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

Methods and processes used for planning, controlling and managing projects. Includes project selection and scope, scheduling methodologies, economic analysis, the use of software, and life-cycle costing for managing different phases of projects. Emphasis on effective management of projects to achieve operational, managerial and strategic goals of organizations.

BHON 170. Strategy and Leadership. 3 Units
Prerequisite(s): BHON 102, BHON 104, BHON 105, BHON 106, BHON 107, BHON 108, BHON 109
Term Typically Offered: Fall, Spring

An introduction to traditional and contemporary theories of business strategy, corporate strategy and strategic leadership. Compares and contrasts theories in strategy and styles of strategic leadership through case studies, current research, and conversations with business leaders.

BHON 190. Practicum in Business. 1 Unit
Prerequisite(s): Currently enrolled in the business honors program.
Term Typically Offered: Fall, Spring

A series of forums that exposes students to practical business issues that have significant impact on the enterprise. Discussions with managers who have effectively led planning and operations. Compares and contrasts business concepts and principles to their practical applications.
Credit/No Credit

Chemistry (CHEM)

CHEM 1A. General Chemistry I. 5 Units
Prerequisite(s): High school chemistry and college algebra; sufficient performance on the college algebra diagnostic test, or equivalent; passing score on a standardized Chemistry diagnostic exam given prior to each semester, or a minimum grade of 'C' in CHEM 4.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B3)
Term Typically Offered: Fall, Spring

Fundamental principles and concepts of chemistry, including stoichiometry; thermochemistry; atomic and molecular structure; solution chemistry, including acid-base chemistry; quantum theory; bonding and intermolecular forces; and chemical kinetics. Lecture three hours, laboratory three hours, discussion one hour.
Note: Not open to enrollment by engineering majors, who should take CHEM 1E, General Chemistry for Engineering.

CHEM 1B. General Chemistry II. 5 Units
Prerequisite(s): CHEM 1A with a passing grade of C or better.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Continuation of the development of fundamental principles of chemistry and application of principles developed in CHEM 1A. The laboratory work emphasizes applications of equilibrium principles, including some qualitative analysis, coordination chemistry and bioinorganic chemistry. Lecture three hours, laboratory six hours. Knowledge of word processing and spreadsheet software is recommended.

CHEM 1E. General Chemistry for Engineering. 4 Units
Prerequisite(s): High school chemistry; Math 30 or eligibility to take MATH 30 as evidenced by the calculus readiness diagnostic exam; passing score on a standardized Chemistry diagnostic exam given prior to each semester, or minimum grade of 'C' in CHEM 4
Term Typically Offered: Fall, Spring, Summer

A one-semester chemistry course for engineering students covering the fundamental principles and concepts of chemistry important to engineering applications. Lecture topics include atomic and molecular structure, solution chemistry, equilibrium, oxidation-reduction, thermochemistry; intermolecular forces; electrochemistry; radiochemistry; polymers; metallic bonding and alloys; chemical diffusion and kinetics. Lecture three hours, Lab three hours.
Note: Enrollment in this course is restricted to engineering majors.

CHEM 4. Chemical Calculations. 3 Units
Prerequisite(s): High school algebra and college algebra; sufficient performance on the college algebra diagnostic test, or equivalent.
Term Typically Offered: Fall, Spring, Summer

Introductory chemistry for students who plan to major in a scientific field. Appropriate for students desiring to prepare themselves for Chemistry 1A. Emphasizes chemical nomenclature and techniques of chemical problem solving. Topics covered include: dimensional analysis; conversions between measuring units; weight, mole and chemical equations; density; elementary gas laws; heat and temperature; elementary acid and base chemistry; oxidation and reduction; solutions. Three hours lecture.

CHEM 6A. Introduction to General Chemistry. 5 Units
Prerequisite(s): One year high school algebra; high school chemistry recommended.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B3)
Term Typically Offered: Fall, Spring

Structure of atoms, molecules and ions; their interactions including stoichiometry, equilibria, and oxidation-reduction. Does not fulfill the requirements for more advanced study in chemistry and cannot be counted toward a major or minor in chemistry. Lecture three hours, discussion one hour, laboratory three hours.

CHEM 6B. Introduction to Organic and Biological Chemistry. 5 Units
Prerequisite(s): CHEM 1A or CHEM 6A, or a high school chemistry course and passing a qualifying exam given in the first laboratory period.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Introduction to structure and properties of the major classes of organic compounds; introduction to nomenclature and to the fundamental concepts of reaction mechanisms and stereochemistry; the chemistry and metabolism of carbohydrates, lipids, proteins (including enzymes); the chemistry of nucleic acids. Does not fulfill the requirement for more advanced study in chemistry and cannot be counted toward a major or minor in chemistry. Lecture three hours; discussion one hour; laboratory three hours.

CHEM 20. Organic Chemistry Lecture--Brief Course. 3 Units
Prerequisite(s): CHEM 1B.
Term Typically Offered: Fall, Spring, Summer

Basic principles of organic chemistry. Recommended for students majoring in life-sciences, but not recommended for preprofessional students.

CHEM 20L. Introductory Organic Chemistry Laboratory. 1 Unit
Prerequisite(s): CHEM 20; CHEM 20 may be taken concurrently.
Term Typically Offered: Fall, Spring

Basic organic experimental techniques. Experimental topics include: melting points, purification of solids, distillation, chromatography, extraction, and functional group qualitative analysis. Specifically designed for Biological Sciences majors and others who want to meet the Chemistry minor requirements for a lower division organic laboratory. Laboratory three hours.

CHEM 24. Organic Chemistry Lecture I. 3 Units
Prerequisite(s): CHEM 1B.
Term Typically Offered: Fall, Spring, Summer

Introduction to the basic principals of organic chemistry, including nomenclature, properties and reactions of various classes of organic compounds. Reaction mechanisms will be emphasized.
Note: Required for chemistry majors and recommended for preprofessional students.

CHEM 25. Organic Chemistry Laboratory. 3 Units
Prerequisite(s): CHEM 24, CHEM 124; CHEM 124 may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Basic organic experimental techniques including the preparation, separation, purification and identification of organic compounds. Discussion one hour, laboratory six hours.

CHEM 31. Quantitative Analysis. 4 Units
Prerequisite(s): CHEM 1B.
Term Typically Offered: Fall, Spring

Chemical measurements including associated statistics, chemical equilibrium in aqueous solutions, volumetric analysis, and an introduction to spectrophotometry and chromatography. Lecture two hours, laboratory six hours.

CHEM 89. Introduction to Undergraduate Research. 1 - 3 Units
Term Typically Offered: Fall, Spring

Introduction to undergraduate research which requires students to become familiar lab safety policies, SDSs, and SOPs in the research lab (if applicable), attend group meetings (if applicable) and learn methods of experimental, educational and/or computational design. Students must show proficiency in these requirements in order to receive a final grade. Credit/No Credit

CHEM 106. Chemical Concepts. 3 Units
Prerequisite(s): GEOL 8 or BIO 7 and ENGL 20 or an equivalent second semester composition course. Fee course.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Principles and concepts of chemistry with applications in the home and environment. Satisfies the upper division chemistry requirement for the multiple-subject teaching credential. Lecture one hour, discussion and activity four hours. Does not fulfill credit requirements for the major or minor in chemistry.
Fee course.

CHEM 110. Inorganic Chemistry Lecture. 3 Units
Prerequisite(s): CHEM 125, CHEM 140B or CHEM 142 instructor permission; CHEM 140B may be taken concurrently, however, students are encouraged to complete CHEM 140B and CHEM 141 first.
Corequisite(s): CHEM 110L.
Term Typically Offered: Fall only

Application of atomic structure, the periodic law, molecular structure and bonding principles, electrochemical principles and other selected models and concepts to theoretical and descriptive inorganic chemistry. Physical and chemical properties of selected elements and inorganic compounds are studied.

CHEM 110L. Advanced Inorganic Chemistry Laboratory. 2 Units
Prerequisite(s): CHEM 125, ENGL 20 or an equivalent second semester composition course.
Corequisite(s): CHEM 110.
Term Typically Offered: Fall only

Preparation, purification and instrumental studies of inorganic compounds. Instrumental and experimental techniques will include EPR, magnetic susceptibility, FTIR, UV-VIS spectroscopy and inert atmosphere techniques.

CHEM 124. Organic Chemistry Lecture II. 3 Units
Prerequisite(s): CHEM 24 or instructor permission; concurrent enrollment in CHEM 25 recommended.
Term Typically Offered: Fall, Spring, Summer

Continued discussion of the principals of organic chemistry, including nomenclature, properties, and reactions of various classes of organic compounds and spectroscopic analysis. Reaction mechanisms will be emphasized.

CHEM 125. Advanced Organic Chemistry Laboratory. 3 Units
Prerequisite(s): CHEM 25, CHEM 124, ENGL 20 or an equivalent second semester composition course.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Focuses on advanced organic laboratory techniques and instrumental methods of analysis. Not intended for pre-health professional majors. Discussion one hour, laboratory six hours.

CHEM 126. Physical Organic Chemistry. 3 Units
Prerequisite(s): CHEM 124, and CHEM 140B or CHEM 142, or instructor permission.
Corequisite(s): CHEM 140B or CHEM 142 may be taken concurrently.
Term Typically Offered: Fall, Spring

Study of mechanistic organic chemistry, the physical tools used to study reaction mechanisms, and the relationship between structure and reactivity. Topics include bonding theories, stereoelectronic effects, transition state theory, thermodynamics, kinetic analysis, isotope effects, linear free energy relationships, and application of frontier molecular orbital theory to examine reactions including pericyclic reactions.
Note: Students who have taken CHEM 126 at Sacramento State cannot take CHEM 226 for credit.

CHEM 128. Organic Synthesis. 3 Units
Prerequisite(s): CHEM 124.
Term Typically Offered: Spring only

Application of functional group reactions to multistep syntheses. Recently developed synthetic methods and literature searching will be emphasized.

CHEM 133. Chemical Instrumentation. 4 Units
Prerequisite(s): CHEM 31, concurrent enrollment in CHEM 140B or completion of CHEM 142: ENGL 20 or an equivalent second semester composition course. Graded: Graded Student. Units: 4.0
Term Typically Offered: Fall, Spring

Modern instrumentation and methods for chemical analysis. Function of electronics and computers in instruments. Theory and use of instruments in the areas of electrochemistry, spectroscopy, mass spectrometry and chromatography. Lecture two hours, laboratory six hours.

CHEM 140A. Physical Chemistry Lecture I. 3 Units
Prerequisite(s): CHEM 1B, CHEM 24, CHEM 31, MATH 32, PHYS 5A, PHYS 5B, or PHYS 11A, PHYS 11B, PHYS 11C; PHYS 11B may be taken concurrently.
Term Typically Offered: Fall only

Introduction to chemical thermodynamics and kinetics.

CHEM 140B. Physical Chemistry Lecture II. 3 Units
Prerequisite(s): CHEM 140A.
Term Typically Offered: Spring only

Introduction to molecular quantum chemistry, structure of matter, molecular spectroscopy, and statistical thermodynamics.

CHEM 141. Physical Chemistry Laboratory. 3 Units
Prerequisite(s): ENGL 20 or an equivalent second semester composition course; CHEM 140A, CHEM 140B or CHEM 142, instructor permission; CHEM 140B may be taken concurrently.
Term Typically Offered: Fall, Spring

Selected exercises in the practice of physio-chemical laboratory methods. Lecture one hour, laboratory six hours.

CHEM 142. Introduction to Physical Chemistry. 4 Units
Prerequisite(s): CHEM 1B, CHEM 24, PHYS 5A, PHYS 5B, MATH 31.
Term Typically Offered: Fall, Spring

Introductory presentation of the theoretical and practical aspects of thermodynamics, quantum chemistry, spectroscopy, and kinetics. As time permits, other topics will be: solution chemistry, hydrodynamics, electrochemistry, and crystallography.
Note: Not acceptable for the BS or the BA without concentration.

CHEM 145. Applications of Computational Chemistry. 3 Units
Prerequisite(s): CHEM 140A and CHEM 140B or CHEM 142, or instructor permission.
Term Typically Offered: Fall only – odd years

Brief introduction/background in computational theory, with emphasis on chemical/biochemical applications. Demonstration/instruction of widely used modeling/computational software. Covering techniques including molecular mechanics, semi-imperical methods and 'ab initio' methods. Application of computational methods to thermodynamics, kinetics, spectra, electrochemistry, molecular properties. Lecture three hours.
Note: 1) CHEM 245 students will complete an additional research project beyond that expected of students in CHEM 145; 2) Students who have taken CHEM 145 at Sacramento State cannot take CHEM 245 for credit.

CHEM 160A. Structure and Function of Biological Molecules. 3 Units
Prerequisite(s): CHEM 124; MATH 26A or MATH 30 is recommended. Fall only.
Term Typically Offered: Fall only

The chemistry and biochemistry of amino acids, proteins, nucleic acids, lipids and carbohydrates. Also includes enzyme kinetics, the structure and function of biological membranes and discussion of some common laboratory methods. Lecture three hours.

CHEM 160B. Metabolism and Regulation of Biological Systems. 3 Units
Prerequisite(s): CHEM 160A or equivalent course; one year of organic chemistry. Spring only.
Term Typically Offered: Spring only

The bioenergetics and regulation of anaerobic and aerobic metabolic pathways. Major topics include glycolysis, Kreb's cycle, fatty acid and amino acid oxidation, lipid biosynthesis and photosynthesis. Particular emphasis is given to pathway regulation and integration. Lecture three hours.

CHEM 161. General Biochemistry. 3 Units
Prerequisite(s): CHEM 20 or CHEM 124; one year of biological science is recommended.
Term Typically Offered: Fall, Spring, Summer

Introduction to the structure and function of biological molecules (carbohydrates, lipids, proteins, nucleic acids, enzymes and hormones), enzyme kinetics, the structure and function of membranes, and the bioenergetics and regulation of major anaerobic and aerobic metabolic pathways.

CHEM 162. General Biochemistry Laboratory. 3 Units
Prerequisite(s): CHEM 31; CHEM 160A or CHEM 161 (either CHEM 160A or CHEM 161 may be taken concurrently); ENGL 20 or an equivalent second semester composition course.
Term Typically Offered: Fall, Spring

Introduction to fundamental laboratory techniques for the purification and analysis of biological molecules, including chromatographic separation of amino acids and proteins, electrophoretic separation of proteins and nucleic acids, enzyme kinetics, and basic bioinformatics. Discussion one hour, laboratory six hours.

CHEM 164. Advanced Biochemistry Laboratory. 3 Units
Prerequisite(s): CHEM 162 or equivalent; ENGL 20 or an equivalent second semester composition course.
Term Typically Offered: Fall, Spring

Capstone course which emphasizes biochemical laboratory experimental design and trouble-shooting skills. Common biochemistry laboratory techniques are applied in semester-long individual student projects. Discussion one hour, laboratory six hours.

CHEM 189A. Undergraduate Research. 1 - 3 Units
Prerequisite(s): ENGL 20 or equivalent
Term Typically Offered: Fall, Spring

Directed undergraduate research involving a project that requires use of chemical literature and experimental design. A comprehensive written report and/or scientific poster must be submitted to receive a final grade.
Note: Only three units of CHEM 189A-C may be applied toward the major requirement in chemistry for the BA or BS degrees.

CHEM 189B. Intermediate Undergraduate Research. 1 - 3 Units
Prerequisite(s): ENGL 20 or equivalent and CHEM 189A
Term Typically Offered: Fall, Spring

Continuing directed undergraduate research involving a project with emphasis on experimentation and data analysis. A comprehensive written report and/or scientific poster must be submitted to receive a final grade.
Note: Only three units of CHEM 189A-C may be applied toward the major requirement in chemistry for the BA or BS degrees.

CHEM 189C. Advanced Undergraduate Research. 1 - 3 Units
Prerequisite(s): ENGL 20 and CHEM 189B
Term Typically Offered: Fall, Spring

Culminating directed undergraduate research with emphasis on comprehensive data analysis and formulation of conclusions. A comprehensive written report and/or scientific poster must be submitted to receive a final grade.
Note: Only three units of CHEM 189A-C may be applied toward the major requirement in chemistry for the BA or BS degrees.

CHEM 189D. Culminating Advanced Undergraduate Research. 1 - 3 Units
Prerequisite(s): ENGL 20 and CHEM 189C
Term Typically Offered: Fall, Spring

Extension of culminating undergraduate research with emphasis on finalizing data analysis and writing experimental methods for potential publication. A comprehensive written report (if a scientific poster was completed in 189C) and/or scientific poster (if a written report was completed in 189C) must be submitted to receive a final grade. Credit/No Credit

CHEM 194. Chemistry-Related Work Experience. 6 - 12 Units
Prerequisite(s): Open only to upper division students and consent of Department Chair. Units may not be applied toward a major in Chemistry or Biochemistry.
Term Typically Offered: Fall, Spring

Supervised employment in a Chemistry related company or agency. Placement is arranged through the Department and the Cooperative Education Program office. Requires completion of a 3-6 month work assignment and a written report.
Credit/No Credit

CHEM 198. Senior Research. 3 Units
Prerequisite(s): One upper division chemistry laboratory class, ENGL 20 or an equivalent second semester composition course and instructor and department chair permission.
Term Typically Offered: Fall, Spring

The student will conduct an independent study of a chemical research topic that is based on experimental techniques or advanced computer modeling. Significant use of chemical literature and information retrieval is required. A well-written, comprehensive, and well-documented final report must be submitted to receive a final grade. A weekly seminar is required. Seminar one hour, laboratory activities are a minimum of six hours per week.

CHEM 198H. Chemistry Honors Thesis. 3 Units
Prerequisite(s): Open only to students who meet the Chemistry Honors Program criteria; CHEM 198 may be taken concurrently.
Term Typically Offered: Spring only

Completion of an undergraduate honors thesis and attendance at chemistry seminars. Students will develop a written thesis containing background, methodology, results, and discussion of an experimental or computational research project involving their own original data.

CHEM 200. Research Methods in Chemistry. 3 Units
Prerequisite(s): Must be a Chemistry graduate student or have instructor permission
Term Typically Offered: Fall, Spring

This course is designed to improve the ability of graduate students to research and interpret the chemical literature. Students work through a series of exercises in preparation for a major writing project such as a thesis proposal or a thesis chapter/section. Exercises include analysis of primary research articles, peer review of student writing samples, and presentation of scientific information. These activities will improve students' understanding of how scientific questions are developed and posed through proposals and dissemination of research results.

CHEM 220. Spectrometric Identification of Compounds. 3 Units
Term Typically Offered: Fall only

Theory, interpretation, and application of ultraviolet, infrared, nuclear magnetic resonance and mass spectra for the elucidation of organic compounds.

CHEM 226. Physical Organic Chemistry. 3 Units
Prerequisite(s): Enrollment in Chemistry master's degree program or instructor permission
Term Typically Offered: Fall, Spring

Study of mechanistic organic chemistry, the physical tools used to study reaction mechanisms, and the relationship between structure and reactivity. Topics include bonding theories, stereoelectronic effects, transition state theory, thermodynamics, kinetic analysis, isotope effects, linear free energy relationships, and application of frontier molecular orbital theory to examine reactions including pericyclic reactions.
Note: Students who have taken CHEM 126 at Sacramento State cannot take CHEM 226 for credit.

CHEM 230. Separation Methods in Chemistry. 3 Units
Term Typically Offered: Fall, Spring

Theoretical and practical aspects of separation sciences. Methods of separations that are included are liquid-liquid extraction and ion exchange, gas, and liquid chromatography. Lecture three hours.

CHEM 245. Applications of Computational Chemistry. 3 Units
Term Typically Offered: Fall only – odd years

Brief introduction/background in computational theory, with emphasis on chemical/biochemical applications. Demonstration/instruction of widely used modeling/instruction of software. Covering techniques including molecular mechanics, semi-imperical methods and 'ab initio' methods. Application of computational methods to thermodynamics, kinetics, spectra, electrochemistry, molecular properties. Lecture three hours.
Note: 1) CHEM 245 students will complete an additional research project beyond that expected of students in CHEM 145; 2) Students who have taken CHEM 145 at Sacramento State cannot take CHEM 245 for credit.

CHEM 250. Selected Topics in Chemistry. 3 Units
Prerequisite(s): Enrollment in MS Chemistry graduate program or instructor permission.
Term Typically Offered: Fall, Spring

Intensive coverage of one or more advanced topics in chemistry. A variety of learning/teaching methodologies may be employed including lecture, team projects, computer modeling, oral presentations and poster projects. May be team-taught.
Note: May be team-taught. May be repeated once for credit if topics are different.

CHEM 251. Topics in Interdisciplinary Chemistry. 3 Units
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.
Term Typically Offered: Fall, Spring

Lecture course focusing on interdisciplinary topics in chemistry and related fields. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 252. Topics in Synthetic Chemistry. 3 Units
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.
Term Typically Offered: Fall, Spring

Lecture course focusing on synthetic chemistry. Focus may be on biochemical, inorganic, or organic synthetic chemistry. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 253. Topics in Applied Chemistry. 3 Units
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.
Term Typically Offered: Fall, Spring

Lecture course focusing on applications of chemistry to a variety of fields. Areas of focus my include biological, environmental, materials, and pharmaceutical applications. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 254. Topics in Physical Chemistry. 3 Units
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.
Term Typically Offered: Fall, Spring

Lecture course focusing on topics in physical chemistry. Areas of focus may include content areas such as quantum mechanics, physical/organic or biophysical chemistry, an/or in-depth treatment of structure analysis and determination. Course activities may include literature review, individual and/or group oral presentations, independent research project. May be team-taught.

CHEM 255. Topics in Chemistry Education. 3 Units
Prerequisite(s): enrollment in Chemistry master's degree program or permission of instructor.
Term Typically Offered: Fall, Spring

Intensive coverage of one or more advanced topics in chemistry. A variety of learning/teaching methodologies may be employed, including lecture, team projects, computer modeling, oral presentations and poster projects. May be team-taught.

CHEM 260. Protein Biochemistry. 3 Units
Prerequisite(s): One semester of biochemistry.
Term Typically Offered: Fall, Spring

Provides a comprehensive review of proteins, with emphasis on protein structure and structure/function relationships. Topics include methods for structure determination, stability and folding, catalysis and denovo protein design. Topical examples from the literature, particularly those related to disease states, are used to illustrate fundamental principles of protein structure and function.

CHEM 261. Nucleic Acid Chemistry. 3 Units
Prerequisite(s): Undergraduate course in biochemistry.
Term Typically Offered: Fall, Spring

The recent biochemical literature will be used to study the structural, chemical, and physical properties of nucleic acids. Chemical mechanisms of mutation , protein-nucleic acid interactions, and DNA-drug interactions will be used to illustrate these properties.

CHEM 294. Seminar In Chemistry. 0.5 Units
Term Typically Offered: Fall, Spring

Student presentations of topics from the chemical literature; presentations of current chemistry topics from speakers in academia, industry, and government positions. May be repeated for a total of 2 units.
Note: Grade of C/NC will be based on attendance and successful presentation of a seminar.

Credit/No Credit

CHEM 296. Experimental Offerings in Chemistry. 1 Unit
Prerequisite(s): Instructor approval.
Term Typically Offered: Fall, Spring

Presentation and discussion of graduate student and faculty research and current literature with emphasis on critical evaluation of research design, data analysis and presentation techniques. One hour discussion.
Note: May be taken up to four times for credit, but only one unit may be applied to the University's requirement for 200-level courses.

Credit/No Credit

CHEM 299. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Graduate research. Approval must be obtained from a departmental committee and the faculty member under whom the work is to be conducted. Written report must be submitted before a final grade is given.
Credit/No Credit

CHEM 500. Culminating Experience. 2 - 4 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree. Should be taken in final semester prior to the completion of all requirements for the degree. Number of units of credit is determined by the candidate's master's degree advisory committee.

Child Development (CHDV)

CHDV 23. Assessment and Observation in Child Development. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or equivalent
Purposes of and methodological issues involved in assessing and observing early child development and learning in educational and developmental settings. Topics include selection of appropriate observation methods, survey of standardized measures, ethics, and interpretation and implications of assessment data for teaching and learning. Focus will be on becoming objective and unbiased observers, use of both informal and formal assessment tools, and principles of observational assessment research. Students will be required to complete up to 10 hours of observation outside of class. APA style will be introduced to support the development of practical and scholarly communication and writing.

CHDV 30. Human Development. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Interdisciplinary study of human development with practical observations. Addresses physical, socio-cultural, intellectual and emotional aspects of growth and development from conception to death. A variety of field experiences will be required.

CHDV 31. Adult Supervision and Mentoring In Early Childhood Programs. 2 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.
Term Typically Offered: Spring only

Study of research and exemplary practices in the supervision of early childhood teachers, other program staff, parents and volunteers. Content emphasizes adult learning.

CHDV 32. Administration and Supervision of Early Childhood Programs. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.
Term Typically Offered: Fall only

Basic issues, procedures and practices in the administration and supervision of public and private schools. Requires administrative supervisory fieldwork in an early childhood program.

CHDV 35. Child and Adolescent Development. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Examination of theory and research on cognitive, social and physical human development from conception through adolescence. Content will include data-collection techniques such as observation. Some course material will be applied to an analysis of elementary schooling.

CHDV 35F. Human Development and Elementary Field Experience. 2 Units
Corequisite(s): CHDV 35 may be taken concurrently.
Term Typically Offered: Fall, Spring

Directed field experiences in elementary school settings. Students are required to work at an elementary school and attend an on campus seminar. Includes the integration of student field experiences with theory and research in Human Development. Issues in learning, social development, adult career selection and schooling will be explored.
Note: Fieldwork includes 40 hours of service-learning at approved sites that are primarily off campus; students must complete clearance process (fingerprinting, TB tests) prior to placement.

Credit/No Credit

CHDV 44. Community Service Learning in Developmental and Educational Settings. 1 - 3 Units
Term Typically Offered: Fall, Spring

Designed to provide a range of service learning experiences where students apply their academic knowledge and skills in community-based settings. The community-based experiences will be combined with classroom activities designed to develop student understanding of topics related to their service activities such as tutoring reading and math, mentoring students from disadvantaged backgrounds, working with special populations of children.
Note: May be taken up to four times for credit (maximum 12 units of credit).

Credit/No Credit

CHDV 123. Qualitative Methods in Human Development. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or equivalent
Term Typically Offered: Fall, Spring

Introduction to qualitative research methods and their philosophical underpinnings. The focus will be on theoretical, methodological, and ethical issues in studying human learning and developmental processes from interpretive and social constructivist perspectives. Attention given to methodological strategies used to document and analyze learning and development in context. Strategies include participant-observation field notes, interviews, audio/video recordings, documents, and artifacts, with implications for theory, policy, and practice. APA style will be introduced to support the development of scholarly communication and writing.
Note: For CHDV majors, must be taken prior to completion of 90 units; completion of 45 total units credit.

CHDV 128. Combined Research Methods in Human Development. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.
Term Typically Offered: Fall, Spring, Summer

Introduction to qualitative and quantitative research methods and their philosophical underpinnings. Consider theoretical, methodological, and ethical issues in studying learning and developmental processes from interpretive and social constructivist perspectives. Think critically about the generation of research questions and hypotheses and design and conduct of research inquiry, with implications for theory, policy, and practice. Students learn to locate, understand, critique, conduct, and report research findings from multiple approaches and be introduced to APA style writing as a tool for scholarly communication.

CHDV 130. Parent Education. 3 Units
Term Typically Offered: Fall, Spring

Ways parent education may be conducted in Child Development programs to meet legislated requirements as well as parent needs. Attention will be given to parent education programs which serve children of different ages, diverse language and cultural backgrounds, and children with special needs. The rights and responsibilities of children, parents and teachers will be discussed. Discussion and participation in such classroom activities as panels, presentations, demonstrations and cooperative learning assignments.

CHDV 131. Language Development. 3 Units
Prerequisite(s): CHDV 133. CHDV 133 may be taken concurrently.
Term Typically Offered: Fall, Spring

Investigation of the development of language and its relationship to school learning, cognitive development and social development. Both linguistic and communication competence are included. Specific attention to second language acquisition and principles underlying effective instruction in linguistically diverse children.
Note: Topic areas will vary by semester, and the course may be repeated.

CHDV 132. Fieldwork in Child Development. 3 Units
Prerequisite(s): CHDV 123
Term Typically Offered: Fall, Spring

Directed field experiences in settings selected to meet students' experience and needs. Students are required to work at the selected setting and attend an on-campus seminar to explore developmental content and issues. Discussion will also focus on attention to professional development and ethics in community and educational settings working with children and families.
Note: Fieldwork includes 40 hours of service-learning at approved sites that are primarily off campus; students must complete clearance process (fingerprinting, TB tests) prior to placement; may be taken as a core requirement and repeated as an elective.

CHDV 133. Quantitative Methods in Human Development. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or equivalent
Term Typically Offered: Fall, Spring

Introduction to quantitative research methods in human development and their philosophical underpinnings. Major topics include the structures, design and conduct of research inquiry, and the generation of research questions and hypotheses, and collection of data. Emphasis will also be on engaging in quantitative research as well as increasing students' ability to locate, understand, critique, and report research findings. Students will be challenged to think critically about methodological issues in quantitative research. AP A style will be introduced to support the development of scholarly communication and writing.
Note: For CHDV majors, must be taken prior to completion of 90 units; completion of 45 total units credit.

CHDV 134. Development of Young Children as Mathematical and Scientific Thinkers. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent.
Term Typically Offered: Summer only

Theory, research, and practice in development of the child's thinking about mathematical and scientific concepts. Topics will include: (a) early emergence of conceptual reasoning connected with mathematics and science, (b) symbolic development and language of mathematics and science, (c) developmental sequences in mathematical and scientific thinking, (d) California Preschool Learning Foundations; (e) age-appropriate and culturally-relevant experiences to promote mathematic and scientific reasoning. Activities include lecture, discussions, presentations, cooperative learning assignments, and integration of course content with early childhood classroom practice.

CHDV 135. Crosscultural Child Development. 3 Units
Prerequisite(s): CHDV 133. CHDV 133 may be taken concurrently.
Term Typically Offered: Fall, Spring

Examination of the physical, socio-emotional and cognitive development in children from a crosscultural orientation. Will investigate cultural variables that influence child development from both inter- and intranational perspectives. Discussion of culturally universal and culturally specific behaviors, cognitions and experiences will be covered.

CHDV 136. Developmental Experiences, Methods and Curriculum. 3 Units
Prerequisite(s): CHDV 123. CHDV 123 may be taken concurrently.
Term Typically Offered: Fall, Spring

Examination of theory, research, and exemplary practices and programs for children through elementary school. Activities include discussions, presentations, demonstrations and cooperative learning assignments.

CHDV 137. Cognitive Development. 3 Units
Prerequisite(s): CHDV 133.
Corequisite(s): CHDV 137L.
Term Typically Offered: Fall, Spring

Cognitive development of children from conception through adolescence with consideration of biological and environmental influences. Lectures, discussions and participation in such classroom activities as presentations, demonstrations and cooperative learning assignments.
Note: Student must co-enroll in the corresponding section of CHDV 137L.

CHDV 137L. Cognitive Development Research Laboratory. 1 Unit
Prerequisite(s): CHDV 133.
Corequisite(s): CHDV 137.
Term Typically Offered: Fall, Spring

Laboratory course to complement CHDV 137. Emphasis placed on the observation, interaction, documentation, and using a scientific approach to learn about cognitive development. Classroom, field, and research experiences supporting the study of cognitive development.
Note: Student must co-enroll in the corresponding section of CHDV 137.

CHDV 138. Social and Emotional Development. 3 Units
Prerequisite(s): CHDV 133.
Corequisite(s): CHDV 138L.
Term Typically Offered: Fall, Spring

Study of the social and emotional development of children from conception through adolescence with consideration of biological and environmental influences. Lectures, discussions and participation in such classroom activities as presentations, demonstrations and cooperative learning assignments.
Note: Student must co-enroll in the corresponding section of CHDV 138L.

CHDV 138L. Social and Emotional Development Laboratory. 1 Unit
Prerequisite(s): CHDV 133.
Corequisite(s): CHDV 138.
Term Typically Offered: Fall, Spring

Laboratory course to complement CHDV 138. Emphasis placed on the nature of observation, interaction, and using a scientific approach to learn about social and emotional development. Classroom and field experiences related to the study of social and emotional development.
Note: Student must co-enroll in the corresponding section of CHDV 138.

CHDV 139. Educational Play: Theory and Practice. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent
Term Typically Offered: Summer only

Use of play as an educational vehicle in early childhood. Discovering how play helps children develop physically, socially, emotionally, cognitively and creatively through a variety of playful modes. Constructing appropriate developmental play materials and activities with emphasis on the active role of the adult in child's play. Activities include discussions, presentations, demonstrations and cooperative learning assignments.

CHDV 140. Coordination of Early Childhood Programs. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent
Term Typically Offered: Fall, Spring

Advanced methodology of coordinating early childhood programs, to include organization, staff development and community relations. Includes the functions of parents, aides, volunteers and varied early childhood organizational patterns.

CHDV 141. History of Childhood: International and Interdisciplinary Perspectives. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examination of what it means to be a child in today's world by comparing social constructions of childhood across the broad historical periods and in contrasting parts of the world. Exploration of cultural beliefs, values and practices of childhood in different historical, social, and economic contexts. Comparative approach provides a critical framework from which to analyze scholarly inquiry about how children develop in families, schools, and broader society. Course content will interest students from a broad array of majors.

CHDV 143. Mind and Brain in Developmental Context. 3 Units
Prerequisite(s): CHDV 30 or 35; Introductory Biology.
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring, Summer

Investigation of the biological processes underlying child development, from conception through adolescence. Emphasis will be on the genetic, neurological, and endocrine processes related to cognition, social, and emotional development. Students will explore the bidirectional nature of psychobiological processes, with specific emphasis on the psychobiological mechanisms underlying the transaction between cultural, educational, and social-emotional related to educational, and mental and physical health functioning.

CHDV 144. Community Service Learning in Developmental and Educational Settings. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Designed to provide a range of service learning experiences where students apply their academic knowledge and skills in community-based settings. The community-based experiences will be combined with classroom activities designed to develop student understanding of topics related to their service activities such as tutoring reading and math, mentoring students from disadvantaged backgrounds, working with special populations of children.
Note: May be taken up to four times for credit (maximum 12 units of credit).

Credit/No Credit

CHDV 145. Controversial Issues in Childhood Development, Education, and Social Policy. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Discussion-based examination of controversial issues linking development, education, and cultural practice in which scholarly inquiry has substantial implications for social policy. Specific topics vary by semester and include topics of both historical relevance and contemporary debates. Content relevant to multiple disciplines including issues such as adolescent risk behavior, bilingual education, brain-base pedagogy, child care, children and the law, cultural diversity, developmental theory and educational practice, gender, literacy practices, motivation, parenting styles, school violence, special education, standardized testing, and technological change.

CHDV 150A. Early Literacy Development in First and Second Language. 2 Units
Prerequisite(s): CHDV 123 or CHDV 133. CHDV 123 or CHDV 133 may be taken concurrently.
Corequisite(s): CHDV 150B.
Term Typically Offered: Summer only

Students will become familiar with language and emergent litercy of young children from birth to eight. An overview of research-based developmental progression will be emphasized as it relates to the learning foundations for language and literacy. Other focal points will be home-school connections and cultural influences on literary development. Assessment topics, including observation and other developmental strategies will be intergrated. An emphasis on increasing students' ability to connect theoretical understanding to the practice offered in CHDV 150B.

CHDV 150B. Early Literacy Development in First and Second Language Practicum. 1 Unit
Prerequisite(s): CHDV 123 or CHDV 133. CHDV 123 or CHDV 133 may be taken concurrently.
Corequisite(s): CHDV 150B.
Term Typically Offered: Summer only

The practicum experience (20 hours) will provide students with the application of course content material learned in CHDV 150A. Students will observe and validate multiple experiences in which first and second language learners learn language and literacy succesfully. Factors affecting language and literacy development will be addressed.
Credit/No Credit

CHDV 153. Apprenticeship in Advanced Child Development. 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Faculty mentors will meet with graduate and undergraduate apprentices individually or in small groups for guided discussions of assigned readings and/or research data analysis/collection endeavors.
Prerequisite: Instructor permission.
Note: Readings will depend on the specific mentor's research or scholarly interest; May be repeated up to four times for 12 units of credit, with a limit of 6 units applied towards the CHDV major requirements.

CHDV 154. Issues in Parenting. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or FACS 52.
Term Typically Offered: Fall, Spring, Summer

Survey of historical and contemporary attitudes toward parenting. Review of research on child-rearing and parent-child relationships. Use of case studies to explore the influence of personality, developmental stage, family structure, ethnic and cultural factors on parenting. Lecture, Case Study.
Cross-listed: FACS 154; only one may be counted for credit.

CHDV 157. Infant and Toddler: Development and Care. 3 Units
Prerequisite(s): One of the following: CHDV 30 or CHDV 35, FACS 50, PSYC 148, or SWRK 125A.
Term Typically Offered: Fall, Spring

Research theory and practice are examined in relation to each area of infant and toddler development (conception through 24 months): Physical, social, emotional, cognitive, and perceptual. Individual differences and needs are stressed. Issues pertinent to individual and group care will be covered. Activities include lecture, discussion, and observations.
Cross Listed: FACS 157; only one may be counted for credit.

CHDV 194. Cooperative Education Experience. 3 Units
Prerequisite(s): Completion of 60 units total credit and instructor permission. May be taken four times for a maximum of 12 units credit.
Term Typically Offered: Fall, Spring

Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in the student's major field of study and academic credit. Students receive supervised employment in school districts, state and community agencies, companies and other appropriate settings. Requires regular meetings with faculty supervisor, completion of field study assignment, evaluation by field-based supervisor, and a written final report.
Credit/No Credit

CHDV 196A. Approaches to Research Methods in Child Development A. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 or equivalent; completion of 45 total units; Must be taken prior to completion of 90 units.
Term Typically Offered: Fall, Spring

This course examines methodological issues involved in assessment, observation, analysis, and design in the field of child development. Topics include the research process. APA style writing, ethics, design and methods, use assessment tools, qualitative and quantitative data analysis and interpretation. The focus will be on becoming critical consumers of research and developing the skills of scientific injury.
Note: First course in a series. 196B must be taken in the semester immediately following completion of CHDV 196A.

CHDV 196B. Approaches to Research Methods in Child Development B. 3 Units
Prerequisite(s): CHDV 196A.
Term Typically Offered: Fall, Spring

Two semester sequence of instruction that examines methodological issues involved in assessment, observation, research design, and analytical concepts involved in the field of child and adolescent development. Topics include the research process, APA style writing, ethics, design and methods, use assessment tools, qualitative and quantitative data analysis and interpretation. The focus will be on becoming critical consumers of research and developing the skills for scientific inquiry.
Note: Must be taken prior to 90 units.

CHDV 196U. Child and Adolescent Development in Context. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35 (or equivalent).
Term Typically Offered: Fall, Spring

Investigation of the dynamic nature of child and adolescent development in the context of families, schools, and community. Students will gain an understanding of how issues in these contexts influence development and explore the dynamic relationships between contexts in promoting development. Attention will be paid to socioeconomic status as a context as well as the role of gender, race and ethnicity within contexts as they relate to development. Students will examine practices that strengthen collaboration between families, schools and community.

CHDV 196X. Guided Human Development Experience Around the World. 3 Units
Prerequisite(s): CHDV 30 or CHDV 35, and 2.75 GPA, or instructor permission. Field trip.
Term Typically Offered: Summer only

Course provides a range of guided learning experiences outside the United States, allowing students to experience human development more broadly to promote a global perspective. Experiences include, but are not limited to, observation, fieldwork, data gathering, or other modes of interaction with the people and culture in the country. Students will reflect on experiences in writing and in discussion in light of readings on developmental theory and research.
Note: Course is credit/no credit. It may be taken twice with different instructors.

Credit/No Credit

CHDV 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects designed especially for students capable of independent study. Admission by written approval of the instructor and Department Chair.
Credit/No Credit

CHDV 200. Proseminar in Child Development. 3 Units
Prerequisite(s): Admission to MA Child Development program or instructor permission.
Term Typically Offered: Fall only

Orientation to advanced scholarship in human development with a focus on understanding and evaluating current directions in developmental research. Developmental research methods and analytical strategies will be explored.

CHDV 210. Seminar in Social Development. 3 Units
Term Typically Offered: Fall, Spring

Advanced seminar focusing on theoretical and empirical readings covering topics in social/emotional development. Potential topics may include social and emotional development of children from conception through adolescence with consideration of biological and environmental influences.

CHDV 211. Seminar in Cognitive Development. 3 Units
Prerequisite(s): Admission to MA program or instructor permission.
Term Typically Offered: Fall, Spring

Advanced developmental seminar focusing on theoretical and empirical readings covering topics in cognitive development. Specific topics will be related to cognitive development of children from conception through adolescence with consideration of biological and environmental influences.

CHDV 242. Theoretical Approaches to Development. 3 Units
Prerequisite(s): CHDV 137 or CHDV 138. Graduate standing or instructor permission.
Term Typically Offered: Fall only

An in-depth examination of theoretical approaches to various domains of human development. Content includes current and historical developmental theory and application of theory to developmental research. Critical thinking skills and scholarly writing will be emphasized.
Note: Graduate Writing Intensive course

CHDV 244. Community Service Learning in Developmental and Educational Settings. 1 - 3 Units
Term Typically Offered: Fall, Spring

Designed to provide a range of service learning experiences where students apply their academic knowledge and skills in community-based settings. The community-based experiences will be combined with classroom activities designed to develop student understanding of topics related to their service activities such as tutoring reading and math, mentoring students from disadvantaged backgrounds, working with special populations of children.
Note: May be taken up to four times for credit (maximum 12 units of credit).

Credit/No Credit

CHDV 245. Selected Topics in Developmental Theory. 3 - 6 Units
Prerequisite(s): Admission to MA program or instructor permission.
Term Typically Offered: Fall, Spring

In-depth study of selected topics in human development. Topics vary with each offering. Content includes theory and research on psychological dimensions of human development in various educational and community settings. May be repeated once for credit with different instructor.
Note: May be repeated twice as long as topics and instructors differ.

CHDV 246. Motivation and Learning in Children. 3 Units
Prerequisite(s): Graduate standing, or instructor permission.
Term Typically Offered: Fall, Spring

Sources of and developmental changes in motivation, including biological predispositions, critical life events, individual differences, and social, cultural and educational experiences will be examined. Students will participate in a group research effort on motivation and educational practice.

CHDV 247. Theoretical and Applied Perspectives on Cross-cultural Development. 3 Units
Prerequisite(s): CHDV 200 or instructor permission. CHDV 200 may be taken concurrently.
Term Typically Offered: Fall, Spring

The cultural basis of human development through an in-depth examination of the socio-emotional, cognitive, language and gender development of children from infancy through adolescence within and across different cultures and communities. Theory, methods, and research of cross-cultural investigations will be considered and applications of course material to educational and community settings will be explored and analyzed.

CHDV 248. Curriculum and Instruction. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Spring

Advanced study of the sociocultural influences on curriculum development. Research, theory, and curricular practices will be analyzed, evaluated and applied to a variety of preschool and primary grade settings.

CHDV 249. Language Processes in Development. 3 Units
Prerequisite(s): Admission to MA program or instructor permission.
Term Typically Offered: Fall, Spring

Language is an important cognitive and communicative tool that promotes learning. Through an integrative approach to language and cognitive development, students will examine how children learn through language. Students will have practical experience in collecting and analyzing children's language learning in educational settings.

CHDV 250. Quantitative Research Methods. 3 Units
Prerequisite(s): CHDV 133; admission to the MA program or instructor permission.
Term Typically Offered: Fall, Spring

Critical analysis of quantitative research methods used in the study of development. Core issues in studying development will be discussed as they relate to families and societal issues. Major topics include the philosophical underpinnings of research design, various research methods of inquiry, ethical issues, and the development of research questions and data collection. Critical thinking and writing skills will be emphasized.

CHDV 253. Apprenticeship in Advanced Child Development. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Faculty mentors will meet with graduate and undergraduate apprentices individually or in small groups for guided discussions of assigned readings and/or research data analysis/collection endeavors.
Note: Readings will depend on the specific mentor's research or scholarly interest; May be repeated up to 4 times for credit.

CHDV 258. Qualitative Research Methods. 3 Units
Term Typically Offered: Fall, Spring

Introduction to qualitative research methods for the study of learning and development. Includes: a) discussions of theoretical perspectives underlying this methodological approach; b) techniques for and issues in gathering, analyzing, and recording qualitative data; and c) strategies for using and reporting qualitative data. Students will write initial thesis/project design and human subjects proposal for formal approval.

CHDV 290. Seminar for Culminating Experience. 3 Units
Prerequisite(s): Advancement to candidacy; completion of at least 20 units of course work towards the MA, instructor permission.
Term Typically Offered: Fall, Spring

Seminar to focus on topics/elements/expectations to be included in the culminating experience: defining and narrowing a topic for study; abstract writing; differentiation of primary/secondary source of evidence; development of organizational schemes for a literature review; database literature searches; APA format requirements; time management, range and breadth of evidence for a comprehensive review; connecting the review and project/thesis; writing style and quality; revisions and critical feedback; social/psychological dimensions of thesis/project process; data analysis and statistics help on campus for thesis.
Credit/No Credit

CHDV 292. Culminating Seminar for Exam Option. 3 Units
Prerequisite(s): Completion of all foundation course requirements for MA program (CHDV 200A, CHDV 200B, CHDV 242, CHDV 247, CHDV 250) advancement to candidacy, or instructor permission.
Term Typically Offered: Fall, Spring

Seminar to focus on topics/elements/expectations for the exam option culminating experience: test preparation and tips, exam writing, practice exam questions, time management, and community building with other students. Students will complete reading and writing assignments related to each exam area and prepare for an exam question related to an approved elective topic of their choice. Students will submit an exam petition to be reviewed and approved by the departmental exam committee.
Credit/No Credit

CHDV 295. Practicum in Child Development. 1 - 3 Units
Prerequisite(s): Graduate standing, or instructor permission.
Term Typically Offered: Fall, Spring

Directed field based experience in preschool, elementary or other community based settings serving children from infancy through adolescence and their families. Designed to provide students the opportunity to develop professional skills and understandings in applied settings or explore career development opportunities with particular emphasis on leadership or administrative skills and knowledge.
Note: Students are required to work at an instructor-approved field site consistent with their career goals and interests and attend an on campus seminar.

CHDV 299. Special Problems. 1 - 3 Units
Prerequisite(s): Open only to upper division and graduate students with consent of faculty advisor and Department Chair.
Term Typically Offered: Fall, Spring

Individual projects at graduate level designed especially for students capable of independent study. Departmental petition, signed by instructor with whom student will be working and department chair, required.
Credit/No Credit

CHDV 504. Culminating Experience in Child Development: Thesis or Project. 3 Units
Prerequisite(s): Admission to MA, Child Development program or instructor permission.
Term Typically Offered: Fall, Spring

Guidance toward completion of thesis or project option for the MA, Child Development program. Credit is given upon successful completion of a thesis, project, or other approved culminating experience. Open only to the graduate student who has been advanced to candidacy for the Master's degree and has secured the permission of his/her faculty advisor and the Department Chair one full semester prior to registration.

CHDV 505. Culminating Experience in Child Development: Exam Option. 3 Units
Prerequisite(s): Admission to and completion of all course requirements for the MA, Child Development program, CHDV 292 or instructor permission.
Term Typically Offered: Fall, Spring

Guidance in ongoing preparation for the examination option for the MA, Child Development program. Credit is given upon successful completion of the examination option for the culminating experience. Open only to the graduate student who has completed all other course requirements, has been advanced to candidacy for the Master's degree, and has secured the permission of the Department Chair one full semester prior to registration.
Credit/No Credit

Chinese (CHIN)

CHIN 1A. Elementary Mandarin. 5 Units
Term Typically Offered: Fall only

Beginning Mandarin with emphasis on listening comprehension, speaking, grammar structure and character writing. The relationship between language and culture will also be emphasized. Includes an introduction to elements of Chinese culture that pertain to language, such as mode of thinking, inter-human relations, and aesthetic expressions.

CHIN 1B. Elementary Mandarin. 5 Units
Prerequisite(s): CHIN 1A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Spring only

Continuation of CHIN 1A, with growing emphasis on reading, writing, and listening. Chinese cultural patterns as reflected in the language, such as societal values and views of the world, will continue to be emphasized.

CHIN 2A. Intermediate Mandarin. 4 Units
Prerequisite(s): CHIN 1B or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall only

Intermediate Mandarin on the further development of reading, speaking, and writing skills. Emphasis will be placed on the shift from romanized script to Chinese characters. Introduction will also be made to simple prose reading. Meets the Foreign Language Graduation Proficiency Requirement.

CHIN 2B. Intermediate Mandarin. 4 Units
Prerequisite(s): CHIN 2A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Spring only

Continuation of CHIN 2A designed to further the development of reading, speaking and writing skills at the intermediate to intermediate-high level.

CHIN 110. Advanced Mandarin: Modern Chinese Fiction. 3 Units
Prerequisite(s): CHIN 2B or instructor permission.
Term Typically Offered: Fall, Spring

Taught exclusively in Mandarin as an introduction to Modern Chinese Fiction through a careful study of representative works from both the People's Republic of China and Taiwan.

CHIN 120. Chinese Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Presentation of formative cultural achievements of China through language and literature with a view to understanding present-day popular Chinese culture. A general survey conducted in English for students who are taking Chinese language courses and others who want a deeper appreciation of this important non-Western culture.

CHIN 130. Introduction to Classical and Literary Chinese. 3 Units
Prerequisite(s): CHIN 2A or equivalent
The classical Chinese language, also known as literary Chinese, is the doorway into the fascinating world of Chinese culture. It has been the primary form of communication for at least three thousand years. Although Classical Chinese uses many of the same characters as modern Mandarin Chinese, the syntax and diction are quite different. In this course, we will study the language through readings in early philosophical, historical, and poetic texts.

CHIN 150. Survey of Chinese Literature. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Spring only

Introduction to Chinese literature from classical times to the present. The various forms of Chinese prose, poetry, and novel will be surveyed through the selective reading of representative works (in English translation). Class is conducted in English.

CHIN 195. Fieldwork-Tutoring. 1 - 3 Units
Prerequisite(s): Advanced level fluency and instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division students in Mandarin or Cantonese. 3 hours of tutoring per week for each unit. May be taken for credit more than once. Credit/No Credit

CHIN 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on independent study. Admission requires the approval of the instructor by whom the work is to be supervised. Credit/No Credit

Civil Engineering (CE)

CE 1. Civil Engineering Seminar. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduces students to civil engineering as a profession. Topics include the technical disciplines (environmental, geotechnical, structural, transportation, and water resources), the role of civil engineers in planning, constructing and operating infrastructure, and professional responsibilities such as licensure and ethics. Case studies are used to explore both technical and nontechnical aspects of civil engineering projects such as design and environmental constraints, constructability, and social and political issues.

CE 4. Engineering Graphics and CAD. 2 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

In-depth graphic analysis and solution of typical three dimensional space problems by applying the principles of orthogonal projection. Fundamentals of interactive computer aided design and drafting. Lecture one hour; laboratory three hours.

CE 9. Plane and Topographic Surveying. 2 Units
Prerequisite(s): MATH 30 and CE 9L. CE 9L may be taken concurrently. MATH 30 may be taken concurrently. Not currently enrolled in CE 9.
Term Typically Offered: Fall, Spring

Methods for the measurement of distance, direction, angles and elevations. Computational methods for locating points, closing traverses and determining areas and earthwork volumes. Horizontal and vertical curves. Introduction to legal aspects of surveying, geodetic surveys, maps, boundary surveys and new technologies used in surveying. Lecture two hours.

CE 9L. Plane and Topographic Surveying Laboratory. 1 Unit
Prerequisite(s): MATH 30 and CE 9. CE 9 may be taken concurrently. MATH 30 may be taken concurrently. Not currently enrolled in CE 9L.
Term Typically Offered: Fall, Spring, Summer

Laboratory course that supports CE 9. Use of surveying instruments and measurement techniques in field setting. Laboratory three hours.

CE 100. Engineering Geology. 2 Units
Prerequisite(s): ENGR 112; may be taken concurrently.
Term Typically Offered: Fall, Spring

Soil and rock mechanics and their relations to geological features influencing design, construction and maintenance of engineering projects. Lectures and field problems.

CE 101. Computer Applications in Civil Engineering. 3 Units
Prerequisite(s): ENGR 30 and CE 4; CE 4 may be taken concurrently.
Term Typically Offered: Fall, Spring

Development of programming- and algorithm-based problem-solving skills in civil engineering using modern programming and scripting languages and scientific computing programs. Application to numerical methods, data science, and visualization.

CE 130. Water Resources Engineering. 3 Units
Prerequisite(s): CE 1, CE 101, ENGR 115, ENGR 132, CE 130L. CE 130L may be taken concurrently. Not currently enrolled in CE 130.
Term Typically Offered: Fall, Spring

Hydrologic and hydraulic fundamentals which are common to water resources projects; introduction to reservoirs, dams, pipelines, channels, hydraulic machinery, ground water, water rights, statistical analysis, engineering economy applications, and water resources planning.

CE 130L. Hydraulics Laboratory. 1 Unit
Prerequisite(s): CE 101 and CE 130. CE 130 may be taken concurrently. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 130L.
Term Typically Offered: Fall, Spring

Laboratory experiments relating the principles of fluid mechanics to real fluid flow. Laboratory three hours.

CE 131. Hydrology. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 131.
Term Typically Offered: Fall only

Introduction to surface water hydrology for engineering. Evapotranspiration and infiltration prediction. Precipitation analysis, hydrograph and flood routing applications for civil engineering. Statistical applications in hydrology.

CE 132. Groundwater Engineering. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 132.
Term Typically Offered: Spring only

Occurrence and movement of groundwater. Groundwater principles, groundwater flow, Darcy's Law, solutions of steady and unsteady flow problems. Confined and unconfined aquifers, leaky aquifers, pumping test design, and groundwater management.

CE 133. Design of Urban Water and Sewer Systems. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 133.
Term Typically Offered: Fall only

Hydraulic design of water distribution and sewerage systems. Computer-assisted pipe network analysis. Analysis of pump systems. Pump station design. Other selected topics.

CE 134. Open Channel Hydraulics. 3 Units
Prerequisite(s): CE 130 and CE 130L. Not currently enrolled in CE 134. .
Term Typically Offered: Spring only

Civil engineering design problems in steady, uniform, gradually and rapidly varied open channel flow. Hydraulic analysis in structures, transitions, culverts, weirs and spillways. Channel design including roughness for subcritical and supercritical flow. Prediction of water surface profiles via simulation software.

CE 140. Transportation Engineering. 3 Units
Prerequisite(s): Complete CE 1, CE 9, CE 9L, CE 101, ENGR 115, and CE 140L. CE 140L may be taken concurrently. Not currently enrolled in CE 140.
Term Typically Offered: Fall, Spring

Introduction to the fundamental topics in Transportation Engineering. Focus on roadway geometric design, layout considerations, pavement materials and design, traffic operations and analysis.

CE 140L. Transportation Engineering Laboratory. 1 Unit
Prerequisite(s): Complete CE 1, CE 9, CE 9L, CE 101, ENGR 115, and CE 140. CE 140 may be taken concurrently. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 140L.
Term Typically Offered: Fall, Spring

Laboratory course that supports CE 140. Activities include speed survey and safety assessment, analysis of freeway level of service, analysis of intersection delay and level of service, roadway geometry design, and pavement design using field measurements, online datasets, and state-of-the-practice software. Laboratory three hours.
Note: This course requires safety training. This course requires personal protective equipment (PPE).

CE 141. Traffic Analysis and Design. 3 Units
Prerequisite(s): CE 140 and CE 140L. Not currently enrolled in CE 141.
Term Typically Offered: Spring only

Introduction to the fundamental principles of traffic operations, traffic data collection methods, intersection control, signal design and analysis techniques. Methods and software for designing and optimizing signalized and unsignalized intersection operation.

CE 142. Transportation Systems. 3 Units
Prerequisite(s): CE 140. Not currently enrolled in CE 142.
Term Typically Offered: Fall only

Transportation systems evaluation and management. Focus on transportation planning methods, including data analysis, estimation of future demand, evaluation of travel demand impacts on existing systems, and transportation system decision-making.

CE 146. Civil Engineering Professional Practice. 3 Units
Prerequisite(s): CE 1A and ENGR 30; GWAR; CE 1A may be taken concurrently.
Corequisite(s): CE 1A.
Term Typically Offered: Fall, Spring

Introduction to the legal and business environment of professional engineering practice, including legal responsibilities of professionals, ethics, risk and liability, types and use of contracts, specifications, the construction bid process, and environmental responsibilities. Elements of engineering organizations such as business economics, human resources, and project management.

CE 150. Principles of Environmental Engineering. 2 Units
Prerequisite(s): CHEM 1E or CHEM 1A, ENGR 115, CE 1, CE 101, and CE 150L. CE 150L may be taken concurrently. CE 101 may be taken concurrently. Not currently enrolled in CE 150.
Term Typically Offered: Fall, Spring

Introduction to principles of environmental quality management. Physical and chemical principles affecting environmental quality including equilibrium and kinetics. Water quality parameters, their importance, and natural processes that affect them. Application of thermodynamic principles to environmental systems.

CE 150B. Environmental Engineering Practice. 2 Units
Prerequisite(s): CE 150. Not currently enrolled in CE 150B.
Term Typically Offered: Fall, Spring

Introduction to environmental engineering professional practices. Water and wastewater treatment processes. Solid waste management. Air quality parameters and management. Sustainability.

CE 150L. Environmental Engineering Laboratory. 1 Unit
Prerequisite(s): CHEM 1E or CHEM 1A, ENGR 115, CE 1, CE 101, and CE 150. CE 150 may be taken concurrently. CE 101 may be taken concurrently. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 150L.
Term Typically Offered: Fall, Spring

This is the laboratory course that supports CE 150. Activities include water quality testing and computer modeling. Laboratory three hours.

CE 151. Introduction to GIS in Civil Engineering. 3 Units
Prerequisite(s): ENGR 115, CE 9, and either CE 137, CE 147, CE 170A, or CE 171A.
Term Typically Offered: Fall only

Fundamental geographic information system (GIS) concepts; GIS data acquisition and analysis; GIS analytical methods. Lab exercises with GIS software used to introduce students to typical uses of GIS in civil engineering. This course may be paired with the graduate-level course GIS Applications in Civil Engineering. Lecture two hours; lab three hours.

CE 153. Design of Water Quality Control Processes. 3 Units
Prerequisite(s): CE 150B and ENGR 132. Not currently enrolled in CE 153.
Term Typically Offered: Spring only

Analysis and design of selected physical, chemical, and biological facilities for water purification and wastewater treatment. Emphasis is on design based on loading factors and integration of unit processes into treatment systems.

CE 156. Geoenvironmental Engineering. 3 Units
Prerequisite(s): CE 150B and CE 170; CE 150B may be taken concurrently. Not currently enrolled in CE 156.
Term Typically Offered: Not offered

Equilibrium distribution of contaminants among air, water and solid phases of soil systems; analysis and modeling of soil vapor extraction (SVE), pump and treat, and soil washing systems; movement of gasses in landfills; infiltration through landfill cover; geosynthetic liner systems; hazardous waste containment systems.

CE 160. Introduction to Structural Analysis. 3 Units
Prerequisite(s): CE 1, CE 101, ENGR 112, and (MATH 35 or MATH 100). Not currently enrolled in CE 160.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Analysis of statically determinate and indeterminate beams, frames, and trusses. Includes energy principles, flexibility and stiffness analyses, and influence lines. Computers are used to aid in the solution of complex structural problems.

CE 160L. Structural Laboratory. 1 Unit
Prerequisite(s): CE 101 and ENGR 112. WPJ score of 70+ or equivalent. Not currently enrolled in CE 160L.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Introduction to the principles of structural analysis and design by testing of structural elements. Experimental verification of the assumptions of strength of materials. Introduction to laboratory techniques. Laboratory three hours.
Note: This course requires safety training. This course requires personal protective equipment (PPE).

CE 163. Structural Steel Design. 3 Units
Prerequisite(s): CE 160. Not currently enrolled in CE 163.
Term Typically Offered: Fall, Spring

Theory and practice in design of structural steel members and connections using current design specifications. Design of tension and compression members, laterally supported and unsupported beams, beam-columns, and bolted and welded connections.

CE 164. Reinforced Concrete Design. 3 Units
Prerequisite(s): CE 160 and CE 160L. CE 160L may be taken concurrently. Not currently enrolled in CE 164.
Term Typically Offered: Fall, Spring

Introduction to reinforced concrete design according to American Concrete Institute (ACI) 318 Building Code, including: design and safety concepts; loads and load path; structural systems; material properties; flexural analysis and design of reinforced concrete beams and one-way slabs; development of reinforcement; serviceability; shear; columns; and other topics.

CE 165. Masonry Design. 3 Units
Prerequisite(s): CE 160. Not currently enrolled in CE 165
Term Typically Offered: Spring only

History of masonry. Masonry materials. Masonry as a structural material. Design of masonry beams, concentrically and eccentrically loaded columns, walls for vertical and lateral loading including effects of wind and seismic forces. Design of a small building for wind and seismic loading including torsional effects.

CE 166. Seismic Behavior of Structures. 3 Units
Prerequisite(s): CE 101, CE 160, and ENGR 110. Not currently enrolled in CE 166
Term Typically Offered: Fall, Spring

Analyzes simple structures' response to dynamic loads with emphasis on response to earthquake ground motion. Introduction to multi-story buildings dynamics. Modal and approximate analyses of earthquake response. Dynamic analysis and building code procedures.

CE 168. Prestressed Concrete Design. 3 Units
Prerequisite(s): CE 160 and CE 164. CE 164 may be taken concurrently. Not currently enrolled in CE 168.
Term Typically Offered: Fall only – even years

Introduction to prestressed concrete design, focusing on bridges and buildings. Topics include: basic concepts; technology for fabrication and construction; material properties; flexural analysis and design for non-composite and composite beams; development of strands; prestress losses; camber and deflections; shear; and other topics. Design conforming to American Concrete Institute (ACI) 318 Building Code or AASHTO LRFD Bridge Design Specifications is emphasized, as appropriate.

CE 169. Timber Design. 3 Units
Prerequisite(s): CE 160. Not currently enrolled in CE 169.
Term Typically Offered: Fall only

Wood as a structural material. Design of sawn and glulam beams, concentrically and eccentrically loaded columns, shear walls, flexible diaphragms and connections for vertical and lateral loading including effects of wind and seismic forces.

CE 170. Principles of Environmental Engineering. 4 Units
Prerequisite(s): CHEM 1E or CHEM 1A, CE 1A, CE 101, CE 146, ENGR 115; CE 146 may be taken concurrently
Term Typically Offered: Fall, Spring

Introduction to the principles and practices of environmental quality management. Physical and chemical principles affecting environmental quality. Water and air quality parameters, their importance, and natural processes that affect them. Introduction to treatment processes and waste management. Environmental ethics. Lecture three hours. Laboratory three hours.

CE 170C. Soil Mechanics. 3 Units
Prerequisite(s): CE 1, CE 100, CE 101, ENGR 112, and CE 170L. CE 170L may be taken concurrently. Not currently enrolled in CE 170C.
Term Typically Offered: Fall, Spring

Composition and properties of soils; soil classification; soil compaction; soil-water interaction, including permeability and seepage analyses; soil stresses; soil compressibility, consolidation, and settlement analysis; soil shear strength.

CE 170L. Soil Mechanics Laboratory. 1 Unit
Prerequisite(s): Complete CE 1, CE 100, CE 101, ENGR 112, CE 170C. CE 170C may be taken concurrently. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 170L.
Term Typically Offered: Fall, Spring

Laboratory course that supports CE 170C. Activities include soil testing and analysis of geotechnical site investigation data. Laboratory three hours.

CE 171. Soil Mechanics and Foundation Engineering. 3 Units
Prerequisite(s): CE 170 and CE 170L. Not currently enrolled in CE 171.
Term Typically Offered: Spring only

Lateral earth pressures and principles of retaining wall design; slope stability analysis and principles of slope stabilization design; ultimate bearing capacity of soils, allowable bearing pressures and settlement of structures; principles of foundation design including shallow foundations and deep foundations.

CE 175. Geotechnical Earthquake Engineering. 3 Units
Prerequisite(s): CE 170 and CE 170L. Not currently enrolled in CE 175.
Term Typically Offered: Fall only

Introduction to seismology and seismic hazard analysis; determination of building code design loads; prediction of soil-site effects; evaluation of liquefaction triggering, cyclic softening and associated consequences; introduction to mitigation techniques for liquefaction and ground failure hazards.

CE 182. Introduction to GIS in Civil Engineering. 3 Units
Prerequisite(s): ENGR 115, CE 9, CE 9L, and (CE 130 or CE 140 or CE 150 or CE 170). Not currently enrolled in CE 182.
Term Typically Offered: Fall only

Fundamental geographic information system (GIS) concepts; GIS data acquisition and analysis; GIS analytical methods. Lab exercises with GIS software used to introduce students to typical uses of GIS in civil engineering. This course may be paired with the graduate-level course GIS Applications in Civil Engineering. Lecture two hours; laboratory three hours.

CE 190A. Civil Engineering Project Skills. 3 Units
Prerequisite(s): CE 130 or CE 140 or CE 150 or CE 160 or CE 170. WPJ Score of 70+ or equivalent. Not currently enrolled in CE 190A.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to professional engineering practice through case studies of existing projects, including estimating, scheduling, and specifications. Evaluation of design alternatives for engineering projects using principles of engineering economy and cost benefit analysis. Engineering ethics and professional responsibilities.
Note: This course is intended to be taken in the final year of study before taking CE 191.

CE 191. Senior Project. 3 Units
Prerequisite(s): CE 190
Term Typically Offered: Fall, Spring

Culminating degree requirement. Completion of a conceptual design and evaluation of alternatives under realistic constraints for proposed infrastructure projects. Students work in teams with practicing professionals providing mentoring. Draws upon full educational experience to date. Lecture two hours. Laboratory three hours.
Note: This course must be taken in the final semester.

CE 194. Career Development in Civil Engineering. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Designed for Civil Engineering students making career decisions. Instruction will include effective career planning strategies and techniques including skill assessments, employment search strategy, goal setting, time management, interview techniques and resume writing. Lecture one hour.
Note: Units earned cannot be used to satisfy major requirements. Cross Listed: ENGR 194, EEE194

Credit/No Credit

CE 195. Fieldwork in Civil Engineering. 1 - 3 Units
Prerequisite(s): Petition approval by supervising faculty member and Department chair.
Term Typically Offered: Fall, Spring

Supervised work experience in civil engineering with public agencies or firms in the industry.
Note: May be repeated for credit.

Credit/No Credit

CE 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science.
Note: Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit

CE 196H. Concrete Technology. 3 Units
Prerequisite(s): ENGR 112.
Term Typically Offered: Spring only

History of portland cement, production, hydration, aggregates, supplementary cementitious materials, chemical admixtures, fresh and hardened concrete properties, concrete mixture design, and concrete construction. Introduction to concrete durability, concrete repair, and advances in concrete technology.

CE 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open to students judged capable of carrying out individual work. Admission requires departmental approval and sponsorship of a supervising faculty member. Cannot be used as a technical elective in the major. Consult the CE Department for admission procedures and other requirements. May be repeated.

CE 199E. Independent Study Technical Elective. 3 Units
Prerequisite(s): GPA of 2.5 or greater in the upper division courses of the major; grade of 'B' or better in the required major course associated with the proposed area of study (CE 130 or CE 140 or CE 150 or CE 160 or CE 170).
Term Typically Offered: Fall, Spring

Individual project, research, or directed reading on an advanced topic.
Note: Open to only those students prepared and capable of carrying out independent work.

CE 231A. Computer Methods of Structural Analysis I. 3 Units
Prerequisite(s): CE 161.
Term Typically Offered: Fall only – even years

Flexibility and stiffness methods of structural analysis are applied to two- and three-dimensional framed structures. Use of computer software to perform analysis is discussed in detail. Techniques of computer modeling are discussed.

CE 231B. Computer Methods of Structural Analysis II. 3 Units
Prerequisite(s): CE 231A or instructor permission.
Term Typically Offered: Spring only – odd years

Continuation of CE 231A with extension of theory to allow for the analysis of a wider variety of structures. Structural analysis software is used for the analysis of three-dimensional structures. Fundamentals of the finite element method and computer modeling with applications to structural problems.

CE 232. Nonlinear Structural Analysis. 3 Units
Prerequisite(s): CE 231A or instructor permission.
Term Typically Offered: Spring only – odd years

Theory and applications of nonlinear structural analysis including geometric and material nonlinear effects. Stability issues and second-order analysis methods in the context of moment amplification effects, member buckling, and the behavior of structural elements and frames undergoing large deformations. Inelastic material behavior and stress resultant plasticity concepts within a line-type element framework. Computer implementation of geometric nonlinear behavior.

CE 234. Dynamics and Earthquake Response of Structures. 3 Units
Prerequisite(s): Knowledge of the stiffness method of structural analysis.
Term Typically Offered: Fall only – odd years

Response of structures modeled as single-degree systems to harmonic, periodic, and arbitrary excitation and earthquake ground motion; effects of damping and material nonlinearity; numerical methods using spreadsheets; response spectra. Response of structures modeled as multi-degree systems: modeling of structure mass, damping and elastic stiffness; solution by modal superposition; time-history and response spectrum analysis; implications for codes for earthquake-resistant design. Microcomputer software is extensively used.

CE 235. Advanced Steel Design. 3 Units
Prerequisite(s): CE 163
Term Typically Offered: Spring only – even years

Advanced design methodology of steel structures using Load and Resistance Factor Design (LRFD). System level behavior, especially from a seismic loading perspective, is integrated into the design of steel components and connections. Other topics include plate girder design, plastic design of indeterminate systems, design of moment frame systems, and design of braced-frame systems.

CE 250. Systems Analysis of Resources Development. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Spring only – even years

Investigation of resource planning using the 'systems approach'. Objectives of resource development; basic economic and technologic concepts, and economic factors affecting system design. Consideration of evaluation, institutional constraints, and uncertainty in water resources systems. Familiarization with modern computer techniques. Applications of concepts to air and land resources.

CE 251. Water Resources Planning. 3 Units
Prerequisite(s): CE 250 or instructor permission.
Term Typically Offered: Fall only – odd years

Application of single and multi-objective planning to the design and operation of water resources projects. Objectives and constraints for water projects, criteria and procedures for evaluation, planning under uncertainty. Application in water development and water quality planning, with case studies.

CE 252A. Environmental Quality Processes I. 3 Units
Prerequisite(s): CE 170 or equivalent.
Term Typically Offered: Fall, Spring

Theory and practice of chemical processes affecting water quality. Chemical equilibrium, stoichiometry and kinetics of aqueous chemistry. Acid-base, precipitation-dissolution, oxidation-reduction, and coordination chemistry. Adsorption.

CE 252B. Environmental Quality Processes II. 3 Units
Prerequisite(s): CE 170 or equivalent, CE 252A recommended, or instructor permission.
Term Typically Offered: Fall, Spring

Theory and practice of biological processes for controlling water. Stoichiometry and kinetics of microbial growth. Aerobic and anaerobic metabolism. Engineered suspended and attached growth systems. Introduction to sludge treatment.

CE 252C. Environmental Quality Processes III. 3 Units
Prerequisite(s): CE 170 or equivalent, CE 252A recommended, or instructor permission.
Term Typically Offered: Fall, Spring

Theory and practice of physical and chemical processes used in engineered water and wastewater systems. Adsorption, ion exchange, gas transfer, membrane processes, coagulation, flocculation, sedimentation, filtration, precipitation, disinfection, and stripping. Physical/chemical reactors.

CE 254. Water Quality Management. 3 Units
Prerequisite(s): CE 170 or equivalent, CE 252A recommended, or instructor permission.
Term Typically Offered: Fall, Spring

Examination of pollution sources and effects on water bodies, and the management issues and tools used to protect environmental quality. Topics include point and nonpoint pollution sources, interactions in the environment, Federal and State laws, water quality objectives, beneficial uses, and regulatory mechanisms such as basin plans and total maximum daily loads (TMDLs). Emphasis is on surface water.

CE 255. Transport of Chemicals in Soil Systems. 3 Units
Prerequisite(s): MATH 45. Graduate status.
Term Typically Offered: Fall, Spring

Study of the mechanics of movement of chemicals in soil, including equilibrium and partition models, development of mass transport equations in porous media, analytical solution for one-dimensional transport, lumped parameter transport model (linear reservoir model), transport of reactive and conservative chemicals numerical solutions of transport models, transport in the unsaturated zone and coupled models for saturated and unsaturated zone.

CE 261. Transportation Planning. 3 Units
Prerequisite(s): CE 148 or instructor permission.
Term Typically Offered: Fall only – odd years

Introduction to the complexities of comprehensive intermodal transportation planning. Study of transportation problems, system operating characteristics, alternative modes, and the planning process. Analyzes factors affecting travel behavior and methods of forecasting demand for travel by various modes.

CE 262. Advanced Transportation Facility Design. 3 Units
Prerequisite(s): CE 147 or instructor permission.
Term Typically Offered: Fall only – even years

Advanced study of current topics in highway and mass transportation facility design including safety, curve design, pavement design and drainage facility design. Focuses on current design practice and recent or impending changes in design practice.

CE 263. Traffic Flow Theory. 3 Units
Prerequisite(s): CE 147 or CE 148; ENGR 203 or instructor permission.
Term Typically Offered: Fall only – even years

Study of traffic flow characteristics including flow rate, speed, and density, at both the microscopic and macroscopic levels. Traffic flow analysis using the theoretical methods including capacity analysis, traffic stream models, shockwave analysis, and queuing analysis. Emphasis is on theory with demonstration of practical applications.

CE 265. Analysis and Control of Traffic Systems. 3 Units
Prerequisite(s): CE 147 or CE 148; CE 263 or instructor permission.
Term Typically Offered: Fall only – odd years

Traffic data collection and analysis, practical application of theoretical methods of analysis such as capacity, level of service, and queuing theory. Investigation of traffic control techniques such as actuated signals and signal systems, and study of management techniques for traffic congestion.

CE 266. Advanced Design in Reinforced Concrete. 3 Units
Prerequisite(s): CE 161, CE 163, CE 164.
Term Typically Offered: Spring only – even years

Advanced topics in behavior and design in reinforced concrete. Detailing for seismic response.

CE 267. Structural Systems for Buildings. 3 Units
Prerequisite(s): CE 232 or instructor permission.
Term Typically Offered: Spring only – even years

Analyzes and design of various structural systems for buildings: frames, tubes, shear walls with or without openings and interaction between these types. Secondary effects such as P^, material and geometrical nonlinearities.

CE 268. Pre-stressed Concrete Bridge Design. 3 Units
Prerequisite(s): CE 164 or instructor approval.
Term Typically Offered: Fall only – even years

Behavior and design of short and medium-span prestressed concrete bridges using American Association of State Highway and Transportation Officials (AASHTO) Load Resistance Factor Design (LRFD) specifications. Topics include: bridge types, aesthetics; design process; superstructure load types and live load analysis; limit states and load combinations; prestressed concrete materials; flexural analysis and design; shear analysis and design; and introduction to substructure analysis and design, including seismic design criteria. A team project is required.

CE 269. Pavement Design. 3 Units
Prerequisite(s): CE 147 and CE 171A.
Term Typically Offered: Spring only – even years

Fundamental principles of pavement analysis, design, and evaluation. Topics include pavement materials, mechanics, traffic and environmental loadings, pavement performance, design methods, construction and economic evaluation.

CE 271. Modern Hydrologic Techniques. 3 Units
Prerequisite(s): CE 137 or CE 138 and ENGR 203 or instructor permission.
Term Typically Offered: Spring only – even years

Analyses of hydrologic and meteorologic phenomena by mathematical, statistical, and system methods, linear and non linear, stochastic and parametric hydrology, computer applications in hydrology.

CE 272. Advanced Engineering Hydraulics. 3 Units
Prerequisite(s): CE 137 or equivalent.
Term Typically Offered: Spring only – even years

Steady uniform and non-uniform open channel flows including gradually, rapid and spatially varied flows; analysis of supercritical flow in transition; basic principles of unsteady flows; long wave theory; Saint-Venant Equations and their solutions including method of characteristics, explicit and implicit finite difference numerical methods.

CE 274. Hydrologic Modeling. 3 Units
Prerequisite(s): CE 272 or equivalent; instructor permission.
Term Typically Offered: Spring only – odd years

Theories and structure of hydraulic model components; application of HEC-RAS (River Analysis System) and HEC-HMS (Hydrologic Modeling System) computer programs; emphasis on flood routing methods; dam safety analysis methodology including dam break and dam overtopping cases; application of microcomputers in hydraulics computations.

CE 276. Groundwater Hydrology. 3 Units
Prerequisite(s): CE 137 or instructor permission.
Term Typically Offered: Fall only – even years

Occurrence and movement of groundwater; physical characteristics of aquifers; analysis of steady-state groundwater flow problems by mathematical, digital computer, electrical analog and graphical methods; analysis of unsteady-state problems in confined and unconfined, aquifers; multiple well systems.

CE 280A. Advanced Soil Mechanics and Foundation Engineering I. 3 Units
Prerequisite(s): CE 171A or equivalent.
Term Typically Offered: Fall only – even years

Advanced analyses in soil mechanics and their practical applications in foundation engineering; compressibility of soils, settlement analysis, and tolerable settlement; lateral earth pressures and design of earth retaining structures; bearing capacity of shallow foundations; in-situ soil testing for foundation design; design of deep foundations, including driven piles, drilled shaft foundations, and laterally loaded piles.

CE 280B. Advanced Soil Mechanics and Foundation Engineering II. 3 Units
Prerequisite(s): CE 171A or equivalent.
Term Typically Offered: Fall only – odd years

Advanced analyses in shear strength of cohesionless and cohesive soils, including stress-strain characteristics of soils, total and effective stress analyses; slope stability analyses for natural slopes, fill slopes, earth dams, levees, and methods of slope stabilization; analysis and design of anchored bulkheads, cellular cofferdams, soil nail walls, tieback walls, mechanically stabilized earth walls, and segmental retaining walls.

CE 280C. Geotechnical Modeling. 3 Units
Prerequisite(s): CE 171A
Term Typically Offered: Fall only – even years

Advanced analysis principles and procedures for calculating monotonic and cyclic soil element response effective stress and pore water pressure distributions, dynamic site response, and soil deformations; application to analysis of complex geotechnical engineering systems such as levees, dams, and wharfs. Laboratory time devoted to numerical analysis software and physical element and small scale tests. Lecture two hours. Laboratory three hours.

CE 283. Ground Modification Engineering. 3 Units
Prerequisite(s): CE 171A or equivalent.
Term Typically Offered: Fall, Spring

Principles of soil stabilization and earth reinforcement; mechanical compaction and treatment of difficult soils, including expansive soils, collapsible soils, oversize materials, and compressible fill; prefabricated vertical drains and preloading; dynamic deep compaction; vibro compaction; vibro-replacement; rammed aggregate pier; compaction grouting; jet grouting; slurry grouting; chemical grouting; deep soil mixing; slurry trench walls.

CE 284. Soil Dynamics and Earthquake Engineering. 3 Units
Prerequisite(s): CE 171A or equivalent.
Term Typically Offered: Spring only – odd years

Introduction to vibration theory; wave propagation in soils and dynamic behavior of soils and foundations; dynamic tests; analysis of dynamically loaded foundations; causes of earthquakes; earthquake magnitude and zones; ground motions induced by earthquakes; earthquake-resistant design of foundations and earth dams.

CE 285. Geosynthetics I. 3 Units
Prerequisite(s): CE 171A or instructor permission.
Term Typically Offered: Fall only – even years

Overview of geotextiles, geogrids and geonets; geosynthetic properties and test methods; geosynthetic functions and mechanisms as in separation, roadway and soil reinforcement, filtration, and drainage; applications and design methods; construction, fabrication and installation.

CE 286. Geosynthetics II. 3 Units
Prerequisite(s): CE 171A or instructor permission.
Term Typically Offered: Fall, Spring

Overview of geomembranes, geosynthetic clay liners, and geocomposites. Topics include: geosynthetic properties and test methods; geosynthetic functions and mechanisms as in landfill liners, liquid barriers and carriers, erosion control, drainage, and design and construction methods.

CE 289. Project Management for Civil Engineers. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Spring only

Theory and practice of project management in civil engineering. Interrelationship of planning, design, and construction. New technologies and techniques used in both US and international architectural/engineering/construction (A/E/C) markets.Topics: Project initiation, early estimates, project budgeting, work plans, design proposals, scheduling, tracking, design coordination, construction, project close-out, team and personal management skills, and quality control.

CE 296D. Stormwater Management. 3 Units
Prerequisite(s): CE 137 and CE 170
Term Typically Offered: Fall, Spring

Principles and practices of stormwater management. Physical and chemical principles affecting stormwater quality, environmental effects, and treatment. Regulatory purposes and requirements for managing construction and post-construction runoff. Choosing and designing Best Management Practices. Erosion control. Hydrologic and hydraulic design of small drainage systems. Emphasis on California climatic and regulatory conditions.

CE 296H. GIS Applications in Civil Engineering. 3 Units
Prerequisite(s): ENGR 115, CE 9 and CE 137 or CE 147 or CE 171A.
Term Typically Offered: Fall, Spring

Introduction to fundamental concepts of geographic information systems (GIS), methods, and applications in civil engineering. Design and develop GIS-based analytical methods and solutions for civil engineering problems. Lab exercises are used to design and practice GIS applications in civil engineering. This course may be paired with CE 196H.

CE 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Special problems in graduate research.
Note: Approval of a petition must be obtained from the faculty supervising the work and the Department Graduate Program Coordinator. Letter grade or Credit/No Credit.

Credit/No Credit

CE 500. Culminating Experience. 3 - 6 Units
Prerequisite(s): Advanced to candidacy and permission of the faculty advisor and Department Chair.
Term Typically Offered: Fall, Spring

Successful completion of either: A. Thesis (3-6 units), or B. Project (3-6 units) or C. Directed Study and Examination (3 units). Plan A requires a thesis and is primarily research-orientated. Plan B requires a project report that is primarily application oriented. Plan C requires a detailed literature review or experimental data analysis resulting in a written report plus an examination by three faculty. A public presentation is required for all three plans.

Communication Sciences and Disorders (CSAD)

CSAD 110. Physics of Sound and Phonetics. 4 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, and STAT 1
Corequisite(s): CSAD 111
Term Typically Offered: Fall only

Physical production, acoustic characteristics of sounds of speech. International Phonetic Alphabet as applied to speech sounds; practice in phonetic transcription of dialects and deviant speech; applications in speech education, speech and hearing therapy. Introduction to physiological acoustics, psychoacoustics, and acoustic phonetics. Perception of speech including voice, resonance, individual speech segments; instrumentation for acoustic and perceptual analysis of speech.

CSAD 111. Anatomy and Physiology of the Speech Mechanism. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, and STAT 1
Corequisite(s): CSAD 110
Term Typically Offered: Fall only

Anatomical, physiological and neurological bases of speech. Covers development, normal structure and function. A general course in human anatomy is recommended as background.

CSAD 112. Language Science and Development. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, and STAT 1
Corequisite(s): CSAD 110 and CSAD 111
Term Typically Offered: Fall only

Overview and comparison of normal and abnormal child language development from infancy through upper elementary school. Establishes a framework for understanding language disorders including autism and pervasive developmental delay. Includes theories of language acquisition, basic principles of language sampling, systems of language, elements of grammar, and preparation for informal and standardized assessment of language disorders. Introduces students to the impact of variables such as attention deficit disorder, poverty, bilingualism on developing language skills.

CSAD 123. Voice and Fluency. 3 Units
Prerequisite(s): CSAD 125, CSAD 126, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Fluency - Characteristics of stuttering, etiologic theories and their implications for treatment. Management of stuttering and other disorders of rhythm. Voice - Current concepts regarding anatomy and physiology, etiology, assessment and treatment of hyperfunctional and organic disorders.

CSAD 125. Developmental and Acquired Neurogenic Language Disorders Across the Lifespan. 3 Units
Prerequisite(s): CSAD 112, CHDV 30, PSYC 2, STAT 1, and DEAF 51.
Term Typically Offered: Spring only

Language disorders and the dynamic, reciprocal relationships between the disability, the client, his/her family, and the environment. Developmental and acquired neurogenic language disorders from infancy through adulthood will be covered including neurophysiology and neuropathology.

CSAD 126. Speech Sound Development and Disorders in Children: Aspects of Articulation and Phonology. 3 Units
Prerequisite(s): CSAD 110, CHDV 30, PSYC 2, STAT 1, and DEAF 51.
Term Typically Offered: Spring only

Study of normal articulation and phonological development in children. Discussion of etiologies and specific characteristics of articulatory-phonological disorders. Introductory description of foundational specific assessment and treatment principles. Analyzes case studies.

CSAD 127. Introduction to Medical Speech Pathology. 3 Units
Prerequisite(s): CSAD 123, CSAD 125, CSAD 126, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Current concepts regarding anatomy and physiology, etiology, assessment, and treatment of craniofacial disorders, laryngectomy, tracheostomy and dysphagia.

CSAD 130. Introduction to Audiology. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, STAT 1, CSAD 110 and CSAD 111.
Term Typically Offered: Spring only

Introduction to the field of audiology. Covers the principles of sound, the anatomy and physiology of the auditory system, audiometry, physiological measures of auditory function, disorders of the auditory system, sound and various assessment approaches.

CSAD 133. Introduction to Aural Rehabilitation. 3 Units
Prerequisite(s): CSAD 125, CSAD 126, CSAD 130, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Principles of aural (re)habilitation across the lifespan. Topics include psychosocial aspects of hearing impairment, communication strategies, amplification, and intervention approaches for children and adults with hearing loss.

CSAD 140. SLPA Methods. 3 Units
Prerequisite(s): CSAD 145 and instructor permission.
Corequisite(s): CSAD 140L.
Term Typically Offered: Fall, Spring

Taken by students as one of their senior level courses when they wish to pursue a Speech-Language Pathology Assistant (SLPA) licensure. Graduate students who have not had a similar course and wish to obtain this licensure will also need to enroll prior to pursuing the licensure.

CSAD 140L. SLPA Practicum, Ethical and Legal Parameters. 3 Units
Prerequisite(s): CSAD 145 and instructor permission.
Corequisite(s): CSAD 140.
Term Typically Offered: Fall, Spring

Taken by students as one of their senior level courses when they wish to pursue a Speech-Language Pathology Assistant (SLPA) licensure. Graduate students who have not had a similar course and wish to obtain this licensure will also need to enroll prior to pursuing the licensure.

CSAD 142. Topics in Autism Spectrum Disorders. 2 Units
Prerequisite(s): CSAD 112, CSAD 125, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Detailed look at characteristics of autism spectrum disorders (including Asperger's Syndrome, PDD-NOS and Autism). Issues related to diagnosis/assessment, early intervention, school-based intervention, functional therapeutic techniques and theories, and current 'hot topics' in Autism (Theory of Mind, joint attention, biomedical issues, dietary restrictions, sensory regulation and intervention paradigms) will be a part of this course.

CSAD 143. Communication Disorders in Multicultural Populations. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, STAT 1, CSAD 110, CSAD 125, and CSAD 126.
Term Typically Offered: Fall, Spring

Identification, evaluation, and treatment of multicultural, multilingual clients with communication disorders. Discussion of normal second language acquisition, bilingual development, and cultural values related to effective service delivery for multicultural clients.

CSAD 145. Supervised Field Observations. 1 Unit
Prerequisite(s): CSAD 110, CSAD 111, CSAD 112, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Corequisite(s): CSAD 125, CSAD 126, and CSAD 130.
Term Typically Offered: Spring only

Directed observations of speech and hearing testing (screening and diagnostic); therapy and case staffing in schools, service clinics and hospitals.
Credit/No Credit

CSAD 146. Introduction to Clinical Issues and Methods. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, STAT 1, CSAD 110, CSAD 111, CSAD 112, CSAD 125, CSAD 126, CSAD 130, and CSAD 145.
Term Typically Offered: Fall, Spring

Methods and materials used in clinical procedures are introduced. Work with graduate students and clients provides introduction to actual procedures and ethical practices. Introduction to ASHA Code of Ethics and legal issues in professional practice including federal and state laws and regulations, funding sources and scope of practice, survey of professional settings for speech and hearing services, including multidisciplinary settings. Prior to enrolling in CSAD 146, students must fulfill the catalogue requirements listed in the catalogue section 'Undergraduate Clinical Assistantship.

CSAD 147. Assessment Procedures. 3 Units
Prerequisite(s): CSAD 125, CSAD 126, CSAD 145, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Current principles, methods and materials used by the speech-language pathologist to assess communication disorders are presented. Issues related to a model of assessment, informal and formal testing, dynamic assessment, interview techniques, administration, scoring and interpretation of test results, report writing and related issues will be discussed.

CSAD 148. Research in Speech - Language Pathology and Audiology. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, SAT 1, CSAD 110, CSAD 111, CSAD 112, CSAD 125, CSAD 126, CSAD 130, and CSAD 145.
Term Typically Offered: Fall, Spring

Survey of research strategies and methods in Speech-Language Pathology and Audiology. Statistical procedures and single-subject designs. Emphasis on interpreting research reports in the literature and on developing research projects. Writing research proposals and reports.

CSAD 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students competent to carry on individual work.
Note: Departmental petition required.

Credit/No Credit

CSAD 217. AAC and Assistive Technologies. 2 Units
Term Typically Offered: Spring only

Biological, acoustic, psychological, development, linguistic, and cultural bases for motor speech disorders, focusing on augmentative and alternative communication an assistive technologies as well as their assessment and treatment techniques.

CSAD 218. Motor Speech Disorders. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall only

Background pertinent to understanding neurophysiology associated with congenital and acquired dysarthria and dyspraxia. Descriptions and classifications of disorders and their causes, methods of assessment and treatment.

CSAD 219. Counseling Techniques for Speech Pathologists and Audiologists. 3 Units
Term Typically Offered: Fall only

Development of strategies for counseling and interviewing clients with communication disorders and their families. Development of specific skills such as effective listening, dealing constructively with emotions, working with families, and leading support groups. Students will learn to deal effectively with the affective side of communication disorders to help clients benefit maximally from assessment and treatment.

CSAD 221. Neurogenic Language Disorders. 4 Units
Term Typically Offered: Spring only

In-depth study of language and cognitive disorders in adult, secondary to cerebrovascular accident, dementia, and/or traumatic brain injury. Assessment and intervention strategies are covered with particular emphasis on functional outcomes.

CSAD 222. Curriculum in Relation to Language -- Learning Disabilities in School-age Children. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Spring only

Language acquisition as a continuum from oral language to reading and writing, the role of the speech-language specialist in working with reading disabilities; the interactions among speech-language intervention and curricula areas including mathematics, spelling, handwriting, social studies and language arts; and various service delivery models, including collaborative consultation and learning centers.

CSAD 223. Advanced Seminar in Child Language Disorders. 3 Units
Prerequisite(s): CSAD 125 or equivalent
Term Typically Offered: Fall only

In-depth study of childhood language disorders emphasizing the use of critical thinking to integrate evidence-based practice into discussion of current assessment and intervention practices for children with primary and secondary language impairment Specific topics include language sampling, early intervention, connecting intervention with Common Core State Standards, and team-based service delivery. Populations addressed include bilingual learners, those with working memory deficits, and autism spectrum disorder. The impact of the digital era and screen exposure on children with language impairment is discussed.

CSAD 227. Dysphagia and the Medical Setting. 3 Units
Prerequisite(s): CSAD 218, CSAD 221, instructor permission.
Term Typically Offered: Fall, Spring

Swallowing problems from infancy through old age; growth patterns and failures in younger populations; feeding and swallowing problems related to normal aging processes and those associated with neurogenic disorders. Assessment and treatment. Includes theoretical and experiential components. Overview of the role of Speech-Language Pathologist in the hospital setting including learning how to read medical charts, basic insurance information, understanding other disciplines and how they affect the job and career of an SLP in the hospital, and medical terms/abbreviations.

CSAD 228A. Speech Sound Disorders: Concepts and Methods. 2 Units
Prerequisite(s): Admission to the graduate program. CSAD 125, CSAD 126, CSAD 143, CSAD 145, CSAD 146, CSAD 148.
Corequisite(s): CSAD 229A.
Term Typically Offered: Fall, Spring

Speech sound disorders for graduate students in speech-language pathology. Foundations of speech sound disorders, as well as techniques and materials for assessing and treating speech sound differences and disorders of varying etiologies and presentations. Weekly content will be integrated with practical experiences to promote learning.

CSAD 228B. Voice and Fluency: Concepts and Methods. 3 Units
Prerequisite(s): CSAD 123, CSAD 127, CSAD 228A, instructor permission.
Corequisite(s): CSAD 229B.
Term Typically Offered: Fall, Spring

Foundations of fluency, voice and resonance, as well as techniques and materials for assessing and treating speech disorders, emphasizing fluency and voice. Staffings and discussion of cases on the current caseload. Weekly content integrated with practical experiences to promote learning.

CSAD 228C. Methods: Speech Disorders III. 1 Unit
Prerequisite(s): CSAD 218, CSAD 228B; CSAD 221 may be concurrent; instructor permission.
Corequisite(s): CSAD 229C.
Term Typically Offered: Fall, Spring

Techniques and materials for assessing and treating clients with disordered speech secondary to developmental disabilities and syndromes, degenerative diseases or complex problems associated with English as a second language (ESL). Discussions of cases in the current caseload.

CSAD 229A. Practice: Speech Disorders I. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 228A
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing articulation and phonological disorders, and phonological difficulties associated with English as a second language (ESL). Clients may include both children and adults.

CSAD 229B. Practice: Speech Disorders II. 2 Units
Prerequisite(s): Instructor permission.
Corequisite(s): CSAD 228B.
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing clients whose speech is disrupted by abnormal rhythm and rate (e.g. stuttering and cluttering) or abnormal vocal pitch, loudness, and/or quality.

CSAD 229C. Practice: Speech Disorders III. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 228C
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing children and adults whose speech is disrupted secondary to developmental disorders and syndromes, degenerative disorders or complex problems.

CSAD 241S. Practice: Hearing Screenings. 1 Unit
Prerequisite(s): CSAD 130
Term Typically Offered: Fall, Spring

Supervised clinical practice in the administration of hearing screening tests. The student must furnish his/her own transportation. Fifteen to twenty hours for one unit.
Credit/No Credit

CSAD 242A. Methods: Language Disorders I & Professional Writing-Field of Speech-Language Pathology & Audiology. 2 Units
Prerequisite(s): Admission to Graduate Program
Corequisite(s): CSAD 243A
Term Typically Offered: Fall, Spring

Methods, materials and procedures in language disorders with emphasis on working with children and adults with peripheral hearing loss or central auditory processing disorders (CAPD). Includes staffing and discussion of cases in the current caseload. Focus on professional writing in the field of Speech-Language Pathology through the development of treatment plan proposals, critical responses, and clinic reports.

CSAD 242B. Methods: Language Disorders II. 1 Unit
Prerequisite(s): CSAD 223, CSAD 242A; instructor permission.
Corequisite(s): CSAD 243B.
Term Typically Offered: Fall, Spring

Techniques and materials for assessing and treating children with disordered language secondary to a myriad of contributing factors including delayed development, neurological problems and various genetic conditions. Discussion of cases in the current caseload.

CSAD 242C. Methods: Language Disorders III. 1 Unit
Prerequisite(s): CSAD 218, CSAD 242B; CSAD 221 may be taken concurrently; instructor permission.
Corequisite(s): CSAD 243C.
Term Typically Offered: Fall, Spring

Techniques and materials for assessing and treating speech and language disorders emphasizing disorders secondary to cerebral vascular accidents, traumatic brain injury, or other neurological disorders. Discussion of cases in the current caseload.
Note: May be repeated.

CSAD 243A. Practice: Language Disorders I. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 242A
Term Typically Offered: Fall, Spring

Supervised clinical practice in language disorders emphasizing children and adults with peripheral hearing loss or central auditory processing disorders (CAPD).

CSAD 243B. Practice: Language Disorders II. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 242B
Term Typically Offered: Fall, Spring

Supervised clinical practice with children demonstrating language disorders secondary to a myriad of contributing factors including delayed development, neurological problems, and various genetic conditions.

CSAD 243C. Practice: Language Disorders III. 2 Units
Prerequisite(s): CSAD 243B; instructor permission
Corequisite(s): CSAD 242C
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing adult clients whose speech and language are disordered secondary to neurogenically related problems such as cerebrovascular accident, traumatic brain injury, or other neurological disorders.

CSAD 244. Methods: Speech -- Language Assessment. 1 Unit
Prerequisite(s): CSAD 147 or equivalent; CSAD 228B, CSAD 242B; instructor permission.
Corequisite(s): CSAD 245.
Term Typically Offered: Fall, Spring

Methods and materials for initial assessment in Speech-Language Pathology.

CSAD 245. Practice: Speech -- Language Assessment. 1 Unit
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 244
Term Typically Offered: Fall, Spring

Supervised clinical practice in assessment with a variety of communication disorders in children and adults. Experience with interdisciplinary teams.

CSAD 250. Speech/Language Internships Seminar. 2 Units
Prerequisite(s): CSAD 228A, CSAD 228B, CSAD 228C, CSAD 229A, CSAD 229B, CSAD 229C, CSAD 241S, CSAD 242A, CSAD 242B, CSAD 242C, CSAD 243A, CSAD 243B, CSAD 243C, CSAD 244, CSAD 245.
Corequisite(s): CSAD 295I, or CSAD 295M, or CSAD 295P, or CSAD 295S.
Term Typically Offered: Fall, Spring

Assessment, scheduling and conducting language speech and hearing programs in schools. Related issues including scope of practice, managed care, interagency cooperation and transdisciplinary approaches.

CSAD 295I. Internship: Speech-Language and Hearing Services in Schools (SLHS). 4 Units
Prerequisite(s): All previous semester's clinical practica and coursework must be completed, achievement of a passing score on the CBEST.
Corequisite(s): CSAD 250. Graded: Credit/No Credit Units: 4
Term Typically Offered: Fall, Spring

Supervised clinical practice in the school setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation.
Credit/No Credit

CSAD 295M. Internship: Speech-Language Pathology in a Medical Setting. 4 Units
Prerequisite(s): All previous semester's clinical practica and coursework must be completed, achievement of a passing score on the CBEST.
Corequisite(s): CSAD 250. Graded: Credit/No Credit Units: 4
Term Typically Offered: Fall, Spring

Supervised clinical practice in a medical setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation.
Credit/No Credit

CSAD 295P. Internship: Speech-Language Pathology in Private Practice. 4 Units
Prerequisite(s): CSAD 250. All previous semester's clinical practica and coursework must be completed, achievement of a passing score on the CBEST. Graded: Credit/No Credit. Units: 4
Term Typically Offered: Fall, Spring

Supervised clinical practice in a private practice setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation.
Credit/No Credit

CSAD 295S. Internship: Special Class Authorization Eligibility. 4 Units
Prerequisite(s): CSAD 250. All previous semester's clinical practica and coursework must be completed, achievement of a passing score on the CBEST. Graded: Credit/No Credit Units: 4
Term Typically Offered: Fall, Spring

Supervised clinical practice in a medical setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation.
Credit/No Credit

CSAD 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work.
Note: Departmental petition required.

Credit/No Credit

CSAD 500C. Culminating Experience: Comprehensive Exam. 2 Units
Prerequisite(s): Advanced to Candidacy Graded: Credit/No Credit Units: 2.0
Term Typically Offered: Fall, Spring

Written exam comprised of eight questions. Examinees are given one and a half hours to complete each question.

CSAD 500P. Culminating Experience: Project. 2 Units
Prerequisite(s): Advancement to Candidacy. Graded: Credit/No Credit. Units: 2.0 - 4.0
Term Typically Offered: Fall, Spring

Independent work conducted under the supervision of faculty members. A project is a significant undertaking appropriate to the professional fields of Speech-Language Pathology or Audiology. It must evidence originality, independent thinking, appropriate form and organization, and a rationale. It must be described and summarized in a written document that includes the project's significance, objectives, methodology, and a conclusion or recommendation. Students must follow all department and university project guidelines.

CSAD 500T. Culminating Experience: Thesis. 2 Units
Prerequisite(s): Advanced to Candidacy. Graded: Credit/No Credit.
Term Typically Offered: Fall, Spring

Independent research study, conducted under the supervision of faculty members. Thesis must involve a research question or hypothesis, review of pertinent literature, collection and analysis of data. It is the student's responsibility to locate and recruit subjects, to collect data, and to write the thesis. Students must follow all department and university thesis guidelines.

CSAD 501. Audiology Doctoral Project I. 1 Unit
Prerequisite(s): CSAD 510
Term Typically Offered: Fall only

Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines.
Credit/No Credit

CSAD 502. Audiology Doctoral Project II. 1 Unit
Prerequisite(s): CSAD 501
Term Typically Offered: Spring only

Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines.
Credit/No Credit

CSAD 503. Audiology Doctoral Project III. 1 Unit
Prerequisite(s): CSAD 502
Term Typically Offered: Summer only

Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines.
Credit/No Credit

CSAD 504. Audiology Doctoral Project IV. 1 Unit
Prerequisite(s): CSAD 503
Term Typically Offered: Fall only

Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines.
Credit/No Credit

CSAD 505. Audiology Doctoral Project V. 1 Unit
Prerequisite(s): CSAD 504
Term Typically Offered: Spring only

Dissemination, written and oral, of capstone research.
Credit/No Credit

CSAD 510. Audiology Progress Exam. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 620, CSAD 620C, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 630, CSAD 630C, CSAD 631, CSAD 632.
Term Typically Offered: Summer only

Formative written and practical exam based on coursework and clinical experiences from the first year of the Doctor of Audiology program.
Credit/No Credit

CSAD 610. Introduction to Clinic. 1 Unit
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Introduction to on-campus clinic operations, including electronic documentation procedures, clinic policies, and documentation.

CSAD 611. Anatomy and Physiology of the Auditory and Vestibular Systems. 3 Units
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Anatomical, physiological, and neurological bases of the auditory system and central nervous system and central nervous system. Covers embryologic development, including genetic factors, and normal structure and function.

CSAD 612. Acoustics and Psychoacoustics. 3 Units
Prerequisite(s): Admission to Doctorate program in Audiology.
Term Typically Offered: Fall only

Basic properties of the acoustics of simple and complex sounds. Psychophysical aspects of frequency and pitch, intensity and loudness, and temporal processes will be discussed. Speech perception for listeners with normal hearing and those with hearing loss.

CSAD 613. Instrumentation in audiology. 3 Units
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Basic principals of electrical systems, calibration, signal processing, and analysis. Review of national standards related to calibration and instrumentation used in audiology.

CSAD 614. Audiologic Evaluation. 3 Units
Prerequisite(s): Admission to doctorate program in audiology.
Term Typically Offered: Fall only

Introduction to the purpose, diagnostic use, and procedures for basic clinical tests of auditory function in children and adults. Assessments including pure-tone audiometry, speech audiometry, masking, and immittance measures are discussed. Supervised, hands-on experiences will accompany lecture topics.

CSAD 620. Clinical Methods: Communicating with Patients. 1 Unit
Prerequisite(s): Admission to doctorate program in audiology; CSAD 610.
Corequisite(s): CSAD 620C.
Term Typically Offered: Spring only

Communicating with patients. The nature of health communication among providers, patients, families, and caregivers. Topics related to multicultural issues will also be presented.

CSAD 620C. Audiology Clinic II. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610
Corequisite(s): CSAD 620
Term Typically Offered: Spring only

Supervised clinical practice in audiology with an emphasis on developing clinical skills for audiologic evaluations, amplification, and aural rehabilitation.

CSAD 621. Research Methods in Audiology. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614
Term Typically Offered: Spring only

Treatment of human subjects and research methods. Overview of the research process, including research designs, development of data collection instruments, and data collection, and introduction to basic statistical concepts for the Au.D. doctoral project. Ethical considerations of research are also discussed.

CSAD 622. Amplification I. 3 Units
Prerequisite(s): Admission to the Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, and CSAD 614.
Corequisite(s): CSAD 622L
Term Typically Offered: Spring only

Introduction to electroacoustic analysis and characteristics of hearing aids. Includes components of hearing aids, hearing aid gain and fitting formulae, and basic signal processing.

CSAD 622L. Amplification I Lab. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, and CSAD 614.
Corequisite(s): CSAD 622.
Term Typically Offered: Spring only

Laboratory component of CSAD 622: Amplification I. Hands-on experience with concepts presented in CSAD 622.

CSAD 623. Disorders of the Auditory System. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, and CSAD 614.
Term Typically Offered: Spring only

Pathologies of the auditory system, including diagnosis, management, and treatment.

CSAD 624. Genetics for Audiology. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614.
Term Typically Offered: Spring only

Introduction to genetics, inheritance, and causes of hearing loss and balance disorders.

CSAD 630. Clinical Methods: Report writing. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620.
Corequisite(s): CSAD 630C.
Term Typically Offered: Summer only

Principles of clinical report writing. Foundations of professional writing and recordkeeping for the diagnostic and rehabilitative processes. Writing requirements for practicum experiences will be discussed.

CSAD 630C. Audiology Clinic III. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C.
Corequisite(s): CSAD 630.
Term Typically Offered: Summer only

Supervised clinical practice in audiology with an emphasis on developing clinical skills for audiologic evaluations, amplification, and aural rehabilitation.

CSAD 631. Amplification II. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624
Term Typically Offered: Summer only

Advance study of digital amplification systems, including hearing aids and assistive listening devices. Practical approaches to the fitting of devices are discussed.

CSAD 632. Pediatric and Educational Audiology. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624.
Term Typically Offered: Summer only

Introduction to etiologies of childhood hearing impairment, including genetics, syndromic and non-syndromic causes of hearing loss, and risk factors. Objective and behavioral measures of assessing auditory function and hearing in newborns, infants, toddlers, and children. Review of screening procedures.

CSAD 640. Clinical Methods: Current Topics in Audiology. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630
Corequisite(s): CSAD 640C
Term Typically Offered: Fall only

Review and discussion of current topics in audiology such as hidden hearing loss, cerumen management, tinnitus, speech perception in noise, central auditory processing, or technological advancements in amplification.

CSAD 640C. Audiology Clinic IV. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C, CSAD 630C
Corequisite(s): CSAD 640
Term Typically Offered: Fall only

Supervised clinical practice in audiology with an emphasis on developing clinical skills for audiologic evaluations, amplification, and aural rehabilitation.

CSAD 641L. Auditory Evoked Potentials Lab. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632
Corequisite(s): CSAD 641
Term Typically Offered: Fall only

Lab component includes administration and reporting of physiological assessments presented in CSAD 641: Auditory Evoked Potentials.

CSAD 642. Industrial Audiology and Hearing Conservation. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632.
Term Typically Offered: Fall only

Study of the effects of noise on the auditory system and measurement of noise levels. Theories and resources for the implementation of hearing conservation programs for recreational/leisure noise exposure, industrial settings, and schools.

CSAD 643. Tinnitus. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD611, CSAD612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632.
Term Typically Offered: Fall only

Psychological and physiological models of tinnitus and hyperacusis, diagnostic methods, and management.

CSAD 650. Clinical Methods: Billing and Coding. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640
Corequisite(s): CSAD 650C
Term Typically Offered: Spring only

Overview of coding, billing, and reimbursement for audiology services and devices. Students will learn current federal regulations and laws that affect audiology practice.

CSAD 650C. Audiology Clinic V. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C
Corequisite(s): CSAD 650
Term Typically Offered: Spring only

Supervised clinical practice in audiology with an emphasis on refining clinical skills and working independently.
Credit/No Credit

CSAD 652. Pediatric Habilitation. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631 CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643.
Term Typically Offered: Spring only

Early identification, assessment, and rehabilitation for infants and children with hearing loss. Focus on speech and language outcomes, communication strategies, technology, and counseling of families.

CSAD 653. Diagnosis and Management of Vestibular Disorders. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643.
Term Typically Offered: Spring only

Anatomical and physiological bases of the vestibular system, including congenital, peripheral and central, and neurologic factors will also be introduced. Physiological measures of the vestibular system, clinical assessment, and management and rehabilitation.

CSAD 660. Clinical Methods: Legal and Ethical Issues. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640, CSAD 650
Corequisite(s): CSAD 660C
Term Typically Offered: Summer only

Ethics for clinical practice and research and legal issues for audiologists. Focuses on local and national issues that influence service delivery.

CSAD 661. Aural Rehabilitation. 3 Units
Term Typically Offered: Summer only

Rehabilitative techniques and communication needs for adults and the aging population. Focus on minimizing communication difficulties and managing psychosocial aspects of hearing loss. Prerequisite:Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653.

CSAD 662. Implantable Devices and Technology. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653
Term Typically Offered: Summer only

Pre-operative assessment and post-operative management of cochlear implants and other implantable devices. Includes patient counseling for expectations, introduction to surgical procedures, mapping, use of assistive devices, and current developments in research.

CSAD 670. Clinical Methods: Professional Issues. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640, CSAD 650, CSAD 660
Corequisite(s): CSAD 670C
Term Typically Offered: Fall only

Professional issues for audiologists. Topics covered include licensure, certification, and professional Involvement at the local, state, and national levels.

CSAD 670C. Audiology Clinic VII. 2 Units
Prerequisite(s): Student must be admitted to Doctor of Audiology program; complete CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C, CSAD 650C to enroll in this course.
Corequisite(s): CSAD 670.
Term Typically Offered: Fall, Spring

Supervised clinical practice in audiology with an emphasis on refining clinical skills and working independently.

CSAD 671. Counseling in Audiology. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 322, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662.
Term Typically Offered: Fall only

Introduction to the principles and theories of counseling. Emphasis on communication skills and applied techniques. Considerations for assessing multicultural populations. Influences of cultural background on attitudes, beliefs, disabilities, utilization of health care services, and deafness.

CSAD 672. Central Auditory Processing Disorders. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 311, CSAD 312, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 331, CSAD S32, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 362.
Term Typically Offered: Fall only

Definition and role of audiologists in the assessment, diagnosis, and management of children, adults, and older adults with auditory processing disorder.

CSAD 673. Pharmacology and Ototoxicity. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611 , CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD6 42, CSAD 343, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662.
Term Typically Offered: Fall only

Introduction to the basic concepts of pharmacology, including pharmacokinetics, polypharmacy, and ototoxicity (cochleotoxicity, vestibulotoxicity, and neurotoxicity), for audiologists. Overview of drug classifications, interactions, and regulations.

CSAD 680. Clinical Methods: Differential Diagnosis. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640, CSAD 650, CSAD 660, CSAD 670
Corequisite(s): CSAD 680C
Term Typically Offered: Spring only

Discussion of clinical cases to encourage critical thinking and decision-making processes.

CSAD 680C. Audiology Clinic VIII. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C, CSAD 650C, CSAD 660C, CSAD 670C.
Corequisite(s): CSAD 680
Term Typically Offered: Spring only

Supervised clinical practice in audiology with an emphasis on refining clinical skills and working independently.
Credit/No Credit

CSAD 682. Aging and the Auditory System. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 341 , CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662, CSAD 671, CSAD 672, CSAD 673.
Term Typically Offered: Spring only

Overview of physical, psychological, social, and cognitive changes that are associated with normal aging. Prevalent disorders, diseases, and conditions in older adults will be discussed. Effects of aging on diagnostic tests and rehabilitation for older adults. Interdisciplinary in nature.

CSAD 683. Speech-Language Pathology for Audiologists. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 314, CSAD 621. CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 331, CSAD 332, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662, CSAD 671, CSAD 672, CSAD 673
Term Typically Offered: Spring only

Overview of speech and language development, including screening for speech and language disorders and risk factors for speech and language delay, from the perspective of audiology. Principles of auditory-verbal therapy.

CSAD 710. Clinical Methods: Externship I. 2 Units
Prerequisite(s): CSAD 520
Corequisite(s): CSAD 710E
Term Typically Offered: Summer only

Seminar and discussion of cases from externship placements.

CSAD 710E. Audiology Externship 1. 7 Units
Prerequisite(s): CSAD 520
Corequisite(s): CSAD 710
Term Typically Offered: Summer only

Full-time externship in audiology.
Credit/No Credit

CSAD 720. Clinical Methods: Externship II. 2 Units
Prerequisite(s): CSAD 710.
Corequisite(s): CSAD 720E.
Term Typically Offered: Fall only

Seminar and discussion of cases from externship placements.

CSAD 720E. Audiology Externship 2. 7 Units
Prerequisite(s): CSAD 710E.
Corequisite(s): CSAD 720.
Term Typically Offered: Fall only

Full-time externship in audiology.
Credit/No Credit

CSAD 730. Clinical Methods: Externship III. 2 Units
Prerequisite(s): CSAD 720.
Corequisite(s): CSAD 730E.
Term Typically Offered: Spring only

Seminar and discussion of cases from externship placements.

CSAD 730E. Audiology Externship 3. 7 Units
Prerequisite(s): CSAD 720E.
Corequisite(s): CSAD 730.
Term Typically Offered: Spring only

Full-time externship in audiology.
Credit/No Credit

Communication Studies (COMS)

COMS 2. Argumentation. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Practice in argumentation, critical evaluation, evidence, and reasoning. Basic principles are applied in a variety of formal and informal advocacy situations. Concepts of argument structure and context are discussed and applied.
Note: Majors must complete with a grade of 'C-' or better.

COMS 4. Introduction to Public Speaking. 3 Units
General Education Area/Graduation Requirement: Oral Communication (A1)
Term Typically Offered: Fall, Spring

Theory and technique of public speaking. Emphasis on organizing, supporting, and clearly stating ideas. Practice in informative and persuasive speaking.

COMS 4H. Honors Public Speaking. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Oral Communication (A1)
Term Typically Offered: Fall, Spring

Provides both theoretical and practical training in the art of public discourse. Students learn both to recognize and to demonstrate the strategic processes of organizing and delivering speeches, especially within the context of global citizenship issues. Students are also introduced to the basic idea of forming reasonable challenges to speech in the public square.

COMS 5. The Communication Experience. 3 Units
General Education Area/Graduation Requirement: Oral Communication (A1)
Term Typically Offered: Fall, Spring

Basic skills and introductory concepts necessary for effective communication in a variety of settings. Special emphasis on practical experiences within groups, facilitation of interpersonal relationships, and methods of conflict resolution.
Note: Not recommended for COMS majors in General, Organizational or Public Relations concentrations.

COMS 8. Interpersonal Communication Skills. 3 Units
Term Typically Offered: Fall, Spring

Basic skills and introductory concepts for examining and altering interpersonal communication. In addition to lectures and discussions, students engage in structured interpersonal exercises and simulations to practice interpersonal communication skills such as listening, paraphrasing, describing feelings and intentions, and giving and receiving criticism.
Note: Majors must complete with a grade 'C-' or better.

COMS 20A. Audio Production. 2 Units
Corequisite(s): COMS 20B.
Term Typically Offered: Fall, Spring

Introduction to the theory and practice of audio production in radio, television, film and recording applications.
Cross listed: FILM 20A.

COMS 20B. Audio Production Laboratory. 1 Unit
Corequisite(s): COMS 20A.
Term Typically Offered: Fall, Spring

Experience in audio console operation, microphone selection and use, and audio recording in radio, television, film and recording applications. Cross listed: FILM 20B.

COMS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Helps students to develop and exercise fundamental academic success strategies and to improve their basic learning skills. Students interact with fellow students and the seminar leader to build a community of academic and personal support.

COMS 26. Introduction to Capturing and Editing Digital Media. 3 Units
Term Typically Offered: Fall, Spring

Developing skills in producing photographic, graphic and animated materials used for the World Wide Web and multimedia.

COMS 27A. Digital Film/Video Production. 2 Units
Corequisite(s): COMS 27B.
Term Typically Offered: Fall, Spring

Addresses the theory and practice of film/video production. Students will be expected to understand: camera operation, audio control, basic directing, lighting, and editing. Students will also be expected to learn the terminology of video production/post-production and use this terminology competently. Students enrolled in COMS 27A must be concurrently enrolled in COMS 27B. There are no exceptions to this requirement.
Cross-listed: FILM 27A

COMS 27B. Digital Film/Video Production Laboratory. 1 Unit
Corequisite(s): COMS 27A.
Term Typically Offered: Fall, Spring

Provides practical, hands-on experience in video production. Students will be expected to become proficient in all production roles: camera operation, audio control, basic directing, lighting, and editing. Students enrolled in COMS 27B must be concurrently enrolled in COMS 27A.
Cross listed: FILM 27B.

COMS 55. Media Communication and Society. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the basic concepts of mass communication, including the effects, uses, and functions associated with the goods and services of mass media. Examination of the ways mass media combine with other institutions to affect the organization, design, and comprehension of messages, as well as political thought, cultural beliefs, and economic behavior.
Note: Majors must complete with a grade of 'C-' or better. Cross Listed: JOUR 55; only one may be counted for credit.

COMS 100A. Survey of Communication Studies. 3 Units
Term Typically Offered: Fall, Spring, Summer

Survey of various theories of communication. Attention given to such topics as verbal and nonverbal coding, information processing, interpersonal and small group communication, organizational communication, the structure and effects of mediated communication, rhetorical criticism, and research in communication.
Note: Majors and minors must complete with a grade of 'C-' or better.

COMS 100B. Rhetoric and Social Influence. 3 Units
Prerequisite(s): COMS Studies Majors only. COMS 2, COMS 4, (COMS 5 is accepted for COMS 4 for MCOM majors) or transfer equivalents and (GWAR Certification before Fall 09, or WPJ score of 80+, or at least a C- in ENGL 109M or ENGL 109W).
Corequisite(s): COMS 100A
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

Detailed examination of texts on controversial issues in order to illustrate the varied forms of rhetorical action and the diverse modes of rhetorical analysis. Examples drawn from the literature of classical/contemporary rhetors.
Note: Majors must complete with a grade of 'C-' or better; Writing Intensive

COMS 100C. Introduction to Scientific Methods in Communication Research. 3 Units
Prerequisite(s): COMS 100A; may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Empirical methods commonly applied during communication research. An introduction to the concepts fundamental to the scientific study of communication, including conceptual and operational definitions, sampling, measurement, experimental design, independent and dependent variables, and quantitative data analysis.
Note: Majors must complete with a grade of 'C-' or better.

COMS 101. Information Management and Privacy. 3 Units
Term Typically Offered: Fall, Spring

Students develop skills to use information proficiently in digital environments. In order to cope with information overload, students learn how to define and limit informational needs, how to access and evaluate information critically, and how to analyze and integrate information purposefully. The course teaches students evolving strategies and techniques for maintaining personal information spaces and security.

COMS 103. Presentational Speaking in the Organization. 3 Units
Prerequisite(s): A general education oral communication course.
Term Typically Offered: Fall, Spring, Summer

Contemporary communication techniques for use in business and industry. Principles and practice of oral reporting, persuasive speaking, conference participation, and interpersonal interaction.
Note: COMS majors are urged to take COMS 104 instead of COMS 103.

COMS 104. Persuasive Public Speaking. 3 Units
Prerequisite(s): COMS 2, COMS 4, or instructor permission.
Term Typically Offered: Fall, Spring

Advanced public speaking focusing upon persuasive strategies, principles and techniques.

COMS 105. Communication in Small Groups. 3 Units
Term Typically Offered: Fall, Spring, Summer

Theory and practice in small group communication. Topics include leadership, meeting management, evolution of group norms, phases of group development, communication networks, good communication techniques, conflict management, and problem solving in a variety of contexts.

COMS 106. Digital Media Creation - An Introduction. 3 Units
Term Typically Offered: Fall, Spring

Students learn multimedia authoring through the manipulation of digital media download legally from online repositories. Students learn how to digitally edit pixel-based images, vector images, audio, video and 3D models, while learning the principles that govern all digital media. The course uses Open Source and specialized software.

COMS 107. Children And Television. 3 Units
Term Typically Offered: Fall, Spring

Cognitive, affective, and behavioral effects of television on children. Explores in detail issues such as televised violence, stereotyping, advertising and cognitive development. Discusses relationship between television and education.

COMS 108. Family Communication. 3 Units
Prerequisite(s): COMS 8 or FACS 50 or SOC 166, or instructor permission.
Term Typically Offered: Fall, Spring

Family as a small group with emphasis on understanding and interpreting the dynamics of family communication and socio-psychological theories. Cross Listed: FACS 108; only one may be counted for credit.

COMS 110. Advanced Debate Workshop. 1 Unit
Term Typically Offered: Fall, Spring

Participation in intercollegiate debate competition.
Credit/No Credit

COMS 111. Debate Research Practicum. 3 Units
Term Typically Offered: Fall only

Directed research in the current intercollegiate debate topic; identification of issues, compilation of evidence, and case building.
Note: May be taken four times for credit with instructor permission.

COMS 114. Communication and American Culture. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Critical analysis of the ways modern American media interact with the conduct of American life; emphasizes the role of commercialism and other aspects of contemporary American capitalism; examines the problem of personal development and relationships in the context of a commercially dominated media system.

COMS 115. Nonverbal Communication. 3 Units
Term Typically Offered: Fall, Spring

Nonverbal communication will focus on the nonverbal aspects of human communication. Students will learn the vocabulary of nonverbal communication (NVC) as we examine the nature of NVC, NVC Codes, and the effects of NVC on messages we receive and send. In addition, we will consider nonverbal behaviors in interpersonal relationships, intercultural communication and research in nonverbal.

COMS 116. Intercultural Communication. 3 Units
Term Typically Offered: Fall, Spring, Summer

Analysis of factors which influence communication between individuals of different cultures and cocultures. Discussion and practical application.

COMS 117. Multimedia Communication. 3 Units
Prerequisite(s): COMS 106
Term Typically Offered: Fall, Spring

Students create and integrate information and digital media with the purpose of informing or persuading an audience. By identifying communication needs, students learn to prepare multimedia presentational aids and standalone multimedia presentations for distribution in online environments. This course features topics in visual communication, story-boarding, presentation and delivery.

COMS 118. Survey of Public Relations. 3 Units
Prerequisite(s): At least one college writing course in ENGL or JOUR with a grade of 'C-' or better.
Term Typically Offered: Fall, Spring

Introduces the student to publics, organization-environment relationships, structures, practices, and processes from a communication theory and research perspective. Specifically, the student is introduced to the multi-phased approach to public relations, an approach that highlights the PR subprocesses of task identification, task analysis, and task performance.

COMS 119. Conflict Resolution Through Communication. 3 Units
Term Typically Offered: Fall, Spring

Ways to identify, clarify, and resolve conflicts in dyads, groups, and organizations. Conflict is contrasted with disagreement, aggression, incompatible values, etc. The costs and benefits of conflict are explored.

COMS 120. History of the Media. 3 Units
Prerequisite(s): COMS 55 or JOUR 55 or equivalent; may be taken concurrently.
Term Typically Offered: Fall, Spring

Examination of development of major mass communication media in the U.S. and of how the economics, content, regulation and audience use of the media have been affected by the way the media have evolved. Current issues and trends are discussed, as well as possible future development. Cross Listed: JOUR 120; only one may be counted for credit.

COMS 121. Media Aesthetics. 3 Units
Term Typically Offered: Fall, Spring

Overview and analysis of the primary aesthetic tools used to create messages in video and film. The basic properties of light, color, area, space, shape, sound, time and motion are defined and discussed as they relate to media production. Introduces students to the concepts and vocabulary necessary for effectively conceiving, producing or criticizing mediated messages. Designed primarily for students with interest in digital media. Provides a foundation for students working in media criticism.
Cross listed: FILM 121.

COMS 122. Writing for Interactive Media. 3 Units
Prerequisite(s): ENGL 1A and ENGL 20 or (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.)
Term Typically Offered: Fall, Spring

Writing and editing for visual, audio, and interactive media. How to choose appropriate format and delivery mechanisms for news, web sites, kiosks, and CD/DVD. Topics include copyright law and information ethics.

COMS 123. Writing for Public Relations. 3 Units
Prerequisite(s): JOUR 30; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
Term Typically Offered: Fall, Spring

Organization and operation of communication media; practice in publicity and public relations techniques. Emphasis on clear writing and correct public relations formats such as releases, PSAs, articles, and speeches.
Cross listed: JOUR 123

COMS 124. Writing Scripts for Film/Video. 3 Units
Prerequisite(s): ENGL 1A and ENGL 20.
Term Typically Offered: Fall, Spring

Developing narratives, documentaries, educational, promotional, and experimental short screenplays. Students are expected to develop a writing style and master screenwriting and audio/visual scripting formats. Scripts will be developed to be produced in advanced production courses: COMS/FILM 128 and COMS/FILM 185.
Cross listed: FILM 124.

COMS 126. Motion Graphics in Film and Video. 3 Units
Prerequisite(s): COMS 20A, COMS 20B and COMS 26 or both COMS 27A and COMS 27B each with a grade of 'B-' or better or instructor permission.
Term Typically Offered: Fall, Spring

Artistic and technical skills employed when capturing and editing photographic, audio, and video data files. Data files are prepared for export into multimedia authoring applications. Mastery of appropriate hardware and software.

COMS 127. Producing and Directing for Television. 3 Units
Prerequisite(s): COMS 20A, COMS 20B, COMS 27A, COMS 27B, each with a grade of 'B-' or better.
Term Typically Offered: Fall, Spring

Theory and practice of producing and directing television programs with emphasis on studio and control room techniques.

COMS 128. Non-Studio Video Production. 3 Units
Prerequisite(s): COMS 20A, COMS 20B, COMS 27A, COMS 27B.
Term Typically Offered: Fall, Spring

Production of video materials using portable cameras and recorders. Application of electronic field production and post-production techniques.
Cross-listed: FILM 128.

COMS 129. Film and Video Production Management. 3 Units
Term Typically Offered: Fall, Spring

Management and administration of the preproduction and production process. Course to include script breakdown, budgeting, scheduling and other preproduction and production management skills needed for film or video production. Special attention on the history, development and current practices of the Production Manager.
Cross listed: FILM 129.

COMS 130. Staging and Lighting Digital Video. 3 Units
Prerequisite(s): COMS 20A, COMS 20B, COMS 27A, COMS 27B, each with a grade of B- or better.
Term Typically Offered: Fall, Spring

Introduction to the aesthetics, concepts and techniques used to control lighting in digital video productions. Aspects of staging, blocking and composition in the context of studio and location lighting.
Note: Students enrolled are required to work on productions outside of scheduled class time (1-3 hours/week). Cross listed: FILM 130.

COMS 133. The Documentary Film. 3 Units
Term Typically Offered: Fall, Spring

Examines the historical, development, and present state of documentary film. Emphasis is on both understanding and critically analyzing the significance of various genres of the documentary and its uses as a tool for information, proselytizing, education, and propaganda.

COMS 136. Introduction to Electronic Publishing. 3 Units
Prerequisite(s): COMS 26 or instructor permission.
Term Typically Offered: Fall, Spring

Design and production of information sites for the World Wide Web. Concepts covered include market analysis, cognitive design, layout, navigation, interactive strategies, site management, and multimedia components for electronic distribution systems. Introduction to object oriented programs and XHTML text editors.

COMS 140. Online Collaboration. 3 Units
Term Typically Offered: Fall, Spring

Students learn to communicate in virtual environments in real-time and asynchronously. Students survey current technologies for collaboration, explore psychological and cultural aspects of individuals working and communicating in teams across computer networks, and identify strategies to foster cooperatives in distributed work.

COMS 141. Theory of Film and Video Editing. 3 Units
Prerequisite(s): COMS/FILM 27A and COMS/FILM 27B with final posted grade of C or better.
Term Typically Offered: Fall, Spring

Study of history and theory of film and video editing. Many films are viewed and discussed, examining how editing theory is put into practice.
Cross listed: FILM 141.

COMS 142. Film As Communication. 3 Units
Term Typically Offered: Fall only

Explores the uses of film as a tool of communication.

COMS 143. Theories of Interpersonal Communication. 3 Units
Prerequisite(s): COMS 8 or equivalent; COMS 100A may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

One-to-one communication between individuals in both social and task settings. Theories of communication during the growth and decay of relationships, as well as research on the forces behind relational dynamics. Topics include nonverbal communication, self concept, communication of self, theories of conflict resolution, communication competence and the rhetoric of disconfirmation.

COMS 144. Developing Rich Media Websites. 3 Units
Prerequisite(s): COMS 27A, and COMS 27B.
Term Typically Offered: Fall, Spring

An introduction to the creation of multimedia websites using current multimedia development software such as Flash. Emphasis will be placed on creating interactive video and formatting video programs for delivery over the WWW, extranets, or intranet.

COMS 145. Organizational Communication. 3 Units
Prerequisite(s): COMS 100A.
Term Typically Offered: Fall, Spring, Summer

Basic concepts of interpersonal and inter-group communication within formal and informal social organizations. Current techniques of auditing and evaluating organizational communication.

COMS 149. Multimedia Authoring. 3 Units
Prerequisite(s): COMS 106, COMS 126.
Term Typically Offered: Fall, Spring

Basic multimedia authoring theory and skills. Text, graphics, audio, and video are synchronized into interactive media. Topics include 2D animation, interface design, and fundamentals of scripting language.

COMS 150. Mass Communication Theories and Effects. 3 Units
Prerequisite(s): COMS 55 or JOUR 55 or equivalent; and COMS 100A which may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Survey of the major theories dealing with the relationship between the mass media and human communication behavior. Examination of research into the social, political, economic and cultural effects of mass communication.

COMS 152. Freedom Of Speech. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Thorough introduction to issues related to freedom of speech and censorship, sections of the historical origins of free speech, seditious speech, libel and slander, pornography and obscenity, commercial speech and advertising, symbolic speech and hate speech. The class brings a communication focus to addressing issues related to the First Amendment.

COMS 153. Journalism Law and Ethics. 3 Units
Term Typically Offered: Fall, Spring

Laws and regulations that govern print, broadcast, and the electronic mass media in the U.S. Discusses the process by which laws and regulations are enacted and interpreted as well as legal and regulatory issues concerned with the content, control, political role and responsibilities of media practitioners, regulators, Congress, and the public.
Cross listed: JOUR 153

COMS 154. Instructional Design and Training. 3 Units
Term Typically Offered: Fall, Spring

Communication theory and practice in organizational training. Surveys instructional communication theory and the instructional design process. Focus on effective communication in training contexts. Topics include needs assessment, training design, training evaluation and training delivery via electronic media.

COMS 155. Survey of World Cinema. 3 Units
Term Typically Offered: Fall, Spring

A historical review of the development of major international film styles and themes. Concepts derived from this study of international film are then used as a basis to analyze contemporary films of India, Asia, and Africa. Emphasis is on both the development of formal film technique and a comparison of the unique cultural values that shape the film narrative and style.

COMS 157. Video Art. 3 Units
Prerequisite(s): ART 97 or COMS 27A/Film 27A and COMS 27B/Film 27B.
Term Typically Offered: Fall, Spring

The creation and analysis of video artwork; including techniques of video production, post-production manipulation and critique, within the context of art and communication. The techniques and theory of producing and editing video will serve as a foundation for the pursuit of individual, creative projects.
Cross-listed as ART 147; only one may be counted for credit.

COMS 158. Public Relations Planning and Management. 3 Units
Prerequisite(s): COMS 118 and COMS 123 or JOUR 123 with grade of 'C-' or better.
Term Typically Offered: Fall, Spring

Theoretical concepts to the solution of problems for pre-selected non-profit and campus clients by forming small group PR agencies; completing needs assessments; profiling target and secondary audiences; developing and implementing a strategic public relations plan; producing targeted messages for media kits and other uses; developing and evaluating formative and summative evaluation plans; and making formal in-class presentations to peers, clients and invited PR professionals. Students will also learn how to negotiate contracts, maintain client relations, track work on projects and develop timelines and budgets.
Cross Listed: JOUR 158; only one may be counted for credit.

COMS 160. Political Communication. 3 Units
Term Typically Offered: Fall only

Analyzes the relationship between mass media and political decision-making, including a structural analysis of political and media institutions. Particular attention on the formation of public opinion through messages and strategies, and the impact of public opinion on public policy.

COMS 161. Health Communication. 3 Units
Term Typically Offered: Fall, Spring

Communication principles and techniques as they apply to the many facets of health care, health education and promotion, and research in health communication. Emphasis on understanding and improving communication among health professionals, and between health professionals and clients. Explores the rapidly emerging field of health communication. Selected concepts and theories of human communication are directly applied to communication problems and situations in health care settings through the use of case studies. In addition, pertinent research that helps explain human interaction in health care is incorporated through readings and discussions.

COMS 162. Gender Ideology and Communication. 3 Units
Prerequisite(s): COMS 100A
Term Typically Offered: Fall, Spring

Scholarly, theoretical and critical writings on the production and circulation of gender roles, images, and gender-types attributes through communication, with a special focus on mass-mediated communication such as television, video, and film.

COMS 164. Visual Communication. 3 Units
Prerequisite(s): COMS 100A and 100B or equivalent, with a grade of C- or better.
Term Typically Offered: Fall, Spring, Summer

Comprehensive overview of the theoretical concepts and communication methodologies appropriate for analysis of contemporary visual messages. Focuses on rhetorical analysis of visual messages. Significant research and critical writing required

COMS 165. Communication and Religion. 3 Units
Term Typically Offered: Fall, Spring, Summer

Examines the history, development and present state of religious communication. Discussion of the limits and challenges communication theories face when confronted with situations requiring them to describe the indescribable. Emphasis upon the communication methods in a religious context as well as the communication strategies, limits, and possibilities that are revealed in what is arguably the most extreme of communication situations: the intersection of religion and words.

COMS 166. Theories of Persuasion and Attitude Change. 3 Units
Term Typically Offered: Fall, Spring

Various theories of persuasion and attitude change, both classical and empirical, in terms of their effectiveness and social impact. Includes units on production and consumption of persuasive messages.

COMS 167. Systems and Theories of Rhetoric. 3 Units
Prerequisite(s): COMS 100B or equivalent with a grade of 'C-' or better.
Term Typically Offered: Fall, Spring, Summer

Historical survey of theories of rhetoric. Comparison/contrast of scope and value of rhetorical theories. Practice in critical writing.

COMS 168. Approaches to Rhetorical Criticism. 3 Units
Prerequisite(s): COMS 100B or equivalent with a grade of 'C-' or better.
Term Typically Offered: Fall, Spring, Summer

Analyzes rhetorical events, using a variety of critical perspectives. Current issues on criticism's function and the critic's role. Practice in critical writing.

COMS 169. Television Criticism. 3 Units
Prerequisite(s): COMS 100B with a grade of C- or better; completion of 12 units of upper division COMS courses; or unclassified graduate student status; or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Introduction to television criticism theory and to various critical methods with which television program texts may be analyzed. Current theoretical and critical issues in the function of criticism and the role of the critic are addressed through readings, writing assignments, screenings and discussion.

COMS 170. Data Analysis in Communication Research. 3 Units
Prerequisite(s): COMS 100C or equivalent with a grade of 'C-' or better; or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Introduction to the application of data analysis to the study of communication processes.

COMS 171. Survey Methods in Communication Research. 3 Units
Prerequisite(s): COMS 100C or equivalent with a grade of 'C-' or better; or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Techniques of survey research in communication, including sampling, questionnaire construction, interviewing, data analysis, and report writing. Each student designs and executes a research project.

COMS 172. Content Analysis. 3 Units
Prerequisite(s): COMS 100C or equivalent with a grade of 'C-' or better; or instructor permission.
Term Typically Offered: Fall, Spring

Content analysis as a research technique in communication. Emphasizes design and execution of content analysis studies in a wide range of communication situations. Each student completes several short studies and a major project.

COMS 173. Communication, Language and Culture. 3 Units
Prerequisite(s): COMS 100A.
Term Typically Offered: Spring only

Cross-cultural exploration of communication and social interaction; relationship between language and society; cross-cultural implications of values embedded in message production, transmission, and interpretation; studies of how language influences perception and organization of social reality; linguistics, information and message transmission.
Note: Restricted to junior and above or instructor permission.

COMS 174. International Communication. 3 Units
Prerequisite(s): COMS 100A.
Term Typically Offered: Fall, Spring, Summer

Movement of mediated messages across and between national boundaries. Topics include news and entertainment flow, media systems and philosophies, cultural dependency and imperialism, the new world information order and communication development.

COMS 175. Creative Problem Solving. 3 Units
Term Typically Offered: Fall, Spring

Creative problem solving techniques for use by individuals and groups. Topics include the nature of creative problem solving, barriers to creativity, clear problem definition, idea generation, decision making, group dynamics in creative situations, implementation of changes, and overcoming resistance to change.

COMS 176. Communication and Terrorism. 3 Units
Prerequisite(s): COMS 100A or instructor permission
Term Typically Offered: Spring only

This course addresses the communication aspects of terrorism, including both the ways terrorism has been used to make political and religious statements worldwide; how the media cover those messages; and how we talk about those messages and the coverage they receive. The course draws on the cutting-edge communication research from international/intercultural, political, mass communication, and computer-mediated communication sources. This is a course in the communication of terrorism. It is neither a course in the political science of terrorism nor in the criminal justice enforcement of counter-terrorism.

COMS 178. Virtual Communities on the Internet. 3 Units
Term Typically Offered: Fall, Spring

The nature of communication in virtual communities on the Internet and the impact that these communities have on traditional communication media. Topics include: the interaction of real and cyber communities, self-publishing, educational uses of virtual communities, virtual self-governance, artificial intelligent agents, and the issues of security, privacy, and anonymity. Students will participate in structured on-line activities.

COMS 179. Media, Sports, and Society. 3 Units
Term Typically Offered: Spring only

Examines and critiques the relationship between the mass media and sports. Reviews theoretical approaches for studying media and sports (including historical, sociological, psychological, political, and cultural studies perspectives), then examines how sport is mediated through literature, print journalism, radio, and television.

COMS 180. Senior Seminar in Organizational Communication. 3 Units
Prerequisite(s): COMS 145; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring, Summer

Seminar on communication theories, techniques and research methodologies in the field of social and governmental organizational systems.

COMS 181. Senior Seminar in Small Group Communication. 3 Units
Prerequisite(s): COMS 105; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring, Summer

Seminar on the ways theories of group communication are realized in actual social settings.

COMS 182. Senior Seminar in Interpersonal Communication. 3 Units
Prerequisite(s): COMS 8, COMS 143, and completion of 12 units of upper division COMS courses including COMS100A.
Term Typically Offered: Fall, Spring, Summer

Seminar on advanced theories of interpersonal communication. Sample topics include relational development, relational termination, communication and interpersonal attraction, and communication competence. Students present one in-class report and complete a major research paper.

COMS 183. Senior Seminar in Media Issues and Ethics. 3 Units
Prerequisite(s): COMS 55 or JOUR 55; COMS 150; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring

Seminar on the functions and roles of communication media in contemporary society. Includes issues and ethical considerations associated with freedom, responsibility and control examined from the points of view of the media, the government and the public. Specific topics will vary.

COMS 184B. Multimedia Project Completion. 3 Units
Prerequisite(s): Instructor permission.
Corequisite(s): COMS 184A.
Term Typically Offered: Fall, Spring

Second of a two-semester senior project sequence. Students complete the project designed in COMS 184A. Projects are completed with assistance and feedback from the instructor, client, and working professionals.

COMS 185. Senior Practicum in Video Production. 3 Units
Prerequisite(s): COMS/FILM 124 with a final posted grade of C or better; COMS/FILM 128 with a final posted grade of C or better.
Term Typically Offered: Fall, Spring

Assignments in various phases of video production including creative use of camera, sound and lighting, editing production design, production planning and management, and directing and producing. Students in first semester function as crew members for productions.
Note: May be repeated once for credit. Repeating students are expected to produce and direct a major student project. Cross listed: FILM 185.

COMS 186. Seminar in Health Communication. 3 Units
Term Typically Offered: Fall, Spring

Examines how health messages impact individuals, communities, and mass audiences. Critiques health communication research, raises awareness about health-related messages in our daily lives, applies theories of health communication, and critically analyzes how the creation, sending, and reception of health messages impacts society. Sample topics include doctor-patient communication, cross-cultural communication about health, and mass media effects of health-related images in media.

COMS 187. Issue Management and Case Studies in Public Relations. 3 Units
Prerequisite(s): COMS 118; completion of 12 units of upper division COMS courses.
Term Typically Offered: Fall, Spring

Examines the management of issues in the public and private sectors including knowledge and skills in the communication activities and thinking processes that affect an issue's development. Uses case studies of organizations--governmental agencies, businesses, and not-for-profit entities to assess issue development and management by examining the fundamental questions confronting organizations: What should the particular organization do and how should it do it? Examines criteria for selecting among alternative options, and the relation of the organization to its environment. Explores the broader social, legal, and ethical implications of the organization's activities.

COMS 188. Senior Seminar in Intercultural Communication. 3 Units
Prerequisite(s): COMS 116; completion of 12 units of upper division COMS courses including COMS 100A.
Term Typically Offered: Fall, Spring, Summer

Critically examines and analyzes complex dynamics and concepts in communication and culture in a pluralistic society. Also relates various perspectives on intercultural communication theories and methods to an analysis of social interaction processes among culturally diverse groups. An interactive dimension includes problem-solving strategies.

COMS 189. Practicum in Communication Training. 3 Units
Prerequisite(s): COMS 145 and COMS 154 or instructor permission.
Term Typically Offered: Spring only

Students work in groups to complete organizational training projects within community organizations. After assessing the organization's needs, students design, conduct and evaluate training. Advanced readings and professional competencies are emphasized.

COMS 190. Human Communication on the Internet. 3 Units
Term Typically Offered: Fall only

Provides an in-depth study of communication models that summarize and explain the interaction of humans in electronic environments, especially the Internet. Students locate, organize, analyze, an synthesize the latest research in online communication and make connection between theoretical models and their own experiences.

COMS 191. New Media and Society. 3 Units
Term Typically Offered: Fall, Spring, Summer

The course examines contemporary social, cultural, political and economic topics regarding the adoption of digital media and the Internet. Students understand their role as citizens of a global knowledge-based society and the ethical dimensions brought by the new computer-enabled media environment.

COMS 192. Senior Seminar in Film. 3 Units
Prerequisite(s): Completion of the Film Studies upper and lower division core or COMS 142, and (GWAR Certification before Fall 09, or WPJ score of 80+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Spring only

Research seminar that provides an in-depth investigation of film as an art form, a medium of mass communication and a means of personal expression. Subject will vary according to instructor.
Cross listed: FILM 192.

COMS 194. Communication Studies - Related Work Experience. 3 - 6 Units
Prerequisite(s): Open only to upper division or graduate students with appropriate course preparation. Units may not be used to meet COMS major, minor or graduate course work requirements. Consent of Communication Studies Department faculty advisor required. No more than 12 units may be counted toward the degree.
Term Typically Offered: Fall, Spring

Supervised employment in a company or agency working on communication studies-related assignments, arranged through the Department of Communication Studies and the Cooperative Education Program office. Requires preparation of application packet, completion of a 6 month full-time or part-time work assignment, and a written report.
Credit/No Credit

COMS 195. Internship in Communication Studies. 1 - 6 Units
Prerequisite(s): COMS 100A, minimum 2.3 overall GPA.
Corequisite(s): COMS 100A.
Term Typically Offered: Summer only

Directed work experience in the internship program. Supervision is provided by both instructional staff and the cooperating agency. Faculty approval required.
Credit/No Credit

COMS 196. Critical Analysis of the Media. 3 Units
Prerequisite(s): Upper division standing for majors and non majors.
Term Typically Offered: Fall, Spring

The course will introduce students to semiotics that will be employed to tease out 'overt' and hidden meanings in news (print and video) and other mediated messages. In particular the course will focus on the various, powerful strands of American ideology, e.g., individualism, democracy, patriarchy, femininity, feminism, capitalism, the family, patriotism, environmentalism, and the First Amendment that shape an understanding of ourselves and of our society. It will examine the present state of American journalism and how it operates.

COMS 199. Special Problems. 1 - 3 Units
Prerequisite(s): COMS 100A.
Term Typically Offered: Fall, Spring

Individual projects or directed reading open to students who wish to attempt independent work. Faculty approval required.
Credit/No Credit

COMS 200. Qualitative Research Methods in Communication Studies. 3 Units
Term Typically Offered: Fall, Spring

Focuses on qualitative research methods as one methodological option to use in scholarly research. Critically review and analyze existing qualitative research projects; creation of qualitative research project; and response the research projects of peers. Consideration of ways to successfully integrate into the communication discipline through a variety of class discussions, readings, and activities.
Note: Graduate student status or instructor permission required

COMS 201. Communication Theory. 3 Units
Term Typically Offered: Fall, Spring

Approaches to the study of human communication. Emphasizes general theories of communication and specific theories of rhetoric, symbolic interaction, information processing, interpersonal communication, small group communication, persuasion, organizational communication, and mass communication. Must be taken within first two semesters of graduate enrollment.
Note: Graduate standing or instructor permission required.

COMS 202. Quantitative Research Methods in Communication Studies. 3 Units
Prerequisite(s): Graduate student status or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to advanced quantitative and qualitative research methods. Students will demonstrate their ability to apply at least one research perspective to a significant topic of interest in the discipline. Students are expected to produce a well-crafted research proposal as part of a culminating experience.

COMS 206. Organizational Communication. 3 Units
Term Typically Offered: Fall, Spring

History, research, and theories in the social, psychological, and structural aspects of organizational communication. Students undertake field studies integrating various analytical approaches.

COMS 207. Dyadic Communication. 3 Units
Term Typically Offered: Fall, Spring

Various theoretical approaches to interpersonal or face-to-face communication.

COMS 208. Communication and National Development. 3 Units
Term Typically Offered: Fall, Spring

Role of communication in national development. Examines how communication (government policies, technologies and implementation strategies) can be used in the development of third world nations.

COMS 209. Communication and Social Change. 3 Units
Term Typically Offered: Fall, Spring

Relationship between movement rhetoric, mass media messages and major societal changes and paradigm shifts. Students examine the flow of communication from individual and group 'change agents' to the larger population and write a paper which illuminates a contemporary social change in progress.

COMS 210. Seminar in Mass Communication. 3 Units
Term Typically Offered: Fall, Spring

Concentrated survey of mass media systems and an analysis of theories of media uses and effects. Students are required to conduct library research on a specific media-related topic and to present their findings orally.

COMS 211. Electronic Media and American Culture. 3 Units
Term Typically Offered: Fall, Spring

American thought and culture as reflected in and influenced by the content of electronic media.

COMS 212. Seminar in Small Group Communication. 3 Units
Term Typically Offered: Fall, Spring

Theory and research about task-oriented groups.

COMS 213. Seminar In Criticism. 3 Units
Term Typically Offered: Fall, Spring

Intensive examination of critical theory. A major critical paper is prepared by each student.
Note: Graduate Writing Intensive

COMS 215. Communication and Public Opinion. 3 Units
Term Typically Offered: Fall, Spring

Examines theoretical foundations of public opinion formation and change and explores current public opinion measurement methodologies.

COMS 216. Seminar on Contemporary Issues in Intercultural Communication. 3 Units
Term Typically Offered: Fall, Spring

Various theories, perspectives and approaches to the study of intercultural communication. Selected contemporary issues pertaining to race and culture and their impact on the communication process, especially the multicultural/multiracial consciousness in California in particular, and the U.S. in general.

COMS 217. Assessment of Communication Behavior in Organizations. 3 Units
Term Typically Offered: Fall, Spring

Review of measuring instruments commonly used to assess communication practices in large organizations. Students also critically review relevant research literature regarding important communication issues in large organizations.

COMS 219. Conflict Resolution. 3 Units
Term Typically Offered: Fall, Spring

Review of theory and research of the role of communication in conflict resolution.

COMS 221. Instructional Communication Theory. 3 Units
Term Typically Offered: Fall, Spring

Survey of dominant theories of instructional communication. Students read, study and critique prevailing bodies of literature which have a bearing on the study and practice of instructional communication. Theories are used to help students reflect on their own experiences as teachers and students and to generate new ideas for research in instructional communication.

COMS 222. Instructional Communication Practicum. 3 Units
Term Typically Offered: Fall, Spring

Examination of communication theory and research in instructional or training contexts. Designed for beginning teachers or organizational trainers. Centers on those communication principles which contribute to greater student/client learning and satisfaction. Emphasis on the development and implementation of instructional communication packages for adult learners.

COMS 228. Corporate Advocacy and Public Policy. 3 Units
Term Typically Offered: Fall, Spring

Explores 'corporate advocacy' as a kind of rhetorical, persuasive transaction between Corporate America and those in its environment. Seeks to understand corporate America's role in the 'policy process' (broadly defined), by analyzing the constituted authority for policy formation, the actual institutions involved in such formation, the interaction between/among these centers of power, the difference between authority and influence between/among these centers of power and influence, and how corporate America uses rhetorical messages to enhance various goals.

COMS 230. Computer-Mediated Communication. 3 Units
Term Typically Offered: Fall, Spring

Instruction and analysis of human and social Computer-Mediated Communications. Covers from how digital media affects representation and narrative to research on current uses of the Internet and the theoretical frameworks applied to summarize it. Includes a component of Computer Literacy that will help students understand Computer-Mediated Communication and use online collaborative tools efficiently. No previous computer knowledge is required.

COMS 285. Practicum for Teaching Associates in Communication Studies. 1 Unit
Prerequisite(s): COMS 200, COMS 201.
Term Typically Offered: Fall, Spring

Open to students appointed as teaching associates in Communication Studies. Designed to facilitate the development, refinement, and maintenance of effective teaching methods and strategies.
Note: May be repeated up to three times with permission of instructor.

Credit/No Credit

COMS 295. Internship in Communication Studies. 1 - 6 Units
Term Typically Offered: Fall, Spring

Directed work experience in the internship program. Supervision is provided by both the instructional staff and the cooperating agency. Faculty and Graduate Committee approval required the semester prior to enrollment.
Credit/No Credit

COMS 296A. Communication Research Methods. 1 Unit
Term Typically Offered: Fall, Spring

This one-unit module provides an in-depth look at a particular communication research method or data analysis technique. Content varies.
Note: 1 unit, repeatable.

COMS 296B. Communication Topics. 1 Unit
Term Typically Offered: Fall, Spring

This one-unit module provides an in-depth look at a particular communication research topic or theory. Content varies.
Note: Course may be repeated so long as the topic is different.

COMS 297. Directed Study and Comprehensive Examination. 1 - 3 Units
Prerequisite(s): Must be advanced to candidacy.
Term Typically Offered: Fall, Spring

Structured and supervised reading program for MA candidates preparing for comprehensive examinations. Should be taken after completion of all other requirements for the degree. Credit given upon successful completion of comprehensive examinations. Examining committee determines the number of units to be credited.
Note: Open to students who have been advanced to candidacy and have secured permission of the chair of their examining committee and the Graduate Coordinator.

Credit/No Credit

COMS 298. Colloquium In Communication. 3 Units
Term Typically Offered: Fall, Spring

A seminar on a communication topic of contemporary concern. Topic may change from semester to semester. May be taken for credit more than once, provided topic is not repeated.

COMS 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading open to students wishing to attempt independent work. Faculty and Graduate Committee approval required the semester prior to enrollment.
Credit/No Credit

COMS 500. Culminating Experience. 3 - 6 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis or project committee.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree. Thesis or project prospectus committees determine the number of units to be credited.

Computer Engineering (CPE)

CPE 64. Introduction to Logic Design. 4 Units
Prerequisite(s): CSC 15 or CSC 25 or ENGR 50.
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Covers the following topics: logic gates, binary number system, conversion between number systems, Boolean algebra, Karnaugh maps, combinational logic, digital logic design, flip-flops, programmable logic devices (PLDs), counters, registers, memories, state machines, designing combinational logic and state machines into PLDs, and basic computer architecture. Lab emphasizes the use of software equation entry design tools, the use of a schematic entry, and the use of a logic simulation design tool. Lab assignments are design-oriented. Lecture three hours; laboratory three hours.
Cross listed: EEE 64

CPE 64W. Introduction to Logic Design Workshop. 1 Unit
Corequisite(s): CPE 64.
Term Typically Offered: Fall, Spring

Designated to assist students in developing a more thorough understanding of logic simulation and logic design. Focus is on problem solving and design. Activity two hours.
Cross Listed: EEE 64W; only one may be counted for credit.

Credit/No Credit

CPE 138. Computer Networks and Internets. 3 Units
Prerequisite(s): CSC 35, CSC 60, CSC 130.
Term Typically Offered: Fall, Spring

Overview of the fundamentals of computer networks and connections between networks, from the physical layer up through peer-to-peer communications at the application level. Lower layer characteristics including serial vs. parallel, capacity issues, high-speed connections, LAN framing and error handling. LAN vs. WAN characteristics, network architecture and the ISO network model. Internetworking components including LANs, repeaters, routers, bridges, and gateways. Internet addresses, TCP/IP, and the Domain Name System. Common Internet client/server application protocols including SMTP and FTP. Client/Server programming involving sockets. World Wide Web characteristics including CGI and HTTP protocol, Web pages, Web browsers, Web servers, and Applets. Introduction to advanced Web issues such as Web security, Search engine operations, and Web database operations.
Cross Listed: CSC 138; only one may be counted for credit.

CPE 142. Advanced Computer Organization. 3 Units
Prerequisite(s): CSC 137 or CPE 166 and CPE 185.
Term Typically Offered: Fall, Spring

Design and performance issues of computers. Instruction set architecture, computer arithmetic, processor design, survey of contemporary architectures, interfacing I/O devices, hierarchal memory design and analysis, parallelism and multiprocessing, distributed systems, techniques for enhancing performance, and an introduction to EDA tools for design and verification of computers. Design and simulation of a microcomputer in an HDL.
Note: Open to students with full CSC or CPE major standing only. Cross Listed: CPE 142; only one may be counted for credit.

CPE 144. Dsp Architecture Design. 3 Units
Prerequisite(s): CPE 142.
Term Typically Offered: Fall, Spring

Fundamental principles of Digital Signal Processing (DSP): sampling theory, aliasing effects, frequency response, Finite Impulse Response filters, Infinite Impulse Response filters, spectrum analysis, Z transforms, Discrete Fourier Transform, and Fast Fourier Transform. Emphasis on hardware design to achieve high-speed real and complex multiplications and additions. Pipelining, Harvard, and modified Harvard architectures are included. Concludes with architectural overviews of modern DSP applications: modems, speech processing, audio and video compression and expansion, and cellular.

CPE 151. Cmos And Vlsi. 3 Units
Prerequisite(s): CPE 64 and EEE 108.
Term Typically Offered: Fall, Spring

Begins with an introduction to CMOS gates and design of CMOS combinational and sequential functions at the gate level, including CMOS memory. The theory of MOS transistors is covered including: DC equations, threshold voltage, body effect, subthreshold region, channel length modulation, tunneling, punch through, basic CMOS invertor, and the CMOS transmission gate. A basic exposure to VLSI includes the following topics: CMOS processing technology, CMOS layout, CMOS circuit design and CMOS logic design. Simulations on SPICE and basic VLSI layouts using LEDIT will be included.

CPE 153. Vlsi Design. 3 Units
Prerequisite(s): CPE 151.
Term Typically Offered: Fall, Spring

Review basic CMOS VLSI technology, circuit characterization and performance estimation, and provides detailed information on synthesis, placing and routing, clocking strategies, quality and reliability, and I/O structures. Design examples, design techniques, and testing techniques will be presented via current EDA design tools. Students assigned one project from concept design through validation.

CPE 159. Operating System Pragmatics. 3 Units
Prerequisite(s): CSC 139.
Term Typically Offered: Fall, Spring

Application of operating system principles to the design and implementation of a multi-tasking operating system. Students will write an operating system for a computer system. Topics include scheduling of processes, control and allocation of computer resources and user interfacing.
Cross Listed: CSC 159; only one may be counted for credit.

CPE 166. Advanced Logic Design. 4 Units
Prerequisite(s): CPE 64, ENGR 17.
Term Typically Offered: Fall, Spring

VHDL and Verilog Hardware Description Languages are studied and used on the following advanced level logic design topics: synchronous state machines, asynchronous state machines, metastability, hazards, races, testability, boundary scan, scan chains, and built-in self-tests. Commercial Electronic Design Automation (EDA) toolsets are used to synthesize lab projects containing a hierarchy of modules into Field Programmable Gate Arrays (FPGAs). Post synthesis simulations by these same tools verify the design before implementation on rapid prototyping boards in the lab.

CPE 185. Computer Interfacing. 4 Units
Prerequisite(s): CPE 64, CSC 35 and CSC 60.
Term Typically Offered: Fall, Spring

Design of microcomputer systems including memory systems, parallel and serial input/output, timer modules, and interrupt structures; designing 'C' language code, in laboratory, to exercise interface modules of parallel and serial input/output, timer modules, and interrupts; extensive study of interrupt handlers, assemblers, linkers, and loaders. Practical features of interfaces, handshaking techniques, displays, keypads, and trackballs are included.

CPE 186. Computer Hardware System Design. 3 Units
Prerequisite(s): CPE 185 or EEE 174.
Term Typically Offered: Fall, Spring

Study of Intel and Motorola architectures, bus structures, interrupts, memory interface and controllers, bus arbitration, DMA controllers, I/O interface, bridges and microcontroller. Electromagnetic compatibility and regulations, cabling and shielding, grounding, digital circuit noise and layout.

CPE 187. Embedded Systems Design. 3 Units
Prerequisite(s): CPE 185 or EEE 174.
Term Typically Offered: Fall, Spring

Introduction to embedded systems with applied projects. The ISA, memory map, register architecture and configuration for one processor are studied in depth. Topics include: Overview of embedded systems; hardware, firmware, and software design; interrupt programming; application of contemporary interfacing protocols like USB and Bluetooth; use of an integrated development environment (IDE) for development; functional debugging; Real Time Operating Systems (RTOS) considerations and scheduling. One two hour lecture and one three hour lab per week.

CPE 190. Senior Design Project I. 2 Units
Prerequisite(s): CPE 142, CPE 166, CPE 186, CPE 187, EEE 108
Term Typically Offered: Fall, Spring

Centers on developing hardware and software project planning and engineering design skills. Emphasis is placed on design philosophies, problem definition, project planning and budgeting, written and oral communication skills, working with others in a team arrangement, development of specifications and effective utilization of available resources. Lecture one hour per week, laboratory three hours per week.

CPE 191. Senior Design Project II. 2 Units
Prerequisite(s): CPE 190, and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Continuation of CPE 190. Students are expected to continue the project started by design teams in CPE 190. The hardware will be completed, tested and redesigned if necessary. At the same time, software for the project will be finished and debugged. The final results of the team project will be presented to the CPE faculty and students at a prearranged seminar. Lecture one hour, laboratory three hours.

CPE 195. Fieldwork in Computer Engineering. 1 - 15 Units
Prerequisite(s): Petition approval by Program Coordinator.
Term Typically Offered: Fall, Spring

Directed observations and work experience in computer engineering with firms in the industry or public agencies. Supervision is provided by the instructional staff and the cooperating agencies. Faculty approval required.
Note: May be repeated for credit.

Credit/No Credit

CPE 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Credit/No Credit

CPE 195B. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Credit/No Credit

CPE 195C. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Credit/No Credit

CPE 199. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to those students who appear competent to carry on individual work. Admission to this course requires approval of the faculty member under whom the individual work is to be conducted, in addition to the approval of the advisor. May be repeated for credit.

CPE 201. Research Methodology. 1 Unit
Prerequisite(s): Fully classified graduate status.
Term Typically Offered: Fall, Spring

Research methodology, problem formulation and problem solving. Collective and individual study of selective issues and problems relating to fields of study in the Computer Engineering Graduate Program. Orientation to the requirements for Master's Thesis or Project in Computer Engineering.
Credit/No Credit

CPE 273. Hierarchical Digital Design Methodology. 3 Units
Prerequisite(s): CSC 205, EEE 285 or their equivalents.
Term Typically Offered: Fall, Spring

Advanced logic modeling, simulation, and synthesis techniques. Topics include modeling, simulation, and synthesis techniques, using Hardware Description Language (HDL's), Register Transfer Level (RTL) representation, high level functional partitioning, functional verification and testing, computer-aided logic synthesis, logical verification and testing, timing and delay analysis, automated place and route process', and design with Application Specific Integrated Circuits (ASICs) and programmable logic.

CPE 274. Advanced Timing Analysis. 3 Units
Prerequisite(s): EEE 273, CSC 273, CPE 273 or instructor permission.
Term Typically Offered: Fall, Spring

Timing analysis of Application Specific Integrated Circuit (ASIC) designs: Topics include ASIC design methodology, static timing analysis, timing design constraints, design reports, clock timing issues, timing exceptions, operating conditions, hierarchical analysis, analyzing designs with asynchronous logic, performance measurement and power issues. Cross-listed: EEE 274; only one may be counted for credit.

CPE 280. Advanced Computer Architecture. 3 Units
Prerequisite(s): CSC 205, fully classified graduate status.
Term Typically Offered: Fall, Spring

Introduction to parallel architecture covering computer classification schemes, fine and course grain parallelism, processor interconnections, and performance issues of multiprocessor systems. Includes parallel and pipelined instruction execution, structure of multiprocessor systems, memory hierarchy and coherency in shared memory systems, programming issues of multiprocessor systems, arithmetic pipeline design, and design for testability.

CPE 296T. Digital Speech Processing. 3 Units
Prerequisite(s): EEE 181 or instructor permission.
Term Typically Offered: Fall, Spring

The objective of this course is to cover the digital processing of speech signals. Topics include speech production and perception, speech processing in the time frequency domains. Short-time energy and Short-time Fourier analysis, homomorphic and linear predictive coding methods. Also covered are speech coding, basic introduction of text-to-speech synthesis and speech recognition.
Cross listed: EEE 296T.

CPE 299. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Open to qualified students who wish to pursue problems of their own choice. Projects must have approval and supervision of a faculty advisor.

CPE 500. Culminating Experience. 5 Units
Prerequisite(s): Advanced to candidacy and graduate coordinator's permission.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the master's degree.
Note: May be repeated for credit.

Computer Science (CSC)

CSC 1. Introduction to Computer Science. 3 Units
Prerequisite(s): Intermediate algebra.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Fundamental concepts of computers, computation and programming; history and principles of computing; problem solving; input, output; data representation, storage, and file organization; computer hardware, networking and data communication; social, economic and ethical implications; computer security and privacy. Students will solve problems using a programming language. Lecture, two hours; technical activity and laboratory, two hours.

CSC 1A. Introduction to Computer Science for Advanced Students. 3 Units
Term Typically Offered: Fall, Spring

Same material as covered in CSC 1 but intended for students who already have significant knowledge of the fundamental concepts of computers and/or computer programming. Students must attend the orientation session during the first class meeting. Two placement tests, one on programming and one on concepts, will be scheduled and used to determine student's prior preparation.
Note: May be taken by those wishing to obtain credit by examination. Please refer to examination credit guidelines in the University catalog. Not open to students who have received credit for CSC 1 or MIS 5.

Credit/No Credit

CSC 5. Personal Computing. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the role and use of personal computers, emphasizing the use and relevancy of common software for word processing, database, spreadsheet analysis, graphics, and communications. Examination of the personal computing milieu and the applications environment. Lecture two hours, technical activity and laboratory two hours.

CSC 8. Introduction to Internet Technologies. 3 Units
Prerequisite(s): Basic computer literacy recommended.
Term Typically Offered: Summer only

Internet applications such as email, instant messaging, file transfer, secure communications, the web, and related tools and protocols. Basics of the web-publishing process and methods used to locate authoritative information on the internet. Webpage design, internet security and emerging technologies on the internet.

CSC 8S. Self-Paced Introduction to Internet Technologies. 3 Units
Prerequisite(s): Basic computer literacy recommended.
Term Typically Offered: Fall, Spring

Covers the same material as CSC 8, Introduction to Internet Technologies. Provided by electronic means in addition to meetings for orientation, laboratory demonstrations, and tests. Internet applications such as Email, instant messaging, file transfer, secure communications, the Web, and related tools and protocols. Basics of the Web-publishing process and methods used to locate authoritative information on the Internet. Webpage design, Internet security and emerging/declining technologies on the Internet.
Credit/No Credit

CSC 10. Introduction to Programming Logic. 3 Units
Prerequisite(s): Math 11 or equivalent
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Introduction to computer science with an emphasis on programming concepts and methodology. Intended to assist students with little or no programming experience to understand the basic principles of programming logic. Topics include computer hardware and software, problem solving and algorithm development, flow of control, modular design using techniques that can be applied to common programming languages. Lecture two hours, technical activity and laboratory two hours.

CSC 10A. Accelerated Introduction to Programming Logic. 3 Units
Term Typically Offered: Fall, Spring

Introduction to computer science with an emphasis on programming concepts, logic, and methodology: computer hardware and software, problem solving and algorithm development, flow of control, and modular design. Accelerated and more in-depth study of programming concepts than CSC 10. Intended for computer science and computer engineering majors who have little or no programming experience. Lecture two house, technical activity and laboratory, two hours. Not open to students who have received credit for CSC 10. Preqrequisite: Math 11

CSC 15. Programming Concepts and Methodology I. 3 Units
Prerequisite(s): CSC 10, or programming experience in a high-level programming language.
Term Typically Offered: Fall, Spring, Summer

Programming concepts using an object-oriented programming language. Introduction to methodologies for program design, development, testing, and documentation. Topics include program design, algorithm design, number systems, classes and objects, methods (functions), control structures, arrays, and interactive input/output. Lecture two hours, technical activity and laboratory two hours.

CSC 15W. Programming Methodology I Workshop. 1 Unit
Corequisite(s): CSC 15.
Term Typically Offered: Fall, Spring, Summer

Designed to assist students in developing a more thorough understanding of programming methodology and problem solving techniques. Activity two hours.
Credit/No Credit

CSC 20. Programming Concepts and Methodology II. 3 Units
Prerequisite(s): CSC 15.
Term Typically Offered: Fall, Spring

Application of object-oriented techniques for systematic problem analysis and specification, design, coding, testing, and documentation. Semester-long project approach emphasizing larger programs. Managing program complexity using abstraction. Introduction to algorithm analysis and Big-O notation. Advanced language features. Basic sorting and searching algorithms. Recursion. Lecture two hours, technical activity and laboratory two hours.

CSC 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Development of information competence and computer literacy. Students interact with fellow students and the seminar leader to build a community of academic and personal support.

CSC 22. Visual Programming in BASIC. 3 Units
Prerequisite(s): Intermediate Algebra.
Term Typically Offered: Fall, Spring

Computer Programming using Visual Basic. Topics include the Visual Basic Integrated Development Environment, visual user interface development, concepts of object-oriented programming, variables, control structures, arrays, functions, subroutines, strings, files, and database access. Applications will be created in areas such as business, games, and multimedia. Lecture two hours, technical activity and laboratory two hours.

CSC 25. Introduction to C Programming. 3 Units
Term Typically Offered: Fall only

Topics include: types, operators, control structures, input/output, arithmetic operations, the C library and preprocessor, functions and parameters, arrays, strings, pointers, and structures. Program design and style will be emphasized. Students will use a compiler.
Note: Students with significant programming experience should take CSC 60 rather than CSC 25. Lecture two hours, technical activity and laboratory two hours.

CSC 28. Discrete Structures for Computer Science. 3 Units
Prerequisite(s): MATH 26A or MATH 29; and CSC 20; CSC 20 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to the essential discrete structures used in Computer Science, with emphasis on their applications. Topics include: counting methods, elementary formal logic and set theory, recursive programming, digital logic and combinational circuits, real number representation, regular expressions, finite automata.

CSC 35. Introduction to Computer Architecture. 3 Units
Prerequisite(s): CSC 15.
Term Typically Offered: Fall, Spring

Internal representation of numeric and non-numeric data, assembly level machine architecture, addressing modes, subroutine linkage, polled input/output, interrupts, high-level language interfacing, macros and pseudo operations. Lecture two hours, technical activity and laboratory two hours.

CSC 60. Introduction to Systems Programming in UNIX. 3 Units
Prerequisite(s): CSC 20, CSC 35.
Term Typically Offered: Fall, Spring

Features of the C language commonly used in systems programming, application to systems programming in a UNIX environment. Topics include C preprocessor macros, I/O, bit-manipulation facilities, timesharing system concepts, file permissions, shell script programming, make files and source code control, basic system calls like fork and exec, pointers and dynamic memory allocation, libraries and relocation and linking concepts including assembler handling of symbol tables. Prior knowledge of a C like programming language is presumed.

CSC 80. Web Development with HTML/XHTML and Tools. 3 Units
Prerequisite(s): CSC 8 or equivalent computer and Internet experience.
Term Typically Offered: Fall, Spring

Hands-on course covering the processes and guidelines for creating and customizing interactive webpages. Emphasis on use of HTML/XHTML, CSS, and tools to create webpages. HTML/XHTML syntax to create, format, and link documents. Use of tables, graphics, styles, forms, multimedia, and other features in webpages. Effective webpage design and website organization. Lecture two hours and technical activity and laboratory two hours.

CSC 114. Digital Evidence and Computer Crime. 3 Units
Prerequisite(s): CSC 1 and CSC 8 or CSC 8S or CSC 80; or instructor permission.
Term Typically Offered: Fall, Spring

Topics include technology and law, computer basics for digital investigations, network basics for digital investigations, investigation of computer crime, and the handling of digital evidence.

CSC 115. Internet Security. 3 Units
Prerequisite(s): CSC 1 and CSC 8 or CSC 8S or CSC 80; or instructor permission.
Term Typically Offered: Summer only

Internet security problems and discussion of potential solutions: network vulnerabilities and attacks, secure communication and use of cryptography, Internet security protocols and tools to defend against network attacks, network intrusion detection, and wireless network security. Survey and use of software tools for network security.

CSC 116. Cyber Forensics. 3 Units
Prerequisite(s): CSC 1 and CSC 8 or CSC 8S or CSC 80; or instructor permission.
Term Typically Offered: Summer only

Fundamentals of computer forensics and cyber-crime scene analysis including laws, regulations, and international standards; formal methodology for conducting security incident investigations; categories of electronic evidence. Projects involving digital forensic tools.

CSC 120. Web Server Administration. 3 Units
Prerequisite(s): CSC 80.
Term Typically Offered: Fall, Spring

Managing and maintaining Web servers. Administering open source and commercial Web servers, Web hosting alternatives, professional standards and practices of website hosting, Web server installation, configuration, management, and security. Selecting and using technologies to support professional quality websites. Lecture two hours; technical activity and laboratory two hours.

CSC 121. Client-Side Web Programming. 3 Units
Prerequisite(s): CSC 22, CSC 80 or equivalents; OR PCSC/CSC Major, CSC 60, CSC 130.
Term Typically Offered: Fall, Spring

Client-side Web programming using JavaScript, DHTML, and client-side Web technologies. Event-driven programming, dynamic data types, control structures, and introduction to object-oriented programming and program design. Use of cookies and built-in objects. Validation and processing of forms. Basic features of the Document Object Model.

CSC 122. Web Database Applications. 3 Units
Prerequisite(s): CSC 10 or CSC 22; and CSC 80 or equivalent.
Term Typically Offered: Fall, Spring

Fundamentals of building effective database-driven web applications. Particular emphasis on database access via web interfaces. Introduction to database management systems, their structure and usage, SQL, integrating web applications with databases, design and implementation of dynamic web database applications.

CSC 123. Web Application Development. 3 Units
Prerequisite(s): CSC 22, CSC 121, CSC 122, or equivalent experience; OR PCSC/CSC Major, CSC 60, CSC 134.
Term Typically Offered: Fall, Spring

Developing multi-tiered enterprise-level Web applications. Standards of Web services and other current Web technologies, including XML, AJAX, and server-side programming such as Java EE, .NET, or PHP. Development of Web applications such as those used for e-commerce, e-business, and content management. Format consists of two 1.5 hour lecture/lab sessions per week.

CSC 126. 3D Computer Modeling. 3 Units
Prerequisite(s): CSC 10 or ART 97 or equivalent.
Term Typically Offered: Fall only

Techniques and processes to create 3D computer models and environments. Exercises, assignments and projects designed to build skill levels with 3D computer modeling tools. Demonstrations and workshops in the use of 3D computer modeling software. Critiques, discussion and presentations to develop students' conceptual grasp of 3D computer modeling and virtual reality environments. Example applications in art/new media and computer gaming.
Note: May be taken twice for credit. Cross-listed as ART 142.

CSC 127. 3D Computer Animation. 3 Units
Prerequisite(s): ART 142 or CSC 126.
Term Typically Offered: Spring only

Creative skills and techniques for animating 3D computer-modeled objects/environments. Topics include animation techniques; keyframing and interpolation; deformation and morphing; path control; skeletal animation; model rigging and skinning; forward and inverse kinematics, constraints and IK solvers; particle systems; fluid, cloth, hair, and fur simulation; shape keys; and soft body animation. Emphasis on both skill development and creative application of modeling and animation techniques. Includes demos, in class and homework excercises, and self directed projects.
Cross-listed: ART 143.

CSC 130. Data Structures and Algorithm Analysis. 3 Units
Prerequisite(s): CSC 20, CSC 28; CSC 28 may be taken concurrently.
Term Typically Offered: Fall, Spring

Specification, implementation, and manipulation of complex data structures: linear/lists, stacks, queues, trees, sets, and graphs. Design and analysis of algorithms. Recursion and stack-based memory management. Advanced searching and sorting. NP-completeness.

CSC 131. Computer Software Engineering. 3 Units
Prerequisite(s): CSC 130; may be taken concurrently.
Term Typically Offered: Fall, Spring

Principles of Software Engineering covering the software development life cycle, including software requirements engineering (elicitation, modeling, analysis and specification), software design, software implementation and testing. Main topics include various software development process models, method and techniques for specifying requirements, architectural and detailed design specification, prototyping, top-down and bottom-up software implementation and testing. Topics also include project management, project documentation and the development of communication skills through written documentation and oral presentation.

CSC 132. Computing Theory. 3 Units
Prerequisite(s): CSC 28, CSC 130; CSC 130 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to computing theory with examples and applications. Automata and formal languages; language recognition and generation; language hierarchy; deterministic and non-deterministic automata; regular expressions; pushdown automata and context-free grammars; properties of regular and context-free languages; Turing machines; computable and noncomputable functions; decidability.

CSC 133. Object-Oriented Computer Graphics Programming. 3 Units
Prerequisite(s): CSC 130, CSC 131.
Term Typically Offered: Fall, Spring

Introduction to computer graphics and advanced topics in object-oriented (OO) programming. The OO paradigm is used throughout, utilizing computer graphics as the vehicle for solidifying basic OO concepts, studying the implementation of event-driven systems, and for developing a thorough understanding of advanced OO concepts such as inheritance and polymorphism. Topics include fundamental concepts of object-oriented programming, software design patterns, graphic devices, line and surface drawing, simple 2D and 3D representation, and use of User Interface components.

CSC 134. Database Management Systems. 3 Units
Prerequisite(s): CSC 130.
Term Typically Offered: Fall, Spring

Entity-Relationship (ER) model; relational model; relational database design by ER-to-relational mapping; design of applications using database technology; SQL; schema definition, constraints, and queries; relational algebra; data normalization; access methods such as indexing and hash structures; introduction to transaction processing.

CSC 135. Computing Theory and Programming Languages. 3 Units
Prerequisite(s): CSC 28, CSC 35, CSC 130.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Introduction to computing theory with examples and applications. Automata and formal languages; regular expressions; deterministic and non-deterministic finite automata; pumping lemma for regular languages; push-down automata and context-free grammars; language recognition; parsing techniques including recursive descent; Turing machines; computable and non-computable functions. Design and implementation of selected features of programming languages. Functional and logic programming paradigms.

CSC 136. Programming Languages. 3 Units
Prerequisite(s): CSC 35, CSC 132.
Term Typically Offered: Fall, Spring

Evolution and characteristics of programming languages. Scripting, procedural, object-oriented, functional and logic paradigms. Language specification; interpreters and compilers; virtual machines; parsing techniques. Design and implementation of selected features of programming languages. Programming languages used in the development of intelligent systems, with introduction to Artificial Intelligence. Trends in programming languages.

CSC 137. Computer Organization. 3 Units
Prerequisite(s): CSC 28, CSC 35, CSC 130
Term Typically Offered: Fall, Spring

Introduction to computer organization and architecture. Combinational devices, sequential and synchronized circuits, memory organization, CPU architecture and organization, bus structures, input/output, interrupts, DMA, memory hierarchy, introduction to instruction level parallelism, multithreading, and multiprocessing. Exposure to hardware security issues.

CSC 138. Computer Networks and Internets. 3 Units
Prerequisite(s): CSC 35, CSC 60, CSC 130.
Term Typically Offered: Fall, Spring

Overview of the fundamentals of computer networks and connections between networks, from the physical layer up through peer-to-peer communications at the application level. Lower layer characteristics including serial vs. parallel, capacity issues, high-speed connections, LAN framing and error handling. LAN vs. WAN characteristics, network architecture and the ISO network model. Internetworking components including LANs, repeaters, routers, bridges, and gateways. Internet addresses, TCP/IP, and the Domain Name System. Common Internet client/server application protocols including SMTP and FTP. Client/Server programming involving sockets. World Wide Web characteristics including CGI and HTTP protocol, Web pages, Web browsers, Web servers, and Applets. Introduction to advanced Web issues such as Web security, search engine operations, and Web database operations.
Cross Listed: CPE 138; only one may be counted for credit.

CSC 139. Operating System Principles. 3 Units
Prerequisite(s): CSC 60 and CSC 130, and either CSC 137 or CPE 185
Term Typically Offered: Fall, Spring

Concepts, principles, fundamental issues, organization and structure of contemporary operating systems. Topics include processes, threads, concurrency, scheduling, inter- process communication and synchronization, deadlock, real and virtual memory management, device management, file systems, network and distributed operating systems, security, and protection.

CSC 140. Advanced Algorithm Design and Analysis. 3 Units
Prerequisite(s): CSC 130.
Term Typically Offered: Spring only

Algorithm design using dynamic programming, randomization and greedy methods. Analysis using recurrence relations and amortization. String and network-flow algorithms. NP-completeness, reductions, and approximation algorithms. Review of divide-and-conquer design and asymptotic notation.

CSC 142. Advanced Computer Organization. 3 Units
Prerequisite(s): CSC 137 or CPE 166 and CPE 185.
Term Typically Offered: Fall, Spring

Design and performance issues of computers. Instruction set architecture, computer arithmetic, processor design, survey of contemporary architectures, interfacing I/O devices, hierarchal memory design and analysis, parallelism and multiprocessing, distributed systems, techniques for enhancing performance, and an introduction to EDA tools for design and verification of computers. Design and simulation of a microcomputer in an HDL.
Note: Open to students with full CSC or CPE major standing only. Cross Listed: CPE 142; only one may be counted for credit.

CSC 148. Modeling and Experimental Design. 3 Units
Prerequisite(s): MATH 26B or MATH 31, STAT 50 or ENGR 115, and proficiency in a programming language.
Term Typically Offered: Not offered

Modeling and simulation techniques; Monte Carlo methods; queuing theory; model formulation, data collection and analysis, experimental design; model verification and validation.

CSC 151. Compiler Construction. 3 Units
Prerequisite(s): CSC 135
Term Typically Offered: Fall only

Practical approach to compiler design and implementation. Organization of a compiler, algorithms for lexical, syntactic and semantic analysis, recursive descent and/or LALR parsing, organization of symbol tables, error detection and recovery, object code generation. Modular design will be emphasized.

CSC 152. Cryptography. 3 Units
Prerequisite(s): CSC 60, CSC 130; and STAT 50 or ENGR 115
Term Typically Offered: Fall only

Introduction to design and analysis of cryptographic systems. Symmetric cryptography: Block ciphers and secure hash functions. Asymmetric cryptography: Key exchange and public-key systems. Authentication and encryption in an adversarial model. Simple cryptanalysis. Protocol design and analysis.

CSC 153. Computer Forensics Principles and Practices. 3 Units
Prerequisite(s): CSC 138 or CPE 138.
Term Typically Offered: Spring only

Fundamentals of computer forensics, cyber-crime scene analysis and electronic discovery. Technical and formal methodology for conducting security incident investigations; file systems and storage analysis, data hiding techniques, network forensics; projects involving using, understanding, and designing digital forensics tools; anti-forensics; legal issues and standards.

CSC 154. Computer System Attacks and Countermeasures. 3 Units
Prerequisite(s): CSC 138 or CPE 138.
Term Typically Offered: Fall only

Introduction to network and computer security with a focus on how intruders gain access to systems, how they escalate privileges, and what steps can be taken to secure a system against such attacks. Topics include: Perimeter defenses, intrusion detection systems, social engineering, distributed denial of service attacks, buffer overflows, race conditions, trojans, and viruses.

CSC 155. Advanced Computer Graphics. 3 Units
Prerequisite(s): CSC 133.
Term Typically Offered: Fall only

Modeling, viewing, and rendering techniques in 3D computer graphics systems. Topics include modeling systems and data structures; polygonal and parametric surface representation; transformations, windowing, clipping and projections in 3D; hidden surface removal algorithms; techniques for realism such as shading, shadows, highlights, and texture; fractals and procedural models; introduction to animation; hardware support for computer graphics; and the application of graphics principles to virtual reality systems and 3D games.

CSC 159. Operating System Pragmatics. 3 Units
Prerequisite(s): CSC 139.
Term Typically Offered: Fall, Spring

Application of operating system principles to the design and implementation of a multitasking operating system. Students will write an operating system for a computer platform. Topics include: scheduling of processes, control and allocation of computer resources, and user interfacing.
Cross Listed: CPE 159; only one may be counted for credit.

CSC 163. Parallel Programming with GPUs. 3 Units
Prerequisite(s): CSC 60, CSC 130, CSC 137; and either MATH 30 or MATH 26A.
Term Typically Offered: Fall, Spring

Parallel programming with emphasis on developing GPU computing applications. Topics include the GPU architecture and programming model, mapping computations to parallel hardware, parallel computation patterns, parallel programming optimization techniques, and application case studies.

CSC 165. Computer Game Architecture and Implementation. 3 Units
Prerequisite(s): CSC 130; CSC 133; MATH 26A or MATH 30; PHYS 5A or PHYS 11A.
Term Typically Offered: Spring only

Architecture and implementation of computer game systems. Topics include game engine architecture; screen management and rendering control; geometric models; algorithms and data structures for spatial partitioning, occlusion, and collision detection; real-time interactive 3D graphics and animation techniques; behavioral control for autonomous characters; simulation of physical phenomena; sound and music in games; optimization techniques; multi-player games and networking; game development tools and environments. Substantial programming and project work.

CSC 170. Software Requirements and Specification. 3 Units
Prerequisite(s): CSC 131.
Term Typically Offered: Spring only – odd years

Analysis and specification of functional and non-functional requirements for real-time and non-real-time software systems in the context of a software development lifecycle. Determining customer and user software requirements and ensuring that specifications are correct, complete, and testable. Includes modeling techniques, methods for representing real-time requirements, and the use of Computer-Aided Software Engineering (CASE) tools to illustrate analysis concepts.

CSC 171. Software Engineering Project Management. 3 Units
Prerequisite(s): CSC 131.
Term Typically Offered: Spring only – even years

Fundamental issues in the management and economics of a software engineering project in the context of the software development lifecycle. Topics include: techniques for project planning (budgeting and scheduling), controlling (including quality assurance and configuration management), organizing, staffing, and directing a software project (leadership and motivation); and contemporary issues in management.

CSC 174. Advanced Database Management Systems. 3 Units
Prerequisite(s): CSC 131, CSC 134.
Term Typically Offered: Fall only

Enhanced Entity-Relationship (EER) modeling; relational database design based on EER; SQL views; integrity constraints and triggers; stored procedures and functions; database programming techniques; query processing and optimization; transactions concurrency and recovery techniques; relational decomposition and normalization algorithms; database schema and data security.

CSC 176. Database Architecture and Optimization. 3 Units
Prerequisite(s): CSC 174.
Term Typically Offered: Spring only

Advanced object-relational systems, advanced catalog systems, security mechanisms, distributed database processing, advanced schema design-partitioning, introduction to data warehousing and data mining, materialized views, Internet technologies, parallel query processing, system utilities, database tuning, DBA tools and techniques.

CSC 177. Data Analytics and Mining. 3 Units
Prerequisite(s): CSC 134 and STAT 50 or ENGR 115.
Term Typically Offered: Spring only

Theory and implementation of techniques for data analytics and mining with emphasis on big data. Topics include data cleaning, exploratory data analysis, data visualization, feature engineering, classification, clustering, association rule mining, predictive model evaluation, parameter tuning, natural language processing, and selected advanced data mining topics. Design and implementation of systems using contemporary data analysis and mining programming libraries for automatic discovery of patterns and knowledge.

CSC 179. Software Testing and Quality Assurance. 3 Units
Prerequisite(s): CSC 131.
Term Typically Offered: Spring only – even years

Testing, verification, validation, and control of real-time and non-real-time software systems in the context of a software development lifecycle. Topics include: unit, integration and system testing; verification and validation (V&V), quality assurance, metrics, and configuration management.

CSC 180. Intelligent Systems. 3 Units
Prerequisite(s): MATH 26B or MATH 31; STAT 50 or ENGR 115; CSC 130 and CSC 135.
Term Typically Offered: Spring only

Theory and implementation of a variety of techniques used to simulate intelligent behavior. Expert systems, fuzzy logic, neural networks, evolutionary computation, and two-player game-tree search will be covered in depth. Knowledge representation, pattern recognition, hybrid approaches, and handling uncertainty will also be discussed.

CSC 190. Senior Project: Part I. 2 Units
Prerequisite(s): Senior status, completion of CSC 130, CSC 131 and four additional 3-unit CSC upper-division courses that fulfill the major requirements (excluding CSC 192-195, 198, 199), and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

First of a two-course sequence in which student teams undertake a project to develop and deliver a software product. Approved project sponsors must be from industry, government, a non-profit organization, or other area. Teams apply software engineering principles in the preparation of a software proposal, a project management plan and a software requirements specification. All technical work is published using guidelines modeled after IEEE documentation standards. Oral and written reports are required. Lecture one hour, laboratory three hours.

CSC 191. Senior Project-Part II. 2 Units
Prerequisite(s): CSC 190.
Term Typically Offered: Fall, Spring

Continuation of the group project begun in CSC 190. Teams apply software engineering principles to the design, implementation and testing of their software product. All technical work is published using guidelines modeled after IEEE documentation standards along with an appropriate user manual. Oral and written reports are required. Senior project is completed with the successful delivery, installation and demonstration of the software along with all approved documentation. Lecture one hour, laboratory three hours.

CSC 192. Career Planning. 1 Unit
Prerequisite(s): CSC 130 and three additional upper-division courses that fulfill major requirements with a C- grade or better (excluding CSC 190-195, CSC 198, and CSC 199).
Term Typically Offered: Fall, Spring

Designed to help students learn more about the labor market and opportunities in the Computer Science field. Students will examine their interests, consider their goals, and learn how to conduct an effective proactive job search. Strategies for long term career growth will be identified.
Credit/No Credit

CSC 194. Computer Science Seminar. 1 Unit
Prerequisite(s): Upper division or graduate status in CSC.
Term Typically Offered: Spring only

Series of weekly seminars on Computer Science topics. These topics cover subjects not normally taught in the course of a school year and they range from the very theoretical in Computer Science through applications to presentations by industry on working conditions, real world environment and job opportunities.
Note: May be repeated for credit.

CSC 195. Fieldwork in Computer Science. 1 - 4 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Directed observations and work experience in computer science with firms in the industry or public agencies. Supervision is provided by the instructional staff and the cooperating agencies.
Note: Faculty approval required. May be repeated for credit.

Credit/No Credit

CSC 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the Career Center.
Note: Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit

CSC 195B. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the Career Center.
Note: Requires satisfactory completion of the work assignment and a written report.

Credit/No Credit

CSC 196P. Cloud and Mobile Computing Pragmatics. 3 Units
Prerequisite(s): CSC 134, CSC 138, and CSC 139
Introduction to cloud computing. Cloud services. Deployment options. The installation, configuration, and deployment of a cloud infrastructure based upon industrial standards. Step-by-step cloud setup as well as the development of scripts for automated deployment. The installation, building, deployment, testing, and provisioning of a multi-tier cloud based mobile application as a cloud service.

CSC 196V. Data Visualization. 3 Units
Prerequisite(s): CSC 130, CSC 134, and STAT 50 or ENGR 115.
Term Typically Offered: Fall, Spring

Design principles and concepts for visualizing data; current visualization systems and languages, exploratory data analysis, interaction techniques, high-dimensional data, network visualization, and text visualization.

CSC 198. Co-Curricular Activities in Computer Science. 1 - 3 Units
Term Typically Offered: Fall, Spring

Students will serve in leadership roles in computer science activities, provide tutoring or technical assistance in labs, assist instructors in grading coursework, or assist in other activities related to the subject matter and concerns of the department.
Credit/No Credit

CSC 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading in specified topics in computer science.
Note: Open only to students who appear competent to carry on individual work; approval of faculty supervisor and advisor required. May be repeated for credit.

Credit/No Credit

CSC 201. Programming Language Principles. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Notations for the specification of programming language syntax and semantics; attribute, translational, operational, axiomatic, algebraic, denotational, and action semantics. Applications of programming language syntax and programming language semantics. Use of meta languages to generate executable language definitions for language implementation, program transformation, program property analysis, and rapid software prototyping. Principles of logic, functional, and object-oriented programming languages.

CSC 204. Data Models for Database Management Systems. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Database management system (DBMS) architecture; database file organizations and access methods; the relational model and relational algebra; SQL query language; introduction to query optimization; concurrent transaction processing and backup and recovery; applications using embedded SQL, object types, and stored procedures; database analysis and design notations: EER, UML, and XML; web database environments; database security and administration throughout course.
Note: Not intended for students who have completed CSC 174.

CSC 205. Computer Systems Structure. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering or Computer Engineering.
Term Typically Offered: Fall, Spring

Overview of computer systems organization and design. Concepts of instruction set architecture, interactions of hardware-software interface, principles of performance analysis, processor design, instruction level parallelism, survey of contemporary architectures, hierarchical memory design and analysis, interfacing I/O devices, parallel processing and multiprocessing, and introduction to EDA tools and methodologies for computer systems design and verification.

CSC 206. Algorithms And Paradigms. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Design and analysis of algorithms. Classical design paradigms including greedy, divide-and-conquer, dynamic programming, and backtracking algorithmic methods. Alternative paradigms of computing including parallel and numerical approaches. Theoretical limits of computation. Selected additional topics such as genetic, approximation, and probabilistic algorithms.

CSC 209. Research Methodology. 1 Unit
Prerequisite(s): Enrolled in at least 3 units of 200-level courses in Computer Science.
Term Typically Offered: Fall, Spring

Research methodology, problem formulation, and problem solving. Orientation to the requirements for Master's Thesis or Project. Presentations on various research topics.
Credit/No Credit

CSC 212. Bioinformatics: Data Integration and Algorithms. 3 Units
Prerequisite(s): CSC 130, STAT 50, and graduate status; BIO 10 recommended.
Term Typically Offered: Fall, Spring

The application of information technology and computer science to biological problems, in particular to biomedical science issues involving genetic sequences. Algorithms and their applications to DNA sequencing and protein database search; tools and techniques for data integration to transform genetic sequencing data into comprehensible information to study biological processes.

CSC 214. Knowledge-Based Systems. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Historical perspective of knowledge-based systems and their relationship to artificial intelligence. Concepts of knowledge representation and automated reasoning. Survey of expert systems in a variety of applications in engineering and other fields. Implementation of expert systems and expert system shells.

CSC 215. Artificial Intelligence. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering or Computer Engineering.
Term Typically Offered: Fall, Spring

Nature of intelligence and possibility of its realization on digital computers via algorithmic and heuristic programming methods. Knowledge representation. Search procedures. Problem-solving paradigms and simulation of cognitive processes. Machine learning. Natural language understanding, expert systems, and knowledge engineering. Image understanding. Future of artificial intelligence and limits of machine intelligence.

CSC 219. Machine Learning. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering or Computer Engineering.
Term Typically Offered: Fall, Spring

Introduction to major paradigms and methods of machine learning. Inductive learning, explanation-based learning, classifier systems and genetic algorithms, analogical reasoning, case-based learning, connectionist learning, data driven approaches to empirical discovery, and basis of learning theory. Focus is on representative systems that have been built.

CSC 230. Software System Engineering. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering; or Computer Engineering and CSC 131.
Term Typically Offered: Fall, Spring

Integration of managerial and technical activities in system engineering that control the cost, schedule, and technical achievement of the developing software system. Application of the principles, activities, tasks and procedures of system engineering and software engineering to the development of a software system.

CSC 231. Software Engineering Metrics. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Software quality and quantity metrics in software engineering. Measurement theory and metrics. Metrics include management metrics, indirect and direct metrics and predictive metrics. Uses of metrics include software cost and schedule estimates, model calibration, and software productivity measurements. Metrics techniques include the Goal-Question-Metric approach, COCOMO, and function point analysis.

CSC 232. Software Requirements Analysis and Design. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Software engineering requirements including elicitation, analysis, specification, verification and management. Emphasizes IEEE software engineering requirements and standards and the concept of operations (ConOps) document. Techniques include structured analysis, use cases and object-oriented analysis.

CSC 233. Advanced Software Engineering Project Management. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Advanced methods and procedures for managing a software development project. Includes project planning, scheduling, and cost estimation, project organizational types, staffing and training considerations, leading and motivating computer personnel, and methods for measuring and controlling a project. Emphasizes IEEE software engineering management standards and keys to project success.

CSC 234. Software Verification and Validation. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering; or Computer Engineering and CSC 131.
Term Typically Offered: Fall, Spring

Verification and validation (V & V) techniques to identify and resolve software problems and high-risk issues early in the software lifecycle. Application of V & V to all phases of the lifecycle process. Includes planning and reporting on the V & V effort. Topics also include software quality assurance and software testing.

CSC 235. Software Architecture. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Software architecture styles. Concepts and activities for software architecture design. Notations, models, and specification languages for software architecture design. Engineering discipline and guidance for software architecture design. Techniques, methods, tools for designing, building, analyzing, and evaluating software architecture. Object-oriented approach for software architecture design. Architecture-based software development. Management of software architecture design. Reuse of software architecture design.

CSC 236. Formal Methods in Secure Software Engineering. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Basic concepts of formal methods in secure software engineering; formal methods based software development models and methodologies; formal methods for software system specification, modeling, analysis, verification, information assurance and security; systems and tools for the application of formal methods in secure software engineering; advances of formal methods in secure software engineering.

CSC 237. Microprocessor Systems Architecture. 3 Units
Prerequisite(s): CSC 205.
Term Typically Offered: Fall, Spring

Microprocessor/microcomputer architecture and hardware/software interfacing design. RISC v. CISC architecture in-depth, case studies of several popular commercial advanced 32-bit microprocessors. Microcomputer firmware architecture is discussed and illustrated with detailed examples. Term project in which students specify, design and build the hardware and firmware of a computer system.

CSC 238. Human-Computer Interface Design. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Issues involved in design of interaction between people and computers. Insight and experience in key issues of HCI design. Emphasis on identifying issues and tradeoffs in interaction design. Development and evaluation of alternative solutions to design problems.

CSC 239. Advanced Operating Systems Principles and Design. 3 Units
Prerequisite(s): CSC 205.
Term Typically Offered: Fall, Spring

Advanced concepts of concurrent processes, concurrent programming and operating systems. Virtual memory management systems, deadlock, file systems, operating system performance measurement and evaluation.

CSC 242. Computer-Aided Systems Design and Verification. 3 Units
Prerequisite(s): CSC 205 or CSC/EEE 273.
Term Typically Offered: Fall, Spring

Design and verification methodology using hardware description and verification languages (HDVLs). Advances in IC chip design; introduction to HDVLs such as System Verilog; HDVL language basics including data types, arrays, structures, unions, procedural blocks, tasks, functions, and interface concepts; design hierarchy; verification planning and productivity; verification infrastructure; guidelines for efficient verification of large designs; assertion-based verification; comprehensive computer-related design projects.

CSC 244. Database System Design. 3 Units
Prerequisite(s): CSC 174 or CSC 204.
Term Typically Offered: Fall, Spring

Topics in the design and implementation of database management systems. Database system concepts and architectures; query compiler, query processing algorithms, logical and physical query plans, query optimization; recovery, concurrency control; transaction management in centralized database management systems and distributed database management systems. Also exploration of current research directions, issues, and results related to databases and data management.

CSC 245. Performance Modeling and Evaluation. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Performance and cost measures; software and hardware performance monitors; data reduction and evaluation; analytic and simulation models of hardware and program behavior; performance-cost trade-offs and resource allocation.

CSC 250. Computer Security. 3 Units
Prerequisite(s): Fully classified graduate standing in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

Principles and technologies behind computer security. Introduction to encryption and decryption; security mechanisms in computer programs, operating systems, databases, and networks; administration of computer security, and legal and ethical issues.

CSC 251. Principles of Compiler Design. 3 Units
Prerequisite(s): CSC 151 or CSC 201.
Term Typically Offered: Fall, Spring

Programming language translation, lexical analysis, syntax analysis including LR, LALR, and predictive techniques. Semantic analysis including semantic specification. Code generation and optimization including control and data flow analysis. Storage management. Error detection and recovery.

CSC 252. Cryptography Theory and Practice. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

Introduction to design and analysis of cryptographic systems. Symmetric cryptography: block ciphers and secure hash functions. Asymmetric cryptography: key exchange and public-key systems. Authentication and encryption in an adversarial model. Simple cryptanalysis. Protocol design and analysis.

CSC 253. Computer Forensics. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

Structured security incident investigations internal and external; emphasis on analysis of electronic evidence and proper audit; utilization of scientific aids in obtaining information from computing devices; legal electronic evidence.

CSC 254. Network Security. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Computer Engineering, or Software Engineering.
Term Typically Offered: Fall, Spring

In-depth study of network security problems and discussion of potential solutions. Topics include: network vulnerabilities and attacks, secure communication, Internet security protocols and tools to defend against network attacks, network intrusion detection, and wireless network security. Survey and demonstration of software tools used for network security.

CSC 255. Computer Networks. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering, or a Computer Engineering.
Term Typically Offered: Fall, Spring

Computer networking fundamentals with emphasis on higher level protocols and functions. Network design considerations, software design and layering concepts, interface design, routing and congestion control algorithms, internetworking, transport protocol design, and end-to-end communication, session and application protocols. Specific examples of commercial and international standards.

CSC 258. Distributed Systems. 3 Units
Prerequisite(s): CSC 204 and fully classified graduate status in Computer Science, Software Engineering, or Computer Engineering.
Term Typically Offered: Fall, Spring

Distributed system architectures, distributed object model, component-based design, time and global states, coordination and agreement, distributed transactions and concurrency control, replication, security, distributed multimedia systems, message passing and distributed shared memory, Web services and Service-Oriented Architecture (SOA), Grid computing. Emphasis on scalability, manageability, security, and dependability of distributed systems.

CSC 273. Hierarchical Digital Design Methodology. 3 Units
Prerequisite(s): CSC 205, CPE 64, or equivalent.
Term Typically Offered: Fall, Spring

Advanced logic modeling, simulation, and synthesis techniques. Topics include modeling, simulation, and synthesis techniques, using Hardware Description Language (HDL's), Register Transfer Level (RTL) representation, high-level functional partitioning, functional verification and testing, computer-aided logic synthesis, logical verification and testing, timing and delay analysis, automated place and route process, and design with Application Specific Integrated Circuits (ASICs) and programmable logic.
Cross Listed: EEE 273; only one may be counted for credit.

CSC 275. Advanced Data Communication Systems. 3 Units
Prerequisite(s): Fully classified graduate status in Computer Science, Software Engineering, or Computer Engineering.
Term Typically Offered: Fall, Spring

Fundamental concepts, principles and issues of data communication systems. The ISO/OSI reference model is used as a vehicle for discussion and emphasizes the lower layer of the model. Specific topics include: motivation and objectives, layered architectures, physical layer principles and protocols, data link and medium access control principles and protocols, circuit, packet and cell switching, local area network design principles and performance comparisons, high speed networking, introduction to wide area network architectures. Typical examples and standards are cited for point-to-point, satellite, packet radio and local area networks.

CSC 280. Advanced Computer Architecture. 3 Units
Prerequisite(s): CSC 205 and fully classified graduate status in Computer Science or Software Engineering.
Term Typically Offered: Fall, Spring

Introduction to parallel architecture covering computer classification schemes, fine and coarse grain parallelism, processor interconnections, and performance issues of multiprocessor systems. Includes parallel and pipelined instruction execution, structure of multiprocessor systems, memory hierarchy and coherency in shared memory systems, programming issues of multiprocessor systems, arithmetic pipeline design, and design for testability.
Cross Listed: EEE 280; only one may be counted for credit.

CSC 288. Special Topics in Computer Science - Software Engineering. 3 Units
Term Typically Offered: Fall, Spring

Contemporary topics in computer science will be offered as needed. Topics offered:

CSC 295. Fieldwork. 1 - 3 Units
Term Typically Offered: Fall, Spring

Directed observations and work experience in computer science with firms in the industry or public agencies. Supervision is provided by the instructional staff and the cooperating agencies.
Note: Faculty approval required. May be repeated for credit.

Credit/No Credit

CSC 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Any properly qualified student who wishes to pursue a problem of his own choice may do so if the proposed subject is acceptable to the member of the staff with whom he/she works and to his/her advisor.
Note: May be repeated for credit.

Credit/No Credit

CSC 500. Master's Thesis. 1 - 5 Units
Prerequisite(s): CSC 209; advanced to candidacy.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree.
Note: May be repeated for credit.

CSC 502. Master's Project. 1 - 2 Units
Prerequisite(s): CSC 209; advanced to candidacy.
Term Typically Offered: Fall, Spring

Completion of a project approved for the Master's degree.

Construction Management (CM)

CM 9. Construction Surveying and Layout. 3 Units
Prerequisite(s): CM 10, CM 20, CM 21 and either Math 26A or MATH 30 ; CM 21 and Math 26A or MATH 30 may be taken concurrently.
Corequisite(s): CM 21.
Term Typically Offered: Fall, Spring

Geomatics and the principles of surveying measurements for distance, direction, and elevation. Special emphasis on the application of surveying skills relevant to the field of construction, including building, bridge, and sitework layout techniques and procedures, establishment of reference line and grade, topographic mapping, and earthwork computations. Lecture two hours. Laboratory 3 hours.

CM 10. The Construction Industry. 1 Unit
Term Typically Offered: Fall, Spring

Introduction to the Construction Management program and the many facets of the construction industry and to the various career opportunities. The unique products of construction, the organizations involved, and the people that make it happen. Guest speakers. Lecture one hour.
Credit/No Credit

CM 15. Fundamentals of Construction Management. 3 Units
Prerequisite(s): CM 10. CM 10 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to the Construction Management program and industry. Critical reading, thinking and writing for the construction profession. Introduction to visualization and graphic communication using both manual and computer assisted techniques. Introduction to quantitative software commonly used in the construction industry.

CM 20. Construction Materials and Processes. 3 Units
Prerequisite(s): CM 10, ENGL 1A; CM 10 may be taken concurrently.
Term Typically Offered: Spring only

Introduction to construction materials; to their properties in-place in completed projects, and to their characteristics that affect construction processes. The organizations, methods, equipment and safety considerations that are common to projects of all types and to all segments of the industry. Field trips. Lecture two hours; laboratory three hours.
Field trip(s) may be required.

CM 21. Construction Graphics. 3 Units
Prerequisite(s): ENGL 1A and CM 10; CM 10 may be taken concurrently.
Term Typically Offered: Fall only

Instruction and exercises in graphic techniques and procedures applicable to construction. Analysis of drawings in the civil, architectural, structural, mechanical, and electrical fields and how drawings affect construction planning. Freehand sketching. Isometric and oblique projections. Material quantity surveying. Lecture two hours; laboratory three hours.

CM 22. Construction Documents. 3 Units
Prerequisite(s): ENGL 1A, CM 20, and CM 21; CM 20 may be taken concurrently.
Term Typically Offered: Spring only

Analyzes construction contract documents. Technical and legal interpretations and implications to managers of the construction process. Quantity surveying. Lecture two hours; laboratory three hours.

CM 30. Engineering Mechanics--Statics. 3 Units
Prerequisite(s): MATH 26A or MATH 30; and PSYC 5A or PSYC 11A.
Term Typically Offered: Spring only

Introduction to the solution of engineering design problems. Concepts of units, vectors, equilibrium, forces, force systems, shear and moment diagrams. Lecture three hours.

CM 40. Properties of Construction Materials. 3 Units
Prerequisite(s): PHYS 5A.
Term Typically Offered: Fall only

Study of the engineering performance characteristics of materials. Covers testing concepts and procedures. Includes basic properties of metals, aggregates, cements, concrete, timber, asphalt, masonry and plastics with emphasis on construction applications. Lecture two hours; laboratory three hours.

CM 110. Legal Aspects of Construction. 3 Units
Prerequisite(s): Senior class standing, MGMT 101, CM 22.
Corequisite(s): CM 126
Term Typically Offered: Fall only

Application of advanced legal concepts to the construction process. Analyzes problems relating to contract formation, administration, and interpretation. Includes bidding and contract enforcement; litigation of disputes vs. arbitration; liability for negligence, warranty, and strict liability; safety; license law requirements; mechanics' liens and stop notices; bond rights and obligations. Lecture three hours.

CM 111. Construction Labor Relations. 3 Units
Term Typically Offered: Spring only

Study of federal and state labor law; labor unions, and their importance in the construction industry; and an analysis of the growth of open-shop construction. Employment law. Lecture three hours.

CM 120. Construction Operations and Methods Analysis. 3 Units
Prerequisite(s): CM 22.
Corequisite(s): CM 121.
Term Typically Offered: Fall only

Introduction to the analysis and management of construction projects in terms of the work that must be performed in the construction process. Analyzes operations and methods using concepts and techniques, including video, that are applicable to all types of projects in all segments of the industry, variables affecting productivity. Safety as an integral part of project and operations management. Field trips. Lecture two hours; laboratory three hours.
Field trip(s) may be required.

CM 121. Fundamentals of Construction Estimating. 3 Units
Prerequisite(s): CM 22.
Corequisite(s): CM 120.
Term Typically Offered: Fall only

Study of the basic approaches to estimating the cost of construction projects from a managerial viewpoint. Types of estimates and methods; elements of cost, variables and costing concepts; analysis procedures for detailed estimates. Lecture two hours; laboratory three hours.

CM 124. Engineering Construction. 3 Units
Prerequisite(s): CM 125, CM 135.
Term Typically Offered: Fall only

Study of engineering construction projects with emphasis on equipment-paced operations including safety aspects. Engineering fundamentals and other factors that affect equipment selection and production. Amplification of recording and analysis techniques. Unit price contracts. Field trips. Lecture two hours; laboratory three hours.
Field trip(s) may be required.

CM 125. Advanced Estimating and Bidding. 3 Units
Prerequisite(s): CM 120, CM 121.
Term Typically Offered: Spring only

Study of the concepts and practices involved in the total estimating and bidding process in construction, from initial project selection to submission of final bids. Covers considerations in project selection, sub-bid analysis, contingency and risk analysis, pricing concepts, bidding models, and an introduction to computer applications. A complete project estimate and bid is prepared by each student. Lecture two hours; laboratory three hours.

CM 126. Construction Project Management. 3 Units
Prerequisite(s): CM 125, CM 127.
Corequisite(s): CM 110.
Term Typically Offered: Fall only

Introduction to the study of Project Management as it is used on the larger construction project. Students study how construction contractors manage cost, time, scope, and quality. The theory of Project Management is developed and compared to management of the on-going business enterprise. Matrix and functional organizations are examined within the context of the industrial, commercial and heavy contract construction industries using the principles of the management process. Lecture three hours.

CM 127. Planning, Scheduling and Control. 3 Units
Prerequisite(s): CM 121.
Term Typically Offered: Spring only

Study of the concepts used in planning and controlling construction projects. Arrow, PERT, precedence, and linear scheduling methods; resource leveling; time-cost analysis; bar charts; and time-scaled diagrams. Manual procedures followed by computer applications. Lecture three hours.

CM 129. Senior Project. 3 Units
Prerequisite(s): CM 110, CM 111, CM 124, CM 126, HROB 101.
Term Typically Offered: Spring only

Consideration of technical, legal, business and human factors (including safety) in applying the functional approach to the management of construction organizations, projects, and operations. The individual construction professional in a competitive industry: personal and professional development, ethics, stress, physical and mental health. The industry and the construction professional in relation to the social and physical environments. Lecture three hours.

CM 130. Structures I -- Design Principles and Structural Steel Design. 3 Units
Prerequisite(s): CM 30, CM 40; CM 40 may be taken concurrently.
Term Typically Offered: Fall only

Introduction to structural design. Consideration of load conditions, stresses, strain, beam deflection and column action. Basic design of structural steel members with emphasis on systems used in practical situations. Beams, trusses, and columns are designed using the Uniform Building Code as a reference and the results are shown on detailed drawings and sketches. Lecture three hours.

CM 135. Soils and Foundations. 3 Units
Prerequisite(s): CM 130.
Term Typically Offered: Spring only

Study of the properties and behaviors of soils used as materials in construction. Index and physical properties of soils including compaction; permeability, compressibility, and shear strength. Methods of laboratory and field tests. Principles of foundation design, pavements, embankments and temporary soil support systems for trenches and cuts. Lecture two hours; laboratory three hours.

CM 136. Principles of Mechanical and Electrical Engineering. 3 Units
Prerequisite(s): PHYS 5B, CM 30.
Term Typically Offered: Fall only

Basic principles of thermodynamics with application to heating, ventilating and air conditioning systems. Introduction to electrical circuits and circuit analysis with construction applications. Lecture three hours.

CM 140. Structures II -- Timber and Formwork Design. 3 Units
Prerequisite(s): CM 130.
Term Typically Offered: Spring only

Basic design of structural timber members with emphasis on systems used in practical situations. Beams, trusses, and columns are designed using the Uniform Building Code as a reference and the results are shown on detailed drawings and sketches. Application of engineering principles to satisfy construction requirements that are not designed or shown in typical construction documents. Includes analysis and design of concrete form systems, shoring, and falsework, and construction dewatering. Lecture three hours.

CM 150. Structures III -- Reinforced Concrete and Reinforced Masonry. 3 Units
Prerequisite(s): CM 130.
Term Typically Offered: Fall only

Basic design concepts of reinforced concrete and reinforced masonry design. Topics and examples include design of beams, slabs, columns and walls. Students are required to demonstrate drafting ability. Assignments include design and drawings of various structural systems. Lecture three hours.

CM 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students competent to carry on individual work. Admission to this course requires approval of an instructor and the program coordinator.

Credit/No Credit

Criminal Justice (CRJ)

CRJ 1. Introduction to Criminal Justice and Society. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Reviews the problem of crime and the societal response to criminals. Institutions discussed are those intended to discover the crime and the criminal and those designed to deal with the criminal, the victim, and society, once the criminal has been labeled. Finally, the bureaucracy of crime and its measurement as a social phenomenon are discussed.

CRJ 2. Law of Crimes. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the case method of studying criminal law. Understanding and correlating the common law crimes and substantive law crimes. Study and emphasis on the classification and nature of crimes, the requisite elements of the major common law felonies and criminal responsibility of various persons involved in crime.

CRJ 4. General Investigative Techniques. 3 Units
Term Typically Offered: Fall, Spring

Techniques involved in the investigation of crimes; interview of victims and witnesses; questioning of suspects; organization and procedure in the investigation of crimes; crime scene searches; surveillance; use of scientific aids; and sources of information.

CRJ 5. The Community and the Justice System. 3 Units
Term Typically Offered: Fall, Spring

Examines complex, dynamic relationships between communities and the justice system in addressing crime and conflict with emphasis on the challenges and prospects of administering justice within a diverse, multicultural population and the roles played by race, ethnicity, gender, religion, sexual orientation, age, social class, culture, and justice professionals in shaping relationships within the justice system. Special topics include crime prevention, restorative justice, and conflict resolution and pure justice.

CRJ 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Also provide students with an opportunity to interact with fellow students and the seminar leader and to build a community of academic and personal support.

CRJ 101. Introduction to Criminal Justice Research Methods. 3 Units
Prerequisite(s): Restricted to Criminal Justice majors
Term Typically Offered: Fall, Spring

Introduction to research methodologies used in the social sciences, with a special emphasis on those methods most often used in the study of crime and criminal behavior, police/court systems, and correctional institutions, policies, and programs. Students will acquire the knowledge and skills necessary to understand, critically analyze and assess descriptive and quantitative research studies. Topics include the roles of theory and ethics in research, hypothesis testing, and research design.

CRJ 102. Crime And Punishment. 3 Units
Prerequisite(s): Criminal Justice major
Term Typically Offered: Fall, Spring

This course provides an overview of the causes, consequences and responses to crime in society, with special emphasis on the use of theory and research to guide criminal justice policy and practice. The course surveys major theories of crime causation, examines consequences of crime on individuals and societies, and explores various perspectives on the appropriate role of criminal sanctions and offender treatment in modern day systems of justice.

CRJ 105. Delinquency, Prevention and Control. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

Comprehensive juvenile delinquency planning process and its contribution to effective delinquency prevention and control; new roles for delinquency control agencies (police, courts, and corrections); the Youth Service Bureau; innovative strategies in delinquency prevention programming.

CRJ 106. Analysis of Career Criminals. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

Observation and analysis of criminal career patterns using the following approaches: anthropological, autobiographical, psychological, psychiatric, and sociological. The examination of career criminal behavior patterns will focus upon: the process of induction into criminal activity; the deviant orientation of the professional criminal; the organization, life style, and activities of the specialized criminal; and the methodological problems associated with the measurement of recidivism.

CRJ 108. Domestic Crime and Violence. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

Detailed examination of the multiple causes, effects and dynamics of crime against children, spouses, domestic partners and the dependent elderly, the response of criminal justice agencies to these crimes and the impact of these crimes on their victims.

CRJ 109. Media, Crime, and Criminal Justice. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

Analyzes the social construction of crime by news and entertainment media and introduces criminal justice students to the manner in which the media influences and shapes crime in their own society and in the criminal justice system. Analyzes images of crime and the criminal justice system that are presented through the major mass media within America, including a detailed analysis of media institutions, American pop culture, and the construction of crime and justice. Exposes students to a new way of looking at crime problems and provide them with a deeper understanding of how crime and the criminal justice system are both socially constructed by the news and entertainment media.

CRJ 111. Women and the Criminal Justice System. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Survey of the roles of women as offenders, victims and employees in the criminal justice system. Examines statistics, research and the literature as it relates to female crime. Evaluates current patterns and practices of law enforcement, criminal courts and corrections relative to women as offenders, victims, and employees.

CRJ 112. Gangs and Threat Groups in America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of criminal organizations in America. The problems posed by 'anti-social groups,' their structure and their history in contemporary American society. The spectrum of social sciences is employed in an examination of 'illegal groups' and such issues as aggression and group dynamics. Styles such as street gangs, prison gangs and traditional organized crime are defined and studied.

CRJ 114. Sexual Offenses and Offenders. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Exploration of relevant factors and dimensions of sexual offenses and offenders related to the Criminal Justice system, its cliental and practitioners.

CRJ 115. Violence and Terrorism. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Systemically examines political violence, responses by government institutions to that violence and implications of both for the administration of justice. Content is structured along a continuum, ranging from small scale violence to mass violence - assassinations, terrorism by sub-national and transnational organizations, state terror and genocide. In recent years political violence has progressively drawn the American governmental institutions, particularly justice agencies, into the global picture of violence committed by both domestic and international terrorists.

CRJ 116. Restorative Justice and Conflict Resolution. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines concepts, principles, techniques of conflict resolution and restorative justice in contemporary US legal system, global peacebuilding, across cultures, and comparative justice practices. The centerpiece is a classroom simulation that introduces students to theoretic analysis and practical knowledge on resolution of conflicts and crime. Addresses nonviolent responses to inter/intra state and community conflicts. Topics include negotiation, mediation, victim offender reconciliation, alternative dispute resolution (ADR), circle sentencing, transitional justice, peace treaty, transformative justice, intergroup dialogues, etc.

CRJ 117. American Criminal Justice and Minority Groups. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Course examines the origins of racial/ethnic/gender/sex discrimination and disparities in the US justice system. Additionally, course provides a critical examination of the processes and outcomes of the justice system by reviewing the major theories of crime and number of minorities reported in crime data. Using discussions about various criminal justice policies and their impact on minority groups, the course assesses the changing dynamic of race relations and diversity in society and their influences on justice administration.

CRJ 118. Drug Abuse and Criminal Behavior. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Sociogenic review of the case histories and life styles of selected juvenile and adult offenders with a history of drug abuse. An inquiry into the drug scene, 'street' drugs, an examination of people who have abused drugs and have been guilty of delinquent or criminal acts for the purpose of determining the known and identified relationships between drug abuse and crime, and probing the many unknown relationships. A sustained and disciplined examination of the main issues and problems by the use of case studies, discussion groups, and student involvement.

CRJ 121. The Structure and Function of the American Courts. 3 Units
Prerequisite(s): declared majors or minors or chair permission.
Term Typically Offered: Fall, Spring

Overview of the Federal and State court structures including jurisdiction, venue, roles of court participants, due process and post arrest procedures employed in adjudication, trial process, appellate review. Constitutional issues such as discretion, indigent rights, right to counsel, discovery, pleas, bail and preventive detention, competency, evidence suppression, double jeopardy, and speedy trial will also be addressed.

CRJ 123. Law of Arrest, Search and Seizure. 3 Units
Prerequisite(s): Restricted to declared majors or minors or department chair permission.
Term Typically Offered: Fall, Spring

Current and recent developments relating to arrest, searches, and seizures; study of constitutional rights predominately associated with the Fourth, Fifth, Sixth and Fourteenth Amendments as related to criminal justice and its administration -- warrants, warrantless seizures, exclusionary rule, confession, eye-witness identification, electronic surveillance, entrapment, and state variance with federal rules. Case study method law course.

CRJ 125. Law of Responsibility. 3 Units
Prerequisite(s): Restricted to declared majors or chair permission.
Term Typically Offered: Spring only

Substantive criminal law of responsibility and culpability. Topics include legal cause, mens rea, negligence, intent and its equivalents, motive, immaturity, mental incapacitates, mistake, and affirmative defenses including authority and privilege as found in American statute and case law. A case method law course.

CRJ 126. Law of Evidence. 3 Units
Prerequisite(s): CRJ 121 and CRJ 123; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

Law of evidence as codified and its complimentary interpretations by the courts. Topics include the admission and exclusion of evidence, relevance, the hearsay rule and its exceptions, the use of writings and demonstrative evidence, judicial notice, order of proof and presumptions, and issues relating to witness competency and privileges. Constitutional exclusions and their impacts are not covered.

CRJ 127. Juvenile Law. 3 Units
Prerequisite(s): CRJ 102 and CRJ 121; restricted to CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

Overview of legal concepts and principles affecting the adjudication of delinquent children in juvenile and adult court systems, develops the ability to read and analyze difficult legal issues relating to juvenile law, and provides the information required to evaluate the effectiveness of the juvenile court system in the context of its stated rehabilitative goals and the potential impact of a shift in focus to a more retribution-oriented structure.

CRJ 128. Administrative Law for Public Safety Personnel. 3 Units
Prerequisite(s): CRJ 121 and CRJ 123; restricted to CRJ majors or chair permission
Term Typically Offered: Spring only

Administrative law is the study of the adjudicatory and law making processes that take place within administrative agencies of the executive branches of government. Further, it is a study of the legal relationship between those agencies and the legislature, the courts, and private parties. Particular attention will be paid to the Federal Administrative Procedures Act, and the California Administrative Procedure Act.

CRJ 130. Fundamentals of Corrections. 3 Units
Prerequisite(s): Restricted to declared CRJ majors or minors or department chair permission.
Term Typically Offered: Fall, Spring

Overview and critical analysis of contemporary correctional theory and practice. Comparison of mainline American corrections with historical, cross-cultural, philosophical and non-traditional views of corrections. Controversial issues in contemporary corrections, including prisoner rights, victimization, the death penalty, unions, institutional corrections, community corrections, future of corrections, correctional careers, and administration and staffing of correctional programs.

CRJ 131. Correctional Institutions. 3 Units
Prerequisite(s): CRJ 101, CRJ 102 and CRJ 130; restricted to declared majors or chair permission
Term Typically Offered: Fall, Spring

Role and function of the correctional institution in the administration of criminal justice. A review of institutional procedures: reception, classification, program assignment, mass custody, treatment programs, and release, including parole and discharge. The inmate social system and its relationship to the official world that contains it. The following topics will receive special attention: the determinate sentence; the confinement of repetitively violent offenders; the death penalty and its impact on prison management, inmate social services; prison reform; and the stresses experienced by institutional personnel.

CRJ 134. Community Based Corrections. 3 Units
Prerequisite(s): CRJ 101, CRJ 102 and CRJ 130; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

Role of local and state government in the development of community-based correctional programs; regional detention facilities; recent trends in jail organization and management; ex-offenders and employment; the impact of community corrections on the criminal justice system.

CRJ 136. Corrections Administration. 3 Units
Prerequisite(s): CRJ 101, CRJ 130 and CRJ 160; restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

Concepts of administration; corrections as a component of criminal justice; organization and management of correctional services and correctional institutions for delinquent youth and adult offenders; probation and parole; and the legal and political contexts of corrections.

CRJ 141. Police and Society. 3 Units
Prerequisite(s): Restricted to declared CRJ majors or minors or department chair permission
Term Typically Offered: Fall, Spring

Examination of the origins, philosophy, objectives and priorities of the police service in the U.S. A. holistic analysis of political, social, economic, legal and other factors impacting the relationship between the police and the society they serve. Police use of discretion, police roles, police and minority groups, police and protest groups, police brutality, and police ethics are also studied.

CRJ 142. Police Administration. 3 Units
Prerequisite(s): CRJ 101, CRJ 141 and CRJ 160; restricted to declared majors or chair permission.
Term Typically Offered: Fall only

Concepts of organization and management; relationships between police agencies and the public, other criminal justice agencies, and other agencies of government; organization for delivery of police services: first response, crime investigation, youth services, vice, communications, and information management.

CRJ 144. Contemporary Issues in Police Administration. 3 Units
Prerequisite(s): CRJ 101 and CRJ 141; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

Roles of police in a democratic society; analysis of public disobedience to law; racial and ethnic group relationships with police; public, official, and police corruption; police discretion; professionalism; development of criminal intelligence.

CRJ 151. White Collar Crime. 3 Units
Prerequisite(s): Junior/Senior status, Criminal Justice or Fire Service Management major or chair permission
Term Typically Offered: Fall, Spring

Introduces students to a variety of white collar crime issues, including definitional complexities, the causes, frequency and impact of economic crime, and victim and offender profiles. Governmental corruption, organizational fraud, consumer and environmental offenses, anti-trust violations and international schemes will be covered. Students will also become familiar with methods used to investigate, prosecute and sentence white collar offenders. Policy considerations will be discussed for controlling national and international white collar crime.

CRJ 152. Interviewing and Detection of Deception. 3 Units
Prerequisite(s): CRJ 102; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

Principles and techniques of interviewing and detection of deception studied from communication, physiological and psycho-social points of view. Introduction to the use of the polygraph; laws pertaining to confessions and admissions.

CRJ 153. Advanced Criminal Investigation. 3 Units
Prerequisite(s): CRJ 102; restricted to declared CRJ majors or declared Forensic minor or have chair permission.
Term Typically Offered: Fall, Spring

Principles involved in the investigation of crimes; utilization of scientific aids in obtaining information from physical objects; concepts in obtaining information from and about people; concept of reconstruction of crime and profile of suspect; development of leads; investigative problems in major crimes; special problems in crime investigation.

CRJ 154. Introduction to Physical Evidence. 3 Units
Prerequisite(s): CRJ 102; restricted to declared CRJ majors or Forensic Investigation minor or chair permission.
Term Typically Offered: Fall, Spring

Provides an overview of the role of science in collecting and evaluating physical evidence as a component of the criminal investigation and legal processes. Various operations in the examination and interpretation of physical evidence are examined with emphasis on the role of science in supporting the investigator and in the litigation process. Suitable for both science and non-science majors.

CRJ 156. Introduction to Crime and Intelligence Analysis. 3 Units
Prerequisite(s): CRJ 101; must be a declared CRJ major or have chair permission.
Term Typically Offered: Fall, Spring

Introduction to crime and intelligence analysis with a special emphasis on those methods most often used in the study of crime and criminal behavior patterns. Students will acquire the knowledge and skills necessary toward understanding crime analysis, intelligence analysis and mapping geospatial data. Topics include theory, the history of crime analysis, crime analysis technologies, intelligence analysis, and types/functions of crime analysis.

CRJ 160. Justice and Public Safety Administration. 3 Units
Prerequisite(s): restricted to declared CRJ majors or minors or department chair permission.
Term Typically Offered: Fall, Spring

Examines the nature and development of public safety and criminal justice organizations in American society with attention to how the unique functions performed by these agencies has shaped and developed their nature. Particular emphasis is placed on understanding the unique problems generated by administration of bureaucratic, public agencies in a highly politicized environment. Examines the influence of social and political factors on justice and public safety organizations.

CRJ 162. Intergovernmental Relations, Finance and Budgeting for Public Safety Personnel. 3 Units
Prerequisite(s): CRJ 160 or PPA 100; Junior or Senior standing; must be a Criminal Justice or Fire Service Management Major.
Term Typically Offered: Fall only

An examination of the structure, organization and management of state and local government with particular attention to the interplay between governmental agencies that is focused on the operations and management of public safety agencies. Government leadership models, such as mayor and city manager will be examined. Finance, the state and local budgets, taxation, revenue and spending will be addressed.

CRJ 163. Leadership in Criminal Justice and Public Safety. 3 Units
Prerequisite(s): CRJ 160; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

Addresses role of leadership in shaping and directing complex justice and public safety organizations. Leadership styles, roles, communication, group dynamics and organizational culture are examined and applied to organizational maintenance, adaptation, and change. Also addresses the role of employee organizations and personal practices in shaping leadership options and styles in public agencies. Particular attention is focused on implementing leadership in the bureaucratic and public agencies typical to the fields of criminal justice and public safety administration.

CRJ 165. Planning for Justice and Public Safety. 3 Units
Prerequisite(s): CRJ 101, CRJ 102 and CRJ 160; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Spring only

Addresses planning in complex justice and public safety organizations. Focuses on the role of planning in preparing for change, maximizing utilization of resources and addressing crime and public safety. Emphasis is placed on the use of planning to unify fragmented public agencies at multiple levels of government in preparing for disaster, controlling crime, and assuring public safety.

CRJ 166. Personnel Administration in Criminal Justice and Public Safety Organizations. 3 Units
Prerequisite(s): CRJ 160; declared CRJ major or chair permission
Term Typically Offered: Fall, Spring

This course provides an understanding of history, theories, laws, and practices related to contemporary as well as future criminal justice/public safety personnel administration and practice.

CRJ 167. Collective Bargaining and Arbitration Issues in Public Safety. 3 Units
Prerequisite(s): Must be a declared CRJ major or chair permission.
Term Typically Offered: Fall, Spring

This course is designed to provide the public safety student and/or criminal justice student, practitioner and/or administrator with an understanding of public safety personnel practices in the area of collective bargaining. Labor-management relations, dispute resolution, arbitration, and the various laws that govern labor-management relations, at all levels of government, will be covered.

CRJ 168. Justice and Public Safety Information Systems. 3 Units
Prerequisite(s): Restricted to declared majors or chair permission.
Term Typically Offered: Fall, Spring

Introduction to criminal justice and public safety information systems. Provides a framework for understanding the needs, types, capabilities and applications of information systems to the field. Current uses are surveyed and future potential applications are examined.

CRJ 169. Emergency Management. 3 Units
Prerequisite(s): CRJ 164; Criminal Justice or Fire Service Management major, or instructor permission.
Term Typically Offered: Fall, Spring

Course reviews the history of emergency management, the current systems in place to manage mitigation, preparedness, response and recovery and the coordination and communication required to do so. Diverse responses to various emergencies will be presented with detailed examination of the roles of various levels of government and integration required. The formal declaration of emergencies and federal aid procedures, agencies involved and their administration will be covered.

CRJ 170. Human Trafficking and Slavery. 3 Units
Prerequisite(s): Junior/Senior level and CRJ majors only; or department chair permission.
Term Typically Offered: Fall, Spring

The course explores the international and domestic legal framework that defines human trafficking and slavery and analyzes the major theories and current research on related causes and risk factors. The role of involvement of transnational organized criminal groups and vulnerability of social groups are discussed. Lastly, the course provides a critical analysis of effective strategies in victim identification, protection, prosecution, and prevention as instrumental components in assessment of crime control policy.

CRJ 172. Comparative Criminal Justice Systems. 3 Units
Prerequisite(s): Junior status; restricted to declared CRJ majors or chair permission
Term Typically Offered: Fall, Spring

Examines representative criminal justice systems from a variety of nations with emphasis on the role of history, culture, social and political values and economic institutions in shaping institutions of justice including law, police, courts, corrections, and juvenile justice systems and practice. Attention is paid to conflict and cooperation between criminal justice systems and ideologies that occur when peoples of different cultures and systems are in close proximity.

CRJ 174. Criminal Justice Systems of the Future. 3 Units
Term Typically Offered: Fall, Spring

Societal structures, definitions of deviance and criminal behavior, social problems related to criminality, the nature of systems for handling criminals and sanctions in future societies.

CRJ 176. Security Systems. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

Purposes, functions and historical development of industrial security in the U.S. Co-responsibilities of security personnel and line supervisors; principles of physical security, document protection, pilferage prevention and employee programs for plant and inventory protection. Survey of related laws and cooperating agencies of government.

CRJ 181. Topics in Criminal Justice. 3 Units
Prerequisite(s): CRJ 100 and CRJ 110; must be a CRJ major.
Term Typically Offered: Fall, Spring

Topics of interest to criminal justice students and faculty will be offered as the need arises.
Note: May be repeated provided the topic is different.

CRJ 190. Contemporary Issues in Criminal Justice. 3 Units
Prerequisite(s): CRJ 101, CRJ 102, CRJ 121, CRJ 123, CRJ 130, CRJ 141, CRJ 160; restricted to declared CRJ majors or chair permission with senior status, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Examination of current issues in criminal justice with an emphasis on the application of law, management, practice and ethics to analysis of contemporary criminal justice policy. The culminating event for criminal justice majors with an emphasis upon written and oral communication, research and analytical thinking.

CRJ 191. Topics in Criminal Justice Administration. 3 Units
Prerequisite(s): CRJ 101 and CRJ 102; restricted to declared CRJ majors or chair permission.
Term Typically Offered: Fall, Spring

CRJ 195. Internship. 1 - 6 Units
Prerequisite(s): Restricted to declared majors or chair permission and senior status
Term Typically Offered: Fall, Spring

Supervised work and experience in justice or public safety related agencies designed to expand the student's understanding of techniques, procedures and problems that occur in these agencies. Supervision provided by both faculty and agency personnel.
Note: may be repeated for credit

Credit/No Credit

CRJ 196. Experimental Offerings in Criminal Justice. 2 - 4 Units
Prerequisite(s): Restricted to declared majors and minors or instructor permission.
Term Typically Offered: Fall, Spring

To be offered in the various fields of Criminal Justice in response to student needs.

CRJ 196A. The Mentally Ill Individual in the Criminal Justice System. 3 Units

Term Typically Offered: Fall, Spring

Overview and analysis of how mentally ill individuals interface with the criminal justice system, from first contacts with the police, to their entry into the jails, courts, and prisons, and then reentry into the community via parole and probation. The history of how the mentally ill became so embedded in the criminal justice system, whether mental illness has become criminalized, evidence-based mental health programs, and treatment for this population will be covered.

CRJ 196B. Law of Homeland Security and Emergency Management. 3 Units

Term Typically Offered: Fall, Spring

Current and historical developments relating to the laws surrounding homeland security and emergency management. Topics include the legal framework for the U.S. domestic preparedness and national incident management system, the role of the military in emergency response and homeland security, and the legal jurisdiction and authority of federal, state, and local public safety, as well as private sector institutions, in terrorism prevention and response. Course utilizes cases, statutes, executive orders, government reports, and scholarly research.

CRJ 196S. Ethics and the Criminal Justice System. 3 Units

Prerequisite(s): CRJ Majors or department chair permission

Term Typically Offered: Fall, Spring

Purpose of course is to learn various ethical considerations within the criminal justice system. Course will briefly explore the classical, philosophical foundations of ethics and proceed into surveying modern, ethical decision-making among the various criminal justice components. Criminal justice system ethics and decision-making of the police, prosecution, courts, corrections, and probation/parole from a managerial standpoint and a line perspective will be examined and critiqued. Emphasis will be placed on viable, practical solutions to ethical conundrums.

CRJ 198. Co-Curricular Activities. 1 - 3 Units

Prerequisite(s): Permission of the sponsoring professor and the Division Chair.

Term Typically Offered: Fall, Spring

Co-Curricular activities related to the subject matters and intellectual concerns of the Division of Criminal Justice, including service learning, related community service assignments, and service on University and community policy making bodies.

Credit/No Credit

CRJ 199. Special Problems. 1 - 3 Units

Prerequisite(s): Restricted to declared CRJ majors or chair permission and senior status.

Term Typically Offered: Fall, Spring

Individual projects or directed reading, open only to those students who appear competent to carry on individual work.

Credit/No Credit

CRJ 200. Research Methods in Criminal Justice. 3 Units

Prerequisite(s): Classified graduate status, satisfactory completion of a basic statistics course.

Term Typically Offered: Fall, Spring

Research theory and methodology in Criminal Justice; research designs; conceptual models; design and preparation of Master's thesis prospectus.

Note: Graduate Writing Intensive (GWI) course.

CRJ 201. Advanced Research Design and Data in Criminal Justice. 3 Units

Prerequisite(s): CRJ 200

This course provides applied explanations of advanced research designing, use of data development strategies, and techniques for effective data analysis using statistical software. Topics generally covered include: (1) issues and techniques in advanced research design with emphasis on theory testing and hypothesis formulation; (2) measurement, data collection strategies, reliability and validity of measures and results, sampling, surveys; and, (3) examination of qualitative versus quantitative research techniques, working with observational data, field research issues, and triangulation.

Note: Required core course

CRJ 205. Criminal Justice Policy Analysis. 3 Units

Prerequisite(s): Classified Graduate status, CRJ 200, CRJ 201, CRJ 255, and CRJ 260.

Term Typically Offered: Fall, Spring

Examination of responses of the criminal justice system to major current issues with attention to factors influencing their effects; review of uses and limitations of various responses; appraisal of the consequences of various criminal justice policy alternatives.

CRJ 207. Criminal Justice Research and Program Evaluation. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

Systematic review of selected evaluations of major criminal justice programs, demonstration projects, experiments, and innovations; introduction to basic techniques of interpretation and analysis of research findings to determine outcomes.

CRJ 210. Critical Examination of Law and Justice. 3 Units

Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260

Term Typically Offered: Fall, Spring

Examines the historical, theoretical, and practical developments that gave rise to the dominance of legal formalism in the American legal tradition. Examines the multiple challenges to that model, including legal realism, the sociology of law, critical legal studies, and critical race theory. Will critically examine the intersection of the American legal tradition with issues concerning the possibility and implementation of social justice strategies in diverse, and increasingly global contexts.

CRJ 220. Politics of Crime Legislation. 3 Units
Prerequisite(s): Classified Graduate status, CRJ 200, CRJ 201, CRJ 255, and CRJ 260.
Term Typically Offered: Fall, Spring

Familiarizes students with the legislative process, the performance of the legislature as it relates to the handling of crime bills and the role of interest groups and politics in the process of initiating and passing laws. Topics include: theoretical models of lawmaking, factors in legislative decision-making, the politics of crime legislation, ethics in politics, and how people influence and use the legislative process.

CRJ 230. The Prison. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Contemporary penal institutions will be studied using the literature in the social sciences, the biographies of prisoners, and the writings of prison critics.

CRJ 231. Graduate Seminar in Corrections. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Provides a historical analysis and discussion of the current state of corrections and correctional management. Theories of punishment will be addressed and management techniques will be covered. Goes beyond concepts of institutionalized corrections to explore modern correctional alternatives, correctional policy and special topics relevant to corrections.

CRJ 233. Psychodynamics of Confinement. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Examination of current conditions of confinement; review of confinement related factors common to populations in penal institutions, military installations, mental hospitals, prisoner of war camps, and concentration camps; investigation into the broader implications of conditions of confinement for society; survey of practical strategies for developing and implementing standards for confined populations.

CRJ 240. Contemporary Issues in Policing. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

In-depth study of contemporary issues in policing in the U.S., including management, organization and issues confronting law enforcement at federal, state and local levels.

CRJ 250. Comparative Analysis of the Criminal Justice System. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Examination of alternative systems for criminal justice provides a basis for improved understanding of organizational and functional components within given sociopolitical environments. Through comparison of formal and operational levels, decision-making processes are made explicit with reference to historical, legal, social, and economic parameters in the administration of justice.

CRJ 251. White-Collar Crime. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Examines the underlying theories and the diverse nature of white-collar crime. Studies offenses associated with corporations, occupations, governments, enterprises and individuals. Examines the offenders and the organizational culture that facilitates criminal action. Topics include embezzlement, political corruption, employee theft, fraud, computer crime, and environmental crime. Study consequences for victims, offender characteristics and the theoretical explanations for the decisions by criminals to commit white-collar crimes.

CRJ 252. Violence and Victims. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Comprehensive survey of the literature on violence emphasizing high-fear crimes; the repetitively violent criminal; the emerging field of victimology; improved delivery of social services to victims; juvenile gangs; and the response of criminal justice agencies to urban violence.

CRJ 255. Crime, Criminology and Criminal Justice. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Study of major criminological theories, their ideological premises and basic assumptions, interrelationships, and the shifts in emphasis and focal points in the study of criminality. Analyzes post and current applications of theory to the intervention strategies of crime control.

CRJ 256. Historical Analysis of the American Criminal Justice System. 3 Units
Prerequisite(s): Classified graduate status; CRJ 200,CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Evolution and historical foundations of American patterns of crime and violence, criminological theories, law enforcement structures and philosophies, the adult criminal justice system, and the juvenile system will be traced through three distinct historical periods: Colonial and Early American Roots, 1609-1814; Creating the American Criminal Justice System, 1815-1900; and Reforming the Criminal Justice System, 1900 to present.

CRJ 257. The Nature Of Terrorism. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Theoretical approaches to the study of terrorism and analysis of terrorist theory and strategies. Topics include operational definitions of terrorism, typologies of terrorism, threat analysis of terrorism in the U.S., and responses of the criminal justice system to acts of hostage-taking, bombing, political murder, and narco-terrorism.

CRJ 260. Management of Complex Justice Organizations. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Description, analysis, solution, and synthesis of contemporary management problems in criminal justice organizations; presentation and exemplary implementation of management concepts significant to criminal justice organizations; review of case studies for management problem recognition; and the study of operational systems.

CRJ 262. Administration of Juvenile Justice. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Theoretical and empirical study of the cause and control of delinquent behavior. Assessment of policies and practices of agencies involved in juvenile justice including the impact of recent federal and state legislation.

CRJ 266. Personnel Administration in Justice Organizations. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Provides an in depth understanding of the history, theories, laws, processes, issues and unique environment shaping contemporary personnel administration in a variety of criminal justice agencies.

CRJ 267. Criminal Justice Issues in Collective Bargaining and Arbitration. 3 Units
Prerequisite(s): Classified graduate status; CRJ 200, CRJ 201, CRJ 255 and CRJ 260.
Term Typically Offered: Fall, Spring

Designed to provide the criminal justice practitioner and administrator with an understanding of criminal justice labor-management relations and collective bargaining and difference resolution, along with conflict resolution practices as applied to inmate-custody and control situations.

CRJ 289. Criminal Justice Systems of the Future. 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Societal structures, definitions of deviance and criminal behavior, social problems related to criminality, the nature of systems for handing criminal and sanctions in future societies.

CRJ 295. Internship. 3 Units
Prerequisite(s): Classified graduate status
Term Typically Offered: Fall, Spring

Supervised graduate student placement in selected criminal justice agencies with emphasis on research and evaluation project assignments.
Credit/No Credit

CRJ 296A. The Mentally Ill Individual in the Criminal Justice System. 3 Units
Prerequisite(s): Graduate student status
Term Typically Offered: Fall, Spring

A critical analysis of how mentally ill individuals interface with the criminal justice system, from first contacts with the police, to their entry into the jails, courts, prisons, and then reentry into the community via parole and probation. Current and historical topics about the mentally ill will be explored via an in-depth analysis of the current literature regarding the mentally ill in the criminal justice system, which will be reviewed and critiqued.

CRJ 296K. Emergency Management. 3 Units
Prerequisite(s): Graduate status; CRJ 200, CRJ 255, CRJ 256 and CRJ 260 or chair permission.
Term Typically Offered: Fall, Spring

Introduction to the authority, organization, responsibilities, challenges, and issues related to emergency management in California and the U.S., examines the implications of citizen involvement in preparation for and management of natural and man-made disasters. Graduate students will consider impact of terrorism on democratic governance issues and potential future trends and issues.

CRJ 299. Special Problems. 1 - 3 Units
Prerequisite(s): CRJ 200, CRJ 201, CRJ 255 and CRJ 260
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who are competent to carry on individual work.
Credit/No Credit

CRJ 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree. A thesis requires an original contribution to knowledge in a traditional research format. A project is a significant undertaking of a pursuit appropriate to the profession. It must evidence originality and independent thinking, appropriate form and organization and a rationale.

CRJ 501. Culminating Experience: Thesis/Project Development. 3 Units
Prerequisite(s): Advancement to candidacy.
Term Typically Offered: Fall, Spring

Provides students with an opportunity to develop a foundation for their culminating experience. Students will complete the initial components of their project or thesis including the Statement of the Problem, Literature Review, and Human Subjects application. Students are expected to read assigned materials and engage in weekly discussions about their progress and experience with other students, the instructor, and their advisor (as needed).
Credit/No Credit

CRJ 502. Culminating Experience: Thesis or Project. 3 Units
Prerequisite(s): Advanced to candidacy; satisfactory completion of CRJ 501.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree. A thesis requires an original contribution to knowledge in a traditional research format. A project is a significant undertaking of a pursuit appropriate to the profession. It must evidence originality and independent thinking, appropriate form and organization and a rationale.
Credit/No Credit

Dance (DNCE)

DNCE 1A. Jazz Dance Level IA. 2 Units
Term Typically Offered: Fall, Spring

Theory and practice of basic beginning jazz techniques.
Note: May be repeated for up to 4 units of credit.

DNCE 1B. Jazz Dance Level IB. 2 Units
Term Typically Offered: Fall, Spring

Continued theory and practice of beginning jazz techniques.
Note: Does not satisfy degree requirements for major, all students welcome. May be repeated for up to 4 units of credit.

DNCE 1C. Jazz Dance Level IC. 2 Units
Term Typically Offered: Fall, Spring

Further theory and practice of beginning jazz techniques.
Note: May be repeated for up to 4 units of credit.

DNCE 2A. Contemporary Dance Level IA. 2 Units
Term Typically Offered: Fall, Spring

Introduction to the history and techniques of the contemporary dance and modem dance tradition through basic dance principles and aesthetics including the introduction to contemporary movement to develop and improve strength, flexibility, balance, coordination and creative expression.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 2B. Contemporary Dance Level IB. 2 Units
Term Typically Offered: Fall, Spring

Continues the introduction of the history and techniques of contemporary dance and the modern dance tradition through deepened study of basic dance principles and aesthetics including the continued practice of contemporary movement to continue the development and improvement of strength, flexibility, balance, coordination and creative expression.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 2C. Contemporary Dance Level IC. 2 Units
Term Typically Offered: Fall, Spring

Further introduction to the history and techniques of the contemporary dance and modem dance tradition through further study of basic contemporary dance principles and aesthetics including the further practice pf contemporary movement for the deepened development and improvement of strength, flexibility, balance, coordination and creative expression.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 3A. Ballet Level IA. 2 Units
Term Typically Offered: Fall, Spring

Introduction to the history and development of traditional ballet techniques. Students will study ballet principles and aesthetics and continue to learn basic ballet movement, vocabulary, and skills.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 3B. Ballet Level IB. 2 Units
Term Typically Offered: Fall, Spring

This course provides,continued introduction to the history and development of traditional ballet techniques. Students will study ballet principles and aesthetics and continue to learn basic ballet movement, vocabulary, and skills.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 3C. Ballet Level IC. 2 Units
Term Typically Offered: Fall, Spring

This course provides a further introduction to the history and development of traditional ballet techniques. Students will expand upon their earlier study of ballet principles and aesthetics and continue to learn basic ballet movement, vocabulary, and skills.
Note: Does not satisfy degree requirements for major, all students welcome.

DNCE 4A. Tap Dance Level IA. 2 Units
Term Typically Offered: Fall, Spring

Introduction to fundamental tap dance skills including basic steps, history and vocabulary, and style development.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirement, all students welcome.

DNCE 4B. Tap Dance Level IB. 2 Units
Term Typically Offered: Fall, Spring

Continued introduction to fundamental tap dance skills including a deepened study of basic steps, history and vocabulary, and continued style development
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.

DNCE 4C. Tap Dance Level IC. 2 Units
Term Typically Offered: Fall, Spring

Further introduction to fundamental tap dance skills including an expanded study of basic steps, history and vocabulary, and further style development
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.

DNCE 5A. Mexican Folklorico Level IA. 2 Units
Term Typically Offered: Fall, Spring

Introduction to dances typically and traditionally performed by Mexican and Latin Americans exploring the interrelationship of dance culture to historical events, holidays, and people throughout the Americas and with opportunities to learn folk dances representative of specific regions of Mexico and Latin America.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.

DNCE 5B. Mexican Folklorico Level IB. 2 Units
Term Typically Offered: Fall, Spring

Continued introduction to dances typically and traditionally performed by Mexican and Latin Americans with deepened exploration of the interrelationship of dance culture to historical events, holidays, and people throughout the Americas and with continued study of folk dances representative of specific regions of Mexico and Latin America.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirement, all students welcome.

DNCE 5C. Mexican Folklorico Dance Level IC. 2 Units
Term Typically Offered: Fall, Spring

Further introduction to dances typically and traditionally performed by Mexican and Latin Americans with expanded exploration of the interrelationship of dance culture to historical events, holidays, and people throughout the Americas and with further study of folk dances representative of specific regions of Mexico and Latin America.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirement, all students welcome.

DNCE 6A. Hip Hop Level lA. 2 Units
Term Typically Offered: Fall, Spring

Introduction to the fundamentals of Hip Hop and Urban dance skills, including basic steps, history, and vocabulary.
Note: May be repeated for up to 4 units of credit. Does not satisfy degree requirement, all students welcome.

DNCE 6B. Hip Hop Level lB. 2 Units
Continues the introduction of the fundamentals of Hip Hop and Urban dance skills, with a deepened study of basic steps, history, and vocabulary.
Note: May be repeated for up to 4 units of credit, does not satisfy degree requirement, all students are welcome.

DNCE 6C. Hip Hop Level lC. 2 Units
Further introduction of the fundamentals of Hip Hop and Urban dance skills, with an expanded study of basic steps, history, and vocabulary.
Note: May be repeated for up to 4 units of credit, does not satisfy degree requirement, all students are welcome.

DNCE 11A. Jazz Dance Level IIA. 2 Units
Term Typically Offered: Fall, Spring

Theory and practice of current jazz techniques including continued study of movement vocabulary with an emphasis on the different jazz styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 11B. Jazz Dance Level IIB. 2 Units
Term Typically Offered: Fall, Spring

Continued theory and practice of current jazz techniques including the continued study of movement vocabulary with an emphasis on the different jazz styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during the first week of classes, all students welcome.

DNCE 11C. Jazz Dance Level IIC. 2 Units
Term Typically Offered: Fall, Spring

Further expanded theory and practice of current jazz techniques including the deepened study of movement vocabulary with an emphasis on the different jazz styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during the first week of classes, all students welcome.

DNCE 12A. Contemporary Dance Level IIA. 2 Units
Term Typically Offered: Fall, Spring

Examination of theories of the contemporary dance and modern dance tradition that develops proficiency in performing intermediate level contemporary dance techniques from an intellectual and kinesthetic understanding. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 12B. Contemporary Dance Level IIB. 2 Units
Term Typically Offered: Fall, Spring

Continued examination of theories of the contemporary dance and modern dance tradition that continues the proficiency in performing intermediate level contemporary dance techniques with a deepened intellectual and kinesthetic understanding. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 12C. Contemporary Dance Level IIC. 2 Units
Term Typically Offered: Fall, Spring

Further examination of theories of the contemporary dance and modern dance tradition that further expand the proficiency in performing intermediate level contemporary dance techniques from a deeper intellectual and kinesthetic understanding. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 13A. Ballet Level IIA. 2 Units
Term Typically Offered: Fall, Spring

Understand and demonstrate proficiency of Ballet movement and vocabulary including different styles while learning the importance of proper anatomical alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 13B. Ballet Level IIB. 2 Units
Term Typically Offered: Fall, Spring

Continued understanding and deepened demonstration of proficiency of Ballet movement and vocabulary including different styles while learning the importance of proper anatomical alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 13C. Ballet Level IIC. 2 Units
Term Typically Offered: Fall, Spring

Further understanding and expanded demonstration of proficiency of Ballet aesthetics through Ballet movement and vocabulary including different styles while learning the importance of proper anatomical alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 14A. Tap Dance Level IIA. 2 Units
Term Typically Offered: Fall, Spring

Development and refinement of intermediate tap skills and vocabulary through the study of historical and current tap styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 14B. Tap Dance Level IIB. 2 Units
Term Typically Offered: Fall, Spring

Continued development and refinement of intermediate tap skills and vocabulary through the deepened study of historical and current tap styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 14C. Tap Dance Level IIC. 2 Units
Term Typically Offered: Fall, Spring

Further development and refinement of intermediate tap skills and vocabulary through the expanded study of historical and current tap styles. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

DNCE 22. Music for Dance. 2 Units
Prerequisite(s): DNCE 1A or DNCE 1B or DNCE 1C or DNCE 2A or DNCE 2B or DNCE 2C or instructor permission.
Term Typically Offered: Fall only

Experiential course exploring the musical elements utilized by the dancer, choreographer, and teacher of dance including a survey of music history and vocabulary; rhythms and theory; musical and dance phrasing; and dance performance musicality. This course fulfills requirements for the Dance Major and Dance Minor, non-dance major or minor students welcome.

DNCE 111A. Jazz Dance Level IIIA. 2 Units
Term Typically Offered: Fall, Spring

Advanced training in the theory and practice of jazz techniques. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 111B. Jazz Dance Level IIIB. 2 Units
Term Typically Offered: Fall, Spring

Continued training at the advanced level in the theory and practice of Jazz Dance techniques. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 111C. Jazz Dance Level IIIC. 2 Units
Term Typically Offered: Fall, Spring

Further advanced training at a deepened level for the theory and practice of jazz techniques. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 112A. Contemporary Dance Level IIIA. 2 Units
Term Typically Offered: Fall, Spring

Advanced training in the theory and practice of Contemporary Dance techniques and Modern Dance Traditions. Instructor with dance faculty representatives will audition students during first week of class for proper placement
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 112B. Contemporary Dance Level IIIB. 2 Units
Term Typically Offered: Fall, Spring

Continued training at the advanced level in the theory and practice of Contemporary Dance techniques and Modem Dance Traditions. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 112C. Contemporary Dance Level IIIC. 2 Units
Term Typically Offered: Fall, Spring

Further advanced training at a deepened level for the theory and practice of Contemporary Dance techniques and Modern Dance Traditions. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 113A. Ballet Level IIIA. 2 Units
Term Typically Offered: Fall, Spring

Advanced training in the theory and practice of Ballet including proper alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 113B. Ballet Level IIIB. 2 Units
Term Typically Offered: Fall, Spring

Continued training at the advanced level in the theory and practice of Ballet including proper alignment, collaboration of foot and arm positions, and appreciation of classical musical accompaniment. Instructor with dance faculty representatives will audition students during first week of class for proper placement.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 113C. Ballet Level IIIC. 2 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Further refinement within the proficiency of performing Ballet techniques while expanded intellectual and kinesthetic understanding of different Ballet styles which will be attained through the further emphasis of anatomy and the expanded building of the bodily strength and endurance through barre and center work.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome. Audition during first week of classes, all students welcome.

DNCE 118. Dance Improvisation. 2 Units
Prerequisite(s): DNCE 1A or DNCE 1B or DNCE 1C or DNCE 2A or DNCE 2B or DNCE 2C or instructor permission.
Term Typically Offered: Spring only

Exploration of the creation of movement through improvisation. Students will simultaneously explore and create, while spontaneously performing inner-directed movement without intellectual censorship.
Note: May be repeated for up to 4 units of credit. Satisfies degree requirements, all students welcome.

DNCE 120. Dance Composition I. 2 Units
Prerequisite(s): DNCE 118 or instructor approval
Term Typically Offered: Fall only

An exploration of the principle elements and processes utilized in the choreographic process.
Note: Satisfies degree requirements, all students welcome

DNCE 122. Dance Composition II. 2 Units
Prerequisite(s): DNCE 120 or Instructor permission.
Term Typically Offered: Fall, Spring

An in-depth exploration of the concepts, approaches, and processes used to further develop a stylistic approach to Dance Composition.
Note: Satisfies degree requirements, all students welcome.

DNCE 130. Appreciation and History of Dance. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Survey in the appreciation and history of dance and the relationship of dance to the fine and liberal arts in Western Civilization. Emphasis upon the history of ballet; American modes of expression: modern and jazz forms.
Note: Non-activity.

DNCE 131. Dance Cultures Of America. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Fall, Spring

Survey course in the appreciation and understanding of dance cultures in America. The relationship of dance to the identity and expression of different cultural groups in the U.S. will be examined. Jazz, modern, and ballet from a multicultural perspective will be the focus of the class.
Note: Non-activity.

DNCE 132. African-Caribbean Dance. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Introduction to the rich dance cultures of the Caribbean. Students will learn the different dances of Haiti, Cuba, Jamaica and Trinidad as they relate to their function in secular and religious culture, including the study of the Dunham Dance Technique.
Note: May be repeated for up to 6 units of credit.

DNCE 142. Dance Science and Somatics. 3 Units
Prerequisite(s): Upper division standing, or instructor permission.
Term Typically Offered: Fall, Spring

The study of skeletal structure, joint and muscle function, and the mechanics of movement geared specifically for dancers and movement practitioners. Incorporated into the course will be the study of embodied awareness practices - Somatics. The structural and energetic connections of the body will be explored within a context of both ease and efficiency of movement as well as creative expression.
Note: May be repeated for up to 6 units of credit. Satisfies degree requirement, all students welcome.

DNCE 143. University Dance Company. 1 Unit
Prerequisite(s): THEA 121and either DNCE 11A, 11B, 11C, 12A, 12B, 12C, 13A, 13B, 13C, 111A, 111B, 111C, 112A, 112B, 112C, 113A, 113B, 113C, or 132.
Term Typically Offered: Fall, Spring

Participation in the University Dance Company includes pre-professional dance conditioning and performance skill acquisition. Fulfills requirement for Dance Major and elective for Dance Minor; all students welcome to audition.
Note: Admission by audition only, this course is approximately 30 hours of participation in mandatory weekly class.

DNCE 150. Dance Theory and Criticism. 3 Units
Prerequisite(s): DNCE 122, DNCE 130, DNCE 131, instructor permission.
Term Typically Offered: Fall, Spring

Exploration of the contemporary theories and philosophies of movement, specifically in the dance genres of modern and jazz.. Also explores personal aesthetics and how to look at dance from a critical writing and oral presentation perspective. The role of the audience as well as the critic will be assessed and students will learn to evaluate content of movement in relation to its intention, motivation, and delivery.

DNCE 160. Creative Dance for Children. 3 Units
Term Typically Offered: Spring only

Exploration of creative dance as it applies to young children; including exploration of non-locomotor and locomotor movement patterns through problem solving and guided discovery techniques.

DNCE 190. Capstone Dance Project. 2 Units
Prerequisite(s): DNCE 150
Term Typically Offered: Fall, Spring

Participation and creative research in the rehearsal, production, and performance of a public dance production. Students will synthesize all major course materials to individually create a new choreographic work and collaboratively produce the Senior Dance Concert as their capstone project. Fulfills requirements for Dance Major.
Note: Dance Majors Only or Instructor Permission.

Deaf Studies (DEAF)

DEAF 51. American Sign Language 1. 4 Units
Term Typically Offered: Fall, Spring

Students will learn basic vocabulary and grammar of American Sign Language. Upon completion of this course, students will be able to exchange basic information about themselves and their families such as their names, where they live, and their interests. Through out-of-class readings, in-class discussions and demonstrations, and experiences within the deaf community, students are exposed to elements of the deaf culture and community.

DEAF 52. American Sign Language 2. 4 Units
Prerequisite(s): DEAF 51 or equivalent.
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Students will continue to expand vocabulary and concepts acquired in DEAF 51. Expansion of conversational range includes talking about other people and activities, giving directions, and making requests. Students develop discourse skills appropriate for establishing connections with deaf acquaintances and handling a variety of interruptions. Through in-class discussions/demonstrations, course readings, and out-of-class field experience, students are exposed to elements of the deaf culture and community.
Note: Taught in ASL without voice.

DEAF 53. American Sign Language 3. 4 Units
Prerequisite(s): EDS 52 or equivalent.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Students will expand communicative repertoire developed in DEAF 52 to talk about people and places in a contextually-reduced framework. Students learn to describe places, objects, and events. Students develop basic narrative skills to tell about past events. Through in-class discussions/demonstrations, course readings, and out-of-class field experience, students are exposed to elements of the deaf community and culture.
Note: Taught in ASL without voice.

DEAF 56. ASL Fingerspelling and Numbers. 1 Unit
Prerequisite(s): DEAF 52
Term Typically Offered: Fall, Spring

Students will develop increased fluency in their expressive and receptive abilities in fingerspelling through in-class practice and viewing of videotaped narratives. Students will also reinforce their abilities to utilize ASL numbering systems for time, money, measurements, and game scores, amount others.

DEAF 57. ASL Classifiers. 2 Units
Prerequisite(s): DEAF 53; may be taken concurrently
Term Typically Offered: Fall, Spring

Students will develop increased understanding of the types and uses of classifiers in ASL and develop further abilities to utilize this component of ASL in their expressive and receptive signing abilities through in-class practice, viewing of videotaped narratives, and individual practice outside of class.

DEAF 60. Introduction to Deaf Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Course introduces students to topics central to the deaf and deaf community, including audiology, education, culture, and history. Utilizing readings, lectures and group discussion, students will learn about the anatomy and causes of deafness, early intervention and education of deaf children, communication strategies and their effectiveness, the deaf as a cultural group and deaf/hearing relationships. Upon course completion, students will understand deaf individuals and their community in a holistic perspective and apply this knowledge toward further studies into the deaf culture and community.

DEAF 154. American Sign Language 4. 4 Units
Prerequisite(s): DEAF 53
Term Typically Offered: Fall, Spring

Principles, methods and techniques of manual communication with deaf people using American Sign Language. Emphasis on the continuation of developing advanced manual communication skills with a focus on techniques for informing others of factual information and instruction about rules and methods for students who will work or interact with adult deaf persons. Continuation of the analysis of the culture of deafness with emphasis on participation in the community.
Note: Taught in ASL without voice.

DEAF 155. American Sign Language 5. 4 Units
Prerequisite(s): DEAF 154 or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Students will build upon communicative skills developed in EDS 154 to develop and expand on their abilities to discuss parts of the body and health conditions, tell a personal narrative about themselves and moments in theirs and others' lives, as well as to retell and translate simple stories into ASL.

DEAF 161. Deaf History. 3 Units
Prerequisite(s): DEAF 60, DEAF 154
Term Typically Offered: Fall, Spring

An overview of the education of the deaf from prehistoric times to the present will be provided. Roots of current trends and events in deaf education will be explored, with projections for the future. Current issues such as mainstreaming, cochlear implants, communication modalities for instruction and others are discussed in both a historical context and from a deaf perspective.

DEAF 162. Deaf Culture and Community. 3 Units
Prerequisite(s): DEAF 60, DEAF 154
Term Typically Offered: Fall, Spring

Course introduces students to deaf people as a cultural and linguistic minority in America through coverage of sociolinguistic, anthropological, and historic issues in the development of deaf culture and community in America and worldwide. Utilizing readings, lectures and group discussion, topics will include: theories of culture; language use; cross-cultural interaction and intercultural processes, and deaf literature and art. Upon course completion, students will understand current and past educational, legal and medical policies and their impact on deaf and hard-of-hearing people.

DEAF 163. ASL Literature. 3 Units
Prerequisite(s): DEAF 154
Term Typically Offered: Fall, Spring

Students will learn several different forms of ASL literature. Aspects of both form and content will be analyzed as well as their role in the preservation and circulation of Deaf cultural forms.Students will also learn to perform narratives and/or poems in ASL. They will understand the effects of genre, style, perspective, and other artistic techniques on ASL signed art performances, and utilize similar techniques in their developed performances. Students may perform their stories for a general audience.
Note: Course taught in ASL with No Voice.

DEAF 164. Sign Language Structure and Usage. 3 Units
Prerequisite(s): DEAF 154 or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Examines origins and linguistic structure of American Sign Language (ASL). Cross-linguistic comparisons with spoken and signed languages of other countries will be made. Students will learn aspects of ASL phonology, morphology and syntax. Sociolinguistic aspects of ASL usage in regard to gender, ethnicity, geographical region and educational status will be discussed. Conducted entirely in American Sign Language.

DEAF 165. Seminar: Current Issues in the Deaf -World. 3 Units
Prerequisite(s): DEAF 154 or instructor approval.
Term Typically Offered: Fall, Spring

This course will explore a specific theme of interest to faculty and students within the program, with course content changed each semester. Selected topics will touch upon issues of special concern and interest to the Deaf community such as genetics, multicultural issues, media representations of deafness, theatre and performance art, visual arts, and other subjects which may arise in the future. Course will consist of readings, discussion, independent research, and viewing of various media as appropriate.
Note: 1) May be repeated when different topic is offered with a different instructor of record 2) Course taught in ASL with No Voice.

DEAF 166. Experiences in the Deaf Community - Dynamics of Oppression and Building Allyship. 3 Units
Prerequisite(s): DEAF 155, DEAF 161, DEAF 162.
Term Typically Offered: Fall, Spring, Summer

This course links active participation in the Deaf community to the content of previous Deaf Studies courses. In particular this course examines how to be a good ally within the Deaf community in the midst of a context of power, privilege and difference. Following a Service Learning model, students will collaborate on various service projects contributing to the Deaf community. Field trip.
Note: Course taught in ASL with No Voice.

Field trip(s) may be required.

DEAF 199. Independent Study in Deaf Studies. 1 - 3 Units
Prerequisite(s): DEAF 154
Term Typically Offered: Fall, Spring

Individual projects designed especially for students capable of independent study.
Note: Departmental petition required.

Decision Sciences (DS)

DS 101. Data Analysis for Managers. 3 Units
Prerequisite(s): MATH 24, STAT 1; must be a business pre-major, business major (any concentration), or business minor, and have at least sophomore standing
Term Typically Offered: Fall, Spring

Second course in business statistics that focuses on the application of statistical methods to business problems. Emphases are placed on case studies, data analysis, model building techniques, statistical reasoning, and communications of statistical results. A statistical computer package will be used in the course.

DS 110. Data Mining for Business Analytics. 3 Units
Prerequisite(s): DS 101 or STAT 103 or ENGR 115 or equivalent. Business, Computer Science, and Mathematics are approved majors to enroll in the course.
Term Typically Offered: Fall, Spring

Data mining methods including data visualization, classification (logistic regression, discriminant analysis), tree-based methods, cluster analysis, principle components analysis, factor analysis, neural networks, classification and regression trees, and facilitated through software. Focus on applications in the business environment.

DS 115. Management Science Techniques. 3 Units
Prerequisite(s): MATH 24, STAT 1; must be a business pre-major, business major (any concentration), or business minor, and have at least sophomore standing.
Term Typically Offered: Fall, Spring

Introduction to management science techniques for the solution and analysis of management problems. Topics include mathematical programming, decision theory, analysis of waiting lines, simulation, and Markov processes.

Design (DSGN)

DSGN 4. Design and Thinking. 3 Units
Term Typically Offered: Fall, Spring

An introduction to critical analysis of visual forms. This course introduces students to core principles of design by establishing and examining the framework around which visual forms are built and used in our society. Common ideas surrounding the logic of visual forms and the possibilities and limitations of their communicative range will be discussed.

DSGN 101. World Design and Visual Culture. 3 Units
Term Typically Offered: Fall only

A history of western and non-western design with an emphasis on how design influences, and is in turn influenced by, cultural, political, economic, and technologic forces. The course will look at design practice (architecture, urbanism, products, graphics, etc.) through two distinct lenses: one focusing on visual and physical qualities, the other on how design effects the lives of the many diverse groups that interact with the products of this practice.

Economics (ECON)

ECON 1A. Introduction to Macroeconomic Analysis. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introductory inquiry into the workings and interrelationships of the aggregate economic system. The primary focus is on total production and its distribution, employment and price levels, and the forces influencing them. Other considerations are the roles of government, the monetary sector, and related areas.

ECON 1B. Introduction to Microeconomic Analysis. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introductory microeconomic analysis of the workings of supply and demand in the determination of price, resource allocation, and distribution. Markets are analyzed as they affect economic efficiency and income distribution.

ECON 100A. Intermediate Macroeconomic Theory. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Analysis of the determinants of the aggregate level of output, income, employment and prices.

ECON 100B. Intermediate Microeconomic Theory. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Analysis of household and firm behavior as the foundation of supply and demand.

ECON 101. History of Economic Thought. 3 Units
Prerequisite(s): ECON 1A, ECON 1B.
Term Typically Offered: Fall, Spring

Analysis of the development of economic theory from the predecessors of Adam Smith through John Maynard Keynes. The contributions made to the discipline by its principal figures are compared and evaluated.

ECON 104. Introduction to the United States Economy. 3 Units
Term Typically Offered: Fall, Spring

One semester survey of the principles of economics, basic methods of economic analysis, and their application to public policy and current events.
Note: Not open to students who have had ECON 1A or ECON 1B or those majoring in economics.

ECON 110. Cost Benefit Analysis. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Examines the rationale for government provision of goods and services and presents cost-benefit analysis as a method to evaluate public participation in a market economy.

ECON 112. European Economic History. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Analysis and evaluation of the economic forces and institutions shaping European economic development through the present period. Attention will be paid to the relationship between changes in the economic environment and attendant cultural, political, and ideological developments in the stages of tribalism, slavery, feudalism, capitalism, and socialism.

ECON 113. Economic History of the United States. 3 Units
Prerequisite(s): ECON 1A or ECON 104.
Term Typically Offered: Fall, Spring

Consideration of the economic growth and development of the U.S. with emphasis on a theoretical analysis of the economic factors shaping the national destiny.

ECON 114. The California Economy. 3 Units
Prerequisite(s): ECON 1A and ECON 1B, or ECON 104.
Term Typically Offered: Fall only

Examination of the process of the development of the State's economy as well as analysis of the various public economic issues that are of contemporary concern to Californians.

ECON 120. Economics and Environmental Degradation. 3 Units
Term Typically Offered: Fall, Spring

Analyzes environmental issues as economic issues. Economics as both a cause and cure for environmental destruction.

ECON 123. Resource Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Analyzes the economic based problem of exhaustion in both renewable and non-renewable resources. Emphasis is given to the optimal use of these resources over time and the effects that various market and non-market factors have on their future availability.

ECON 130. Public Finance. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade; ECON 100B recommended.
Term Typically Offered: Fall, Spring

Economic analysis of the public sector and its impact on the allocation of resources and the distribution of income. Emphasis given to the economics of government expenditure and taxation.

ECON 132. State and Local Government Finance. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall only

Analysis of the economics of state and local government finance, with an emphasis on California's fiscal system.

ECON 135. Money and Banking. 3 Units
Prerequisite(s): ECON 1A and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Examines the role of financial markets, the banking system, and the Federal Reserve System in the economy. Included are an introduction to present value and the behavior of interest rates, analysis of money creation, and evaluation of monetary policy.

ECON 138. Monetary and Fiscal Policy. 3 Units
Prerequisite(s): ECON 1A, STAT 1, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade; ECON 100A and ECON 140 recommended.
Term Typically Offered: Spring only

Analyzes the policies of central banks and fiscal authorities as they relate to the stability and growth of the macroeconomy. Examines the theoretical and empirical literature regarding the conduct of monetary and fiscal policy and applies the tools of economic analysis to understand macroeconomic policy debates.

ECON 140. Quantitative Economic Analysis. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, STAT 1, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Examination of the basics of conducting quantitative economic analysis. Included are basic concepts and methods of data analysis and research. Students will examine economic data using spreadsheets, will develop presentation skills, and be introduced to career opportunities.

ECON 141. Introduction to Econometrics. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, ECON 140, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade; ECON 100A or ECON 100B recommended.
Term Typically Offered: Fall, Spring

Covers the basics of regression analysis, estimation, and forecasting.

ECON 145. Economic Research Methods. 3 Units
Prerequisite(s): ECON 100A, ECON 100B, ECON 140 with a minimum 'C' grade; GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Covers the basics of conducting applied economic research: the selection of topic, literature survey, choice of research method, formulation of hypothesis, testing of hypothesis using empirical analysis, and summary and conclusions. Designed to enhance the students ability to integrate economic theory, quantitative research skills, and research.

ECON 150. Labor Economics. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Spring only

Economic analysis of labor markets, with special reference to employment, wage determination, and the role of government.

ECON 152. Economics of Education. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall only

Introduction to the various aspects of the economics of education. Applies the tools of economic analysis to education policy and problem solving. Topics include cost-benefit analysis of education, the signaling vs. human capital debate, race and gender issues in education, education production functions, and financing education at the elementary, secondary, and post-secondary levels. Emphasis placed on individual and social choice in education.

ECON 153. Health Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall only

Introduction to the field of health economics. Applies the tools of economics to the production of health and health care. Special emphasis on health care institutions, the role of industry, health care reform, and the role of government, in addition to the public provision of care to the disadvantaged.

ECON 160. Industrial Organization. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Spring only

Analyzes firm decision-making in a variety of market settings. Topics include pricing and output decisions, entry and exit issues, marketing strategies, horizontal mergers, vertical integration, technological change, and U.S. antitrust policy.

ECON 161. Fundamentals of Game Theory. 3 Units
Prerequisite(s): ECON 1B, STAT 1, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Spring only

An analysis of strategic games with sequential or simultaneous moves under complete information and uncertainty. Discussion of theory and techniques is combined with examination of specific classes of games and their application to real-world examples such as markets, voting, auctions, and international relations

ECON 162. Energy Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Analyzes the structure, conduct, and consequences of domestic and international energy markets. Particular emphasis on regulated industries including petroleum, electrical, and other power sources. The economic impact on energy markets of emerging technology is examined.

ECON 170. Public Economics and Regulation. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Spring only

Examination of government regulation of industry in the North American context: transportation, communication, energy, and other industries. Issues include deregulation, public ownership, pricing, and investment.

ECON 180. Urban Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Spring only

Economic analysis and appraisal of models of urban development. Includes consideration of the rise of cities, land use, unemployment, poverty, housing, urban renewal, transportation, and the local public sector.

ECON 181. Economics of Racism. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Spring only

Economic analysis of the origins and development of racism, focusing mainly on its impact in the U.S. Differing theoretical explanations surrounding racism will be compared and evaluated.

ECON 184. Women and the Economy. 3 Units
Term Typically Offered: Fall only

Investigation of the current economic status of women in the U.S., of past and present economic discrimination experienced by women in the labor market, of the historical reasons for that discrimination and of the means and methods of ending that discrimination.

ECON 186. Sports Economics. 3 Units
Prerequisite(s): ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Applies the essential economic concepts and develops them with examples and applications from the sports industry. Covers basic economic concepts: economic principles, supply and demand, perfect competition, and monopoly behavior. It also applies these concepts to a variety of topics: the public finance of sports franchises, the costs/benefits of a sports franchise to a city, labor markets and labor relations, discrimination, and amateurism and college sports.

ECON 189. Economics at the Movies. 3 Units
Term Typically Offered: Fall only

Analysis of the use and treatment of economic theory and history in popular American films. Emphasis is placed on the topics of game theory, industrial organization, entrepreneurship, law and economics, labor economics, the stock market, and American economic history. The entertainment industry will also be examined from an economic perspective.

ECON 190. International Trade. 3 Units
Prerequisite(s): ECON 1A, ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Analysis of the causes and results of trade among nations. Introduction to modern trade theory is combined with examination of trade instruments and policy analysis.

ECON 192. International Finance. 3 Units
Prerequisite(s): ECON 1A, ECON 1B and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

Critical examination of the theories and practices of financing trade among nations. International financial and monetary theories focus on how the world and financial system works, given globalization and international economic integration.

ECON 193. Development Economics. 3 Units
Prerequisite(s): ECON 1A, ECON 1B, and MATH 24 or MATH 26A or MATH 30 with a minimum 'C' grade.
Term Typically Offered: Fall, Spring

An analysis of the factors involved in the growth of economies. The focus is on the application of development economics and growth theory to the process of economic growth in developing countries. Particular attention is given to variables that explain growth, namely, technological progress, population growth, saving, trade, human capital and education, and the role of institutions.

ECON 195. Economic Internship. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised economic-related work experience, research, or teaching assistance to provide an opportunity for the student to apply principles and theories learned in the classroom to the 'real world.'
Credit/No Credit

ECON 196E. Behavioral and Experimental Economics. 3 Units
Prerequisite(s): ECON 100B
Term Typically Offered: Fall only

Introduction to the fields of behavioral and experimental economics. Applies tools of microeconomic theory to the decisions made by individuals. Special emphasis on the utility maximization hypothesis, decision making in the face of risk and uncertainty, intertemporal choice, other regarding preferences, game theory, and neuroeconomics.

ECON 197A. Economics Exchange Mentee. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Provides opportunity for lower division students, transfer students, and newly declared majors to be mentored by more advanced upper division students or graduate students. The peer mentoring will help students meet academic deadlines, achieve academic success, become engaged in campus activities and get integrated into the Economics Department.
Note: Units may not be applied towards unit requirement of the Economics major.

Credit/No Credit

ECON 197B. Economics Exchange Mentor. 1 - 3 Units
Prerequisite(s): Upper division or graduate student standing and instructor permission.
Term Typically Offered: Fall, Spring

Provides opportunity for advanced upper division students or graduate students to mentor lower division students. The peer mentoring will help students meet academic deadlines, achieve academic success, become engaged in campus activities and be integrated into the Economics Department.
Note: Units may not be applied towards unit requirement of the Economics major; May be repeated for up to 3 units credit from ECON 197A & ECON 197B combined.

Credit/No Credit

ECON 198. Tutoring in Economics. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised tutorials at educational institutions including Sacramento State where and when appropriate arrangements can be made. Prior approval for tutoring must be obtained from the Economics Department. Emphasis is on the development of effectiveness in the teaching of economics.
Credit/No Credit

ECON 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Admission requires approval of the faculty sponsor and the Department Chair.
Credit/No Credit

ECON 200A. Advanced Macroeconomic Theory. 3 Units
Prerequisite(s): ECON 141 and ECON 200M.
Term Typically Offered: Fall, Spring

Theories of the determinants of aggregate income, employment and prices. May be taken independently of ECON 200B.

ECON 200B. Advanced Microeconomic Theory. 3 Units
Prerequisite(s): ECON 200M.
Term Typically Offered: Fall, Spring

Theories of the consumer, producer, and market structure. May be taken independently of ECON 200A.

ECON 200C. Advanced Applied Economics. 3 Units
Prerequisite(s): ECON 200A, ECON 200B, and ECON 241.
Term Typically Offered: Fall, Spring

Applies empirical analysis to topics in microeconomics and macroeconomics. Topics may include stationarity, vector autoregression, vector error correction models, calibration, fixed effects, instrumental variables, multinomial logit, and duration models. Students implement these models using econometric software. Students will write an empirical paper intended to become a prospectus for the master's thesis.

ECON 200M. Mathematics for Economists. 3 Units
Prerequisite(s): ECON 100A, ECON 100B, MATH 26A.
Term Typically Offered: Fall, Spring

Equips students with the mathematical techniques necessary for the study of economics and econometrics at the graduate level. Covers linear algebra, derivatives, comparative static analysis, optimization, integrals, and differential equations, with specific applications from economic and econometric theory.

ECON 204. Business Economics. 3 Units
Term Typically Offered: Fall, Spring

Intensive one-semester course covering both macroeconomics and microeconomics. Emphasis is on economic analysis and policy. Designed for graduate students who have not taken ECON 1A and ECON 1B or their equivalents.

ECON 213. U.S. Economic Development in Historical Perspective. 3 Units
Prerequisite(s): Admission to MA program in Economics.
Term Typically Offered: Fall, Spring

Introduction and analysis of American economic development from a historical perspective, focusing on the trajectory of American economic development from recent advances in theoretical and empirical economics literature. Cover topics on long-term economic growth, technological change, business cycles and fluctuations, financial markets, labor markets, and economic impacts of social change.

ECON 230. Public Finance. 3 Units
Prerequisite(s): ECON 200B.
Term Typically Offered: Fall, Spring

An analysis of the allocation and distribution effects of government expenditures and taxation.

ECON 238. Monetary and Fiscal Policy. 3 Units
Prerequisite(s): ECON 200A.
Term Typically Offered: Fall, Spring

Analyzes the policies of central bank and fiscal authorities as they relate to full employment and stability of the national economy.

ECON 241. Applied Econometric Analysis. 3 Units
Prerequisite(s): ECON 141
Corequisite(s): ECON 200M
Term Typically Offered: Fall, Spring

Applied econometric analysis with emphasis on the use of econometric techniques in economic research settings, expressing economic theory in the form of econometric models, data collection, estimation, and interpretation of results. Students work individually or as a team on a current research topic from various fields of economics preselected or approved by instructor.

ECON 251. Urban Problems, Economics and Public Policy. 3 Units
Term Typically Offered: Fall, Spring

Historical development, economics and possible policy solutions of the most pressing problems facing central cities and urban areas in the U.S. are presented. Problems discussed include poverty, crime, urban abandonment/suburban sprawl, edge cities, deteriorating infrastructures, and fiscal stress.
Cross Listed: PPA 251; only one may be counted for credit.

ECON 260. Industrial Organization and Performance. 3 Units
Prerequisite(s): Classified graduate status in Economics or instructor permission.
Term Typically Offered: Fall, Spring

A modern analysis of industry structure, conduct, and performance. Emphasis is placed on the use of game theory to address firm behavior, including price and output decisions, entry and exit, horizontal mergers, technological change, and marketing issues.

ECON 263. Food Economics. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to advanced economic theory and econometric methods applied to the economics of food with emphasis on food consumption and the complexity of individual food choices. Utilizing cost-benefit analyses and concepts like constrained utility maximization, household production, opportunity costs of time, and information search, implications for a global food system will be derived. We will apply learned concepts to health and environmental concerns by discussing the recent applied economics and policy evaluation literature.

ECON 265. Cost Benefit Analysis. 3 Units
Term Typically Offered: Fall, Spring

Examination of the theories, foundations, and philosophies of economic welfare. Specifically, the basic techniques of cost-benefit analysis will be presented and applied to various policy issues.

ECON 290. International Trade. 3 Units
Prerequisite(s): Classified graduate status in Economics or instructor permission.
Term Typically Offered: Fall, Spring

Analysis of modern trade theories, their empirical relevance, and the role of multinational firms in the evolution of international trade patterns. Discussion focuses on theoretical and empirical evaluation of trade policy instruments. Various trade agreements are also discussed in the context of economic integration and globalization. Attention is also given to foreign direct investment as a vehicle of globalization and the challenges it poses to both multinational firms and host countries.

ECON 295. Economic Internship. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience or research on economic topics in government, financial, business, charitable or other kinds of institutions to provide an opportunity for the student to apply principles and theories learned in the classroom to the 'real world.' Partial supervision may be supplied by persons in the institution under study.
Credit/No Credit

ECON 298. Tutoring In Economics. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised tutorials at educational institutions including Sacramento State where and when appropriate arrangements can be made. Prior approval for tutoring must be obtained from the Economics Department. Emphasis is on the development of effectiveness in the teaching of economics.
Credit/No Credit

ECON 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Admission requires approval of the faculty sponsor and the Department Chair.
Credit/No Credit

ECON 500. Master's Thesis. 3 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree. Should be taken in final semester prior to the completion of all requirements for the degree.

Ed.D. in Educational Leadership (EDD)

EDD 600. Transformational Leadership. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Designed to engage students in understanding, implementing, and evaluating strategic leadership practices based on various theories, models, and approaches for achieving organizational transformation. Students will become skilled facilitators of the organizational transformation process by initiating, implementing, sustaining, and evaluating transformation/change efforts. Students will build a solid foundation through the integration of theory and practice in order to implement a planned change process in their home institution.

EDD 601. Organizational Leadership. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Builds and expands on candidates' knowledge of systems thinking, personal and organizational behaviors, and leadership approaches to the change process. Candidates will demonstrate ethical thinking and action in organizational settings by re-conceptualizing leadership roles and organizational structures. In coursework and related fieldwork components students will apply concepts and theories to improving their respective educational institutions. Among the interactive pedagogies used are: case studies, experiential exercises, dialogue and group activities.

EDD 602. Policy and Practice for Educational Leaders I. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Develops in students the skills for informed analysis of educational policy in order to positively influence the educational policy in the K-12 or community college setting. In addition to studying the historical perspectives pertaining to educational policy, practice, and reform, students will investigate the mission of public education. Students will also study governance and inter-governmental relations through contemporary policy development with particular reference to current law, local board policy, shared governance, and working with a variety of constituencies.

EDD 603. Policy and Practice for Educational Leaders II. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Designed to engage students in critical analyses of policy at the local, state, national, and international levels. Specific California and federal policy environment structures and processes will be examined. Students will learn about how public policy is generated, potential consequences, ethical dilemmas, social justice, and equity issues.

EDD 604. Introduction to Educational Research. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program.
Term Typically Offered: Fall only

This course will introduce students to the uses of qualitative and quantitative data analysis by educational leaders for the purpose of improving student and organizational outcomes. In addition, the student will be introduced to qualitative, quantitative and mixed-methods research designs in preparation for conducting independent research and designing a doctoral dissertation. This course will also enable students to critically understand and critique various forms of data and apply it appropriately to a variety of educational issues.

EDD 605. Qualitative Research Methods. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program.
Term Typically Offered: Spring only

This course is designed to provide doctoral students with instruction in qualitative research approaches as applied to questions of educational leadership and policy. The course will emphasize individual and group interviewing as techniques for qualitative study data collection as well as coding and analysis of qualitative data. This course is particularly useful for doctoral students who plan to conduct a qualitative or mixed method dissertation related to an educational leadership and/or policy topic.

EDD 606. Quantitative Research Methods. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program.
Term Typically Offered: Fall only

This course will introduce educational leaders to concepts in quantitative research in preparation for conducting independent research. This course will enable students to critically understand, critique, and develop quantitative research methodology and apply it appropriately to various educational issues.

EDD 607. Community and Communication in Educational Leadership. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Presents theories and frameworks concerning organizational, interpersonal, and cross-cultural communication in educational and community contexts. Includes developing written and verbal skills for specific contexts, including strategic planning, evaluation, presentations, formal and informal texts, technology, crisis management, and public relations. Through research and practical application, enhances communication skills needed for creating inclusive systems and positive results for all stake-holders.

EDD 608. Diversity and Equity in Complex Organizations. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Designed to engage students in self introspection of awareness and advocacy in applying theoretical frameworks and research to promote equitable, excellence in schooling. Students will demonstrate the ability to develop cross-cultural relationships across multiple constituents for the purpose of improving students performance and promoting social justice. Students will develop the capacity to be courageous change agents in assuring academic excellence for all students.

EDD 609. Human Resource Management for Educational Leaders. 3 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Examines how to manage human resources effectively in the dynamic legal, social, and economic environment currently impacting educational institutions. Among the topics included are: formulation and implementation of human resource strategy, job analysis, methods of recruitment and selection, techniques for training and development, performance appraisal, compensation and benefits, and the evaluation of the effectiveness of human resource management frameworks and practices. Class participants will be expected to demonstrate understanding of Human Resource Management (HRM) competencies through assignments, exercises and case analyses.

EDD 610. Curriculum and Instruction Issues for Educational Leaders. 3 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Presents curriculum and instruction from a leadership perspective within the contexts of K-12 schools and community colleges. Students examine contemporary issues in school curriculum, including policy initiatives and reform efforts affecting curricular decision-making. Prepares students to analyze and design appropriate strategies for implementing and evaluating district and school curricula and to investigate the implications of curricula for educational programming. Students also learn specific foundations and procedures for professional development that have well-documented effects on student achievement.

EDD 611. Legal Issues for Educational Leaders. 2 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Examines key legal issues that govern daily and long-range decisions of educational leaders. Focuses on understanding California and federal codes, case law, policies, and significant precedent and will emphasize analysis of key legal concepts and application of law to major areas including finance, personnel, risk management, curriculum, student services, teacher rights, torts, students rights, and access. Examines trends in law and the initiation and influence of educational law to positively influence educational institutions.

EDD 612. Student Services in Education. 2 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Provides a comprehensive insight into the student services. It addresses both practical and theoretical perspectives intended to build a sense of vision and passion to transform the profession of student affairs and leadership. In particular, examines four distinct arenas: 1) historical and philosophical foundations of student affairs and leadership 2) management and organizational issues, 3) essential skills and professional development in building an equitable organization, and 4) the synthesis of practice and theory.

EDD 613. Finance and Budget for Educational Leaders. 2 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Analyzes two related topics with respect to public educational institutions: funding and internal budget management. Provides a state and national overview of the economics and finance of K-12 and higher education, including private and public benefits of education, methods of financing public education, and contemporary policy issues regarding school and college finances. Focuses on how educational leaders can most effectively manage resources to further the vision, goals, and philosophy of the organization.

EDD 614. Issues in Educational Leadership: Synthesis and Application. 3 Units

Prerequisite(s): Admission into the Ed.D. in Educational Program and instructor permission.
Term Typically Offered: Fall, Spring

This problem based seminar integrates the three themes of the program. Includes conducting a review of the literature that will later be integrated into the candidates' proposal. In addition, each student will study and select theoretical frame/s that supports their doctoral topic. Students will also work in teams formed by research interests. They will present findings to classmates in forums that they facilitate and they will critique each other's work.

EDD 615. Dissertation Proposal Seminar. 6 Units

Prerequisite(s): Passed Ed.D. Qualifying Examination and instructor permission.
Term Typically Offered: Fall, Spring

Provides faculty and peer guidance in preparation of material to develop the dissertation proposal. Students will be guided in the clarification of dissertation topic, familiarization with relevant literature, and the development of a sound methodology. Students will learn how to critically analyze and provide constructive criticism to key research components proposed by others. At the end students are expected to complete the first three chapters of their dissertation in anticipation of their dissertation defense.

EDD 616. Dissertation I. 6 Units

Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.
Note: Students must have passed their qualifying examination and successfully defended their dissertation proposal.

Credit/No Credit

EDD 616A. Dissertation I - Seminar. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Corequisite(s): EDD 616B.
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program. This course provides a 3 unit seminar in support of the first phase of the dissertation.
Note: Students must have passed their qualifying examination and successfully defended their dissertation proposal.

Credit/No Credit

EDD 616B. Dissertation I - Research and Writing. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission.
Corequisite(s): EDD 616A
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.
Note: Students must have passed their qualifying examination and successfully defended their dissertation proposal.

Credit/No Credit

EDD 617. Dissertation II. 6 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and completion of EDD 616 and instructor permission.
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.

EDD 617A. Dissertation II - Seminar. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission. EDD 616A.
Corequisite(s): EDD 617B.
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program. This course provides a 3 unit seminar in support of the second phase of the dissertation.
Note: Students must have passed their qualifying examination and successfully defended their dissertation proposal

Credit/No Credit

EDD 617B. Dissertation II - Research and Writing. 3 Units
Prerequisite(s): Admission into the Ed.D. in Educational Leadership Program and instructor permission. EDD 616B.
Corequisite(s): EDD 617A.
Term Typically Offered: Fall, Spring

Each candidate will work with a dissertation advisor (dissertation committee chair) to conduct independent research leading to the completion of a dissertation. Twelve units of dissertation study will be required for completion of the program.
Note: Students must have passed their qualifying examination and successfully defended their dissertation proposal.

Credit/No Credit

Education (ED)

ED 300B. Teaching Performance Assessment-Multiple Subject-Literacy. 1 Unit
Prerequisite(s): Candidate in good standing in a teacher preparation program.
Corequisite(s): EDBM 402B or EDTE 420B.
Term Typically Offered: Fall, Spring

Candidates in the Teacher Preparation Program must complete the Teaching Event for the Performance Assessment for California Teachers. The Teaching Event requires candidates to plan and teach an instructional sequence in their student teaching placement. They must also assess student learning during this lesson sequence and submit a videotape with material recorded during the lesson sequence. The Teaching Event is a summative assessment and one of several requirements that must be completed in order to receive a recommendation for a teaching credential.
Credit/No Credit

Education (EDUC)

EDUC 10. Critical Thinking and the Educated Person. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Examines thinking process patterns and dispositions, for self, children, parents and educators. Familiarizes students with critical thinking, provides a systematic approach to its process and components. Students will learn about problem solving, decision-making, logical and creative thinking. The study of critical thinking will be supplemented with readings, discussions, and written assignments. Implements critical thinking applications used both in student's academic and personal lives.

EDUC 10H. Critical Thinking and the Educated Person: Honors. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

This introductory course will examine the thinking process patterns and dispositions for self, children, parents and educators. The purpose of this course is to familiarize students with critical thinking, and to provide a systematic approach to its process and components. Students will learn about problem solving, decision-making, logical and creative thinking. The study of critical thinking will be supplemented with readings, discussions, and written assignments. The course will implement critical thinking applications used both in student's academic and personal lives.

EDUC 18. Mathematical Practices Across Cultures. 3 Units
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Introduction to diverse mathematical thought, action and practices across cultures. Mathematics will be seen from a diversity of contexts. Learners will consider how diverse contexts and traditions both reflect a culture's heritage and world view and influence the mathematics learned and used. Topics covered include: ethnomathematics, mathematical modeling, and cultural connections in relation to diverse forms of quantitative reasoning, problem solving, numbering, systems of organization, perceptions of time and space as experienced by diverse traditions and peoples.

EDUC 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

EDUC 99. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual projects designed especially for lower division students capable of independent study. Focus is on issues and topics involving exceptional populations.
Note: may be repeated for up to 12 units of credit

Credit/No Credit

EDUC 100A. Educating Students with Disabilities in Inclusive Settings. 2 Units
Corequisite(s): EDUC 100B.
Term Typically Offered: Fall, Spring

This course provides an overview of current knowledge about individuals with disabilities within the context of inclusive educational and community-based settings, with substantial focus on the role of the educator in the education of students who have disabilities in diverse communities. Content includes historical factors, legislation, causes and characteristics, educational needs, educational strategies, including educational technologies, assessment, collaboration, and support services for individuals with disabilities ranging across mild, moderate, severe, and profound disability levels.
Note: Designed to meet the Special Education requirement for a clear multiple and single subject credential.

EDUC 100B. Educating Students with Disabilities in Inclusive Settings Lab. 1 Unit
Corequisite(s): EDUC 100A.
Term Typically Offered: Fall, Spring

Field-based 30 hour experience. Lab is a synthesis and application of EDUC 100A course content in educational setting for students who receive special education services. Students will verify multiple experiences across the age-span and in inclusive educational settings, agencies, and community environments.
Credit/No Credit

EDUC 101A. Consultation Strategies for Educators of Students with Disabilities. 2 Units
Corequisite(s): EDUC 101B.
Term Typically Offered: Fall, Spring

Basic skills for effective collaboration and teaming are practiced through simulations, reflective case study analyses, and interviews with families, paraprofessionals, and related service providers. Cultural, socioeconomic and organizational implications are analyzed.

EDUC 101B. Consultation Strategies for Educators of Students with Disabilities - Lab. 1 Unit
Corequisite(s): EDUC 101A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDUC 101A) in the development of basic collaboration strategies for individuals with mild/moderate disabilities. Students are required to participate in class visitations, interviews, and other field assignments.
Credit/No Credit

EDUC 102. Foundations in Career and Technical Studies. 3 Units
Prerequisite(s): Students need to be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

This course will introduce students to Career & Technical Studies with a focus on college and career readiness by developing a foundation for careers as teachers, trainers, and facilitators in the public and private sector. Students will also explore brain based learning, historical and legislative developments in CTE and Adult Education, lesson plan development, as well as different teaching and learning strategies for participation in a 21st century workforce.

EDUC 103. Assessment and Instruction in Adult and Organizational Training. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Demonstrates how to develop performance criteria, continuously assess learner performance levels and evaluate student achievement. Students develop a standard-based course outline and prepare training modules and units of instruction of use for individual, small group and whole class delivery systems.

EDUC 104. Teaching Issues of Diversity in Schools and Workplace. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Demonstrates how to encourage excellence among and design instruction from different gender, ethnic, sexual orientation, language, and ability groups. This course aims to include research and discussion on education and employment law in regards to sensitivity towards cultural heritages, principles of language acquisition, bias free instructional/ workplace materials and inclusive practices.

EDUC 105. Advanced Instructional Design, Program Evaluation and Leadership in Career Technical Studies. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Explores aspects of CTS program design and management. Investigates aspects of organizing a program following guidelines detailed in the California Career Technical framework. Considers methods of program evaluation following the model set forth by the Western Association of Schools and Colleges (WASC). Examines leadership qualities and values, analyzing potential benefits and liabilities of various leadership styles.

EDUC 106. Individual Growth Through the Examination of Personal Assets, Philosophies and Life Experiences. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

This course is designed as a primer for EDUC 107 by introducing concepts, exercises, and research that focus on the personal elements associated with leadership and self-growth. Participants will develop greater self-awareness and understanding of key personal assets/ issues that impact leadership development and enhance organizational communication and growth. The impact of life experiences and personal philosophies will be discussed as they relate to effective leadership development. An inter-interdisciplinary approach to personal growth and development will be emphasized.

EDUC 107. Designing Solutions. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Offers student participation in innovative solutions to organization, team, and individual needs. Using design thinking¿s iterative process, students will be able to identify needs and develop potential solutions to meet those needs to improve performance.

EDUC 109. Career Guidance in Career Technical Studies. 1 Unit
Prerequisite(s): Application for Review of Work Experience. Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Examines the professional history of students and assists them in gathering documentation to support their Experimental Learning Portfolio for submission to the CSU Reviewing Committee. Assists students in identifying goals for professional accomplishment.
Credit/No Credit

EDUC 110. Current Issues in Workforce Development. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Course provides an in-depth investigation of various challenges and issues facing workforce development professionals in the public and private sectors. Students will utilize Design Thinking tools in order to identify and study critical workforce development issues, and develop solutions that benefit the individual and organization.

EDUC 111. Education for Career Technical Students with Special Needs. 3 Units
Term Typically Offered: Fall, Spring

Introduces concepts and practices of inclusion of special needs students as provided for under federal legislation and case law. Methods of adapting instruction and devising positive behavioral supports for students of diverse abilities are studied. Methods of assessing the progress of students with diverse abilities are examined.

EDUC 112. Organizational Policies, Finance and Legislation. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

This course aims to provide students with information which will enhance their understanding of organizational finance, legislation and policies. Critical to this course is the understanding that Career and Technical Education (CTE) organizations rely on local, state and national policy, finance and legislation to function.

EDUC 113. Implement Digital Technologies with Ethical Knowledge. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Develop professional competencies in digital and emerging technologies, defined by the National Association of Colleges and Employers (NACE) taskforce. Cultivate a keen awareness about digital technologies when blending fundamental ethical principles and foresight to make quality decisions. Identify and implement effective pathways to learn and ethically adapt emerging technologies strategically. Solve problems effectively to attain sustainable goals.

EDUC 114. Theories and Practices of Multiculturalism in Schools and Organizations. 3 Units
Prerequisite(s): Students must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

An introduction to the study of multiculturalism and its impact on schools and the workplace. The primary objective is to provide a learning environment which is conducive to the development of knowledge, understanding, and skills consistent with multicultural training and pluralistic philosophies. Students will examine the work of adult education theorists and business scholars that impact schools and the workforce. The course examines social institutions, beliefs, customs, and social trends affecting adult education, organizations, and the workforce.

EDUC 115. Improvement Science for Organizational Effectiveness. 3 Units
Prerequisite(s): Student must be admitted to the BSCTS program.
Term Typically Offered: Fall, Spring, Summer

Course explores improvement science methods for disciplined inquiry to solve specific problems of practice. Using assessment tools, strategic planning, systems thinking and organizational development, this course focuses on creating innovative solutions to business and marketplace challenges.

EDUC 116. Methods of Inquiry in Career Technical Studies. 3 Units
Prerequisite(s): Student must be admitted to the BSCTS program
Term Typically Offered: Fall, Spring, Summer

This course provides students with a broad overview of methods and models of academic research. Students will evaluate sources and prioritize those with the highest quality according to key identifying factors. Students will gain understanding of how individual research models are matched to specific issues and problems within the domain of Career Technical Studies, and relate these to their own individual growth and career development based upon their particular interests, goals and strengths.
Credit/No Credit

EDUC 117. Field Experience in Career Technical Education. 1 - 6 Units
Prerequisite(s): Student must be admitted to the BSCTS program
Term Typically Offered: Fall, Spring

Individualized field experience designed collaboratively by the student and instructor.
Note: Department consent required

Credit/No Credit

EDUC 118. Integrative Perspectives in Leadership. 3 Units
Prerequisite(s): Students must be admitted to BSCTS program.
Term Typically Offered: Fall, Spring, Summer

This course explores methods of integrative thinking, holistic leadership practices, cultural perspectives, and mindful communication techniques for current and future leaders. This course defines leadership styles and gives students the opportunity to apply integrative thinking models across multiple disciplines.

EDUC 120. Literature For Children. 3 Units
Prerequisite(s): Must have Junior or higher standing to enroll in this course
Term Typically Offered: Fall, Spring

Historical and modern children's literature; standards of selection and acquaintance with the leading authors and illustrators; procedures and practices in methodology.

EDUC 121. Multicultural Children's Literature. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

Survey of historical and modern multicultural children's literature examining standards of selection and acquaintance with the leading authors, illustrators and book awards; procedures and practice in methodology. Focus on children's literature which represents the diversity in America and fosters an understanding of the cultural values, identity, and heritage of those populations.

EDUC 124A. Tutoring Children in Mathematics. 2 Units
Corequisite(s): EDUC 124B.
Term Typically Offered: Fall, Spring

Orientation to concept and practice of tutoring basic mathematics skills including developing conceptual understanding and the ability to scaffold instruction of addition, subtraction, multiplication and division of whole numbers, fractions, and decimals. After completing on-campus training, students are placed in nearby school districts. May be taken by all undergraduate students and is strongly recommended for students considering careers in education, criminal justice, psychology, and social work. It may also be used as an elective in the Blended Teacher Education Program.
Note: May be taken twice for credit.

Credit/No Credit

EDUC 124B. Tutoring Children in Mathematics: Practicum. 1 Unit
Corequisite(s): EDUC 124A.
Term Typically Offered: Fall, Spring

Practicum of tutoring basic mathematics skills and scaffolding instruction of addition, subtraction, multiplication and division of whole numbers, fractions, and decimals. After completing on-campus training, students are placed in nearby school districts. May be taken by all undergraduate students and is strongly recommended for students considering careers in education, criminal justice, psychology, and social work. It may also be used as an elective in the Blended Teacher Education Program.
Note: May be taken twice for credit.

Credit/No Credit

EDUC 125A. Tutoring Children in Reading. 2 Units
Corequisite(s): EDUC 125B.
Term Typically Offered: Fall, Spring

Orientation to concept and practice of tutoring basic reading skills including sight word recognition, word analysis skills, oral fluency, and comprehension. After completing on-campus training, students are placed in nearby school districts.
Note: Strongly recommended for students considering careers in education, criminal justice, psychology and social work. May be repeated once for credit. May also be used as an elective in the Blended Teacher Education Program.

Credit/No Credit

EDUC 125B. Tutoring Children in Reading Practicum. 1 Unit
Corequisite(s): EDUC 125A
Term Typically Offered: Fall, Spring

Field-based course provides a synthesis and application of course content learned in EDUC 125B. Students are placed in a primary level setting for at-risk students who read approximately two grade levels below their peers. The twice-weekly practicum focuses on comprehension questioning strategies, learning styles and differences, multicultural and ESL strategies, Reader's theater and poetry, and motivating students to achieve greater academic success.
Note: May be taken by all undergraduate students and must be taken concurrently with EDUC 125A.

Credit/No Credit

EDUC 126. Assisting the Elementary Classroom Teacher. 3 Units
Prerequisite(s): EDUC 125A.
Term Typically Offered: Fall, Spring

Directly connected to hands-on classroom experiences. Students will be intensively trained in workshops, and will work as teacher assistants in public schools (4 hours per week). Students will learn strategies for working with diverse groups of students at all grade levels; keep weekly tutoring logs; and write a case study on a student and present their findings to the class. Students will reflect on their own growth and development.
Note: May be repeated once for credit.

Credit/No Credit

EDUC 127A. Field Experience in After School STEM Programs. 2 Units
Corequisite(s): EDUC 127B
Term Typically Offered: Fall, Spring

Orientation to high quality Science, Technology, Engineering, and Mathematics (STEM) instruction. On-campus training includes skills to develop conceptual understanding and ability to scaffold instruction for elementary and middle school aged students in STEM after school programs. After completing on-campus training, students assist with instruction in nearby school STEM programs.
Note: May be taken twice for credit

Credit/No Credit

EDUC 127B. Field Experience in After School STEM Programs: Practicum. 1 Unit
Corequisite(s): EDUC 127A
Term Typically Offered: Fall, Spring

This course is designed to connect students with local public school partners in after school programs that support inquiry based STEM activities with K-8 children. After completing on-campus training, students then complete the practicum.
Note: May be taken twice for credit

Credit/No Credit

EDUC 128. Education and Communication in Korean Society. 3 Units
Term Typically Offered: Fall, Spring

This course is designed to explore various dimensions of the education and the communication in Korea. It will focus on (a) the Korean educational philosophy, system, and practices of all levels -preschool to higher education; (b) the Korean language in a variety of communicative contexts; and (c) how education and communication shape and interface. The similarities and differences in education and communication between South Korea and the United States will be also investigated.

EDUC 130A. Typical & Atypical Developmental Characteristics and Outcomes for Young Children with Disabilities. 2 Units
Prerequisite(s): CHDV 30 or approved equivalent.
Corequisite(s): EDUC 130B.
Term Typically Offered: Fall, Spring

Examination of disabilities and risk factors and their influence on developmental competencies and outcomes for infants, toddlers, and young children. Content will include typical developmental patterns of young children, atypical development due to prenatal, perinatal and early childhood developmental risk factors including low incidence disabilities, and an introduction to interventions in a range of community settings to address the unique needs of these children and their families. Lecture.

EDUC 130B. Typical & Atypical Development Characteristics and Outcomes for Young Children with Disabilities Lab. 1 Unit
Prerequisite(s): CHDV 30 or approved equivalent.
Corequisite(s): EDUC 130A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of lecture/discussion course content in home based, center based, and community settings serving infants, toddlers, and young children with disabilities and their families.
Credit/No Credit

EDUC 131A. Introduction to Family Centered Service Delivery In Early Childhood Special Education. 2 Units
Prerequisite(s): EDUC 130A and EDUC 130B or its equivalent.
Corequisite(s): EDUC 131B.
Term Typically Offered: Fall, Spring

Designed to enable participants to gain knowledge and develop skills necessary to provide culturally responsive, family-centered approaches to assessment and intervention for infants and young children with disabilities. Focus will be on the historical, theoretical, and philosophical bases for family-centered service delivery, including an emphasis on understanding family systems and family life stages, respect for cultural diversity, the IFSP process, collaborative parent-professional relationships, parent advocacy, and transition planning. Lecture.

EDUC 131B. Introduction to Family Centered Service Delivery in Early Childhood Special Education Laboratory. 1 Unit
Prerequisite(s): EDUC 130A and EDUC 130B or its equivalent.
Corequisite(s): EDUC 131A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of lecture course content (EDUC 131A) in home-based , center-based and/or community settings serving infants and young children with disabilities and their families.
Credit/No Credit

EDUC 155. Introduction to Counseling. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the profession of counseling, including differences between professional counseling and other professions, counseling theories, consultation skills and an introduction to basic counseling skills. Lecture three hours.
Note: Open to unclassified students on a space available basis. Required prerequisite for the Master of Science in Counseling and requirement for the Counseling minor, not included in 200-series 60 unit program for master's degree. Instructor approval required.

EDUC 156. Power, Privilege and Self Identity in Counseling. 3 Units
Term Typically Offered: Fall, Spring

Focuses on understanding how one's values, attitudes, belief systems impact perception of differences related to race, ethnicity, culture, etc. Experiential activities promote self awareness while developing capacity in becoming a culturally responsive/skilled counselor. Historical processes that created inter and intra group constructs are explored.
Note: Open to unclassified students on a space available basis. Required corequisite for the Master of Science in Counseling and requirement for the Counseling Minor, not included in 200-series 60 unit master's degree. Instructor approval required.

EDUC 157. Child and Family Psychopathology. 3 Units
Prerequisite(s): Students minoring in couseling must take CHDV 30 or CHDV 35 or PSYC 2.
Term Typically Offered: Fall, Spring

Examines the etiology of development and mental health issues in children, youth and caregivers, including genetic and socio-cultural factors. The classification and treatment of abnormal behavior within family contexts will also be explored. Recommended for human services majors such as child development, education, psychology, counseling, social work and criminal justice.

EDUC 160. Urban Education. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Designed to enhance students' knowledge of urban schooling, especially related to dynamics of race, class, and culture. Along with a Service Learning component in urban schools, provides analysis of the following: historical, socioeconomic, and political factors influencing urban education; the distribution of opportunity in cities and their schools; and effective instructional organizational practices that close the achievement gap, including the development of positive school cultures and the use of community services and resources.

EDUC 165. Sex Role Stereotyping in American Education. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

This course is designed to introduce students to the educational programs and practices resulting from societal sex role and racial stereotyping. It analyzes the specific effects of sex and race inequalities in the total school setting.

EDUC 168. Foundational Issues for a Multicultural, Pluralistic Society, B. 3 Units
Prerequisite(s): Admission and enrollment in BMED multiple subject credential program; EDBM 117.
Corequisite(s): EDBM 402B.
Term Typically Offered: Fall, Spring

Critical examination of the socio-political relationship between California's public schools and its major population subgroups (as defined by culture, gender, social class, language, race/ethnicity, and ability). Candidates critically reflect on the philosophy and practices of schooling in relation to students' culture, family and community; analyze institutional and instructional practices for educational equity; and develop alternative instructional activities based on the principles of multicultural education and English language learning in a democratic society. Lectures, discussions, small group work, simulations, field tasks.

EDUC 169. Cross-Cultural Bridges: A Humanist Approach to Education. 3 Units
Term Typically Offered: Fall, Spring, Summer

This course is designed to expand students¿ knowledge of how history informs present day dynamics of race, culture, and socioeconomic status in education. Students will examine how humanists in history navigated cultural differences. A critical discourse that centers on humanist pedagogy will be used to show how future educators, leaders, and students can evolve in their own identities to understand cultural differences and how they can create change.

EDUC 170. Bilingual Education: Introduction to Educating English Learners. 3 Units
Term Typically Offered: Fall, Spring

Introductory study of important themes regarding the education of English Learners. Covers the history of bilingual education; relevant legal mandates and court rulings; first and second language acquisition; linguistic development; theory and practice of effective programs; and beginning methods, materials and strategies responsive to the students' primary language and assessed levels of English proficiency. A fieldwork component involving the tutoring of an English Learner is required.
Note: EDUC 170 is a prerequisite for EDMS 272, EDBM 279.

EDUC 171. Bilingualism in the Classroom. 3 Units
Term Typically Offered: Fall, Spring

Provides an overview of the language factors that impact first and second language acquisitions in the K-12 classrooms and will provide opportunities through which they will build a palette of strategies that can be utilized to enhance language development within the realms of listening, speaking, reading, writing, and thinking. A combination of theory and practice will provide the base as students read, discuss, listen to lectures, view videos, conduct in class and field-based tasks, and synthesize their thoughts in writing.

EDUC 172. Introduction to Hmong Literacy. 3 Units
Prerequisite(s): Fluent in Hmong
Term Typically Offered: Fall, Spring

This course covers fundamental literacy components of the Hmong language. It examines the historical development and maintenance of the Hmong oral and written language and related issues based on lectures, class discussions, group work, writing assignments, and a research paper. It fulfills one of the requirements for teaching credential students pursuing the Bilingual Cross Cultural Authorization (BCLAD).

EDUC 173. Hmong History and Culture. 3 Units
Term Typically Offered: Fall, Spring

This course covers history of the Hmong dated 5,000 years ago to the present. It examines Hmong history and culture as it evolves through living in various Asian countries and in the United States through lectures, class discussions, group work, writing assignments, and a research paper.

EDUC 175. Pedagogy and Academic Language Skills in Spanish for Bilingual Educators. 3 Units
Prerequisite(s): Spanish fluency/literacy required.
Term Typically Offered: Fall only

This course is designed to provide participants background and foundational knowledge in Standard Spanish language use, language varieties in Spanish, issues of power and language in our society, academic language use, and bilingual methods. Participants will examine theoretical and practical issues in bilingual language use in society and in the classroom. Participants will learn and apply bilingual teaching methods, will analyze children's bilingual language use, and also will evaluate Spanish medium texts and trade books.

EDUC 190A. Becoming an Educator I. 2 Units
Prerequisite(s): All of the following: CHDV 30 or CHDV 35; and CHDV 35F, or equivalents.
Term Typically Offered: Fall, Spring

This is the first in a 2-course series on education as an academic area and profession, designed for students enrolled in teaching credential courses prior to bachelor¿s completion. Examines personal and academic attributes and achievements necessary for becoming an educator in the general or special education context. This course focuses on fostering personal attributes and fulfilling requirements for entering the profession. Students will complete academic and biographical readings and 30 hours of elementary (TK-8th) classroom observation.

EDUC 190B. Becoming an Educator II. 1 Unit
Prerequisite(s): EDUC 190A.
Term Typically Offered: Spring only

This is the second in a 2-course series on education as an academic area and profession, designed for students enrolled in teaching credential courses prior to bachelor¿s completion. Examines personal and academic attributes and achievements necessary for becoming an educator in the general or special education context. This course focuses on gaining experience in the diverse classroom setting and engaging in reflective teaching practices. Students will complete biographical readings and at least 20 hours of elementary (TK-8th) classroom observation.
Credit/No Credit

EDUC 194. Cooperative Education Experience. 3 Units
Prerequisite(s): Approval of Department Chair.
Term Typically Offered: Fall, Spring

Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in the student's major field of study and academic credit. Students receive employment in school districts, state and community agencies, companies, and other appropriate settings. Requires attendance at weekly meetings, preparation of application packet, completion of field study assignment and a written final report.
Note: Units may not be used to meet course work requirements.

Credit/No Credit

EDUC 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects designed especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and Department Chair.
Credit/No Credit

Education - Bilingual/Multicultural (EDBM)

EDBM 128. Foundations for Multicultural Secondary Education, B. 3 Units
Prerequisite(s): Admission to Single Subject Credential Program; Successful completion of EDBM 127.
Corequisite(s): EDBM 400B.
Term Typically Offered: Fall, Spring

Critical examination of the socio-political relationship between California's public schools and its major population subgroups (as defined by culture, gender, social class, language, race/ethnicity, and ability). Candidates critically reflect on the philosophy and practices of schooling in relation to students' culture, family and community; analyze institutional and instructional practices for educational equity; and develop alternative instructional activities based on the principles of multicultural education and English language learning in a democratic society. Lectures, discussions, small group work, simulations, and field tasks.

EDBM 205. Education for a Democratic, Pluralistic Society. 3 Units
Term Typically Offered: Fall, Spring

Advanced study of social, cultural, historical, philosophical and psychological issues related to the teaching and learning of culturally and linguistically diverse students. In-depth consideration of the implications of theories and research related to the history of educational reform, the history and culture of the teaching profession, the nature of learning for linguistically and culturally diverse students, the relationship between schooling and democratic society, and the barriers to all of the above.

EDBM 220. Multicultural Curriculum, Advocacy, and Community. 3 Units

Term Typically Offered: Fall, Spring

This seminar is a philosophical and pedagogical exploration of the historic, legal and sociocultural foundations of American education with emphasis on issues of power, identity, representation, and change. It examines how history, political and economic agendas, and discrimination shape schooling access and curriculum practices; and, considers ways to transform education to strengthen student-family-community-school involvement. This course is applied in that it mandates that students develop an action research plan for implementing or strengthening student-family-community-school involvement in schools and/or community settings.

EDBM 228. The Academic and Social Value of Ethnic Studies. 3 Units
Term Typically Offered: Fall, Spring

Introduces Ethnic Studies history, research, policy, and classroom practice. The primary focus is on Ethnic Studies education in grades 9-12. Readings for this course include current research on the academic and social value of particular approaches to teaching Ethnic Studies; new and developing California school district policy; recent California laws and resolutions regarding the establishment of Ethnic Studies as a high school graduation requirement; and Memorandums of Decision from Federal Court cases related to Ethnic Studies.

EDBM 235. Research Seminar on Bilingualism and Language Varieties in Education. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Designed for graduate students who already have some preparation in the area of Bilingualism and language varieties as they relate to the schools. Uses a seminar format to explore the latest research in the areas of first and second language acquisition of bilinguals, acquisition of standard and nonstandard dialects, and related sociolinguistic issues. Special attention will be given to research about language varieties used in the U.S. (Black English, Chicano English, Chicano Spanish, Hawaiian English and so on.)

EDBM 245. Advocacy, Change and Community. 3 Units
Term Typically Offered: Fall, Spring

Focus on learning theories behind and the methods for creating social change. Development of skills needed to differentiate social problems from their symptoms, and to coalesce key community members and agencies toward effecting social change. Additional study of strategies needed to assess the success of change efforts, and how to learn from challenges.

EDBM 250. Education Research. 3 Units
Prerequisite(s): Graduate status.
Term Typically Offered: Fall, Spring

Studies qualitative and quantitative methods in the development of reliable knowledge in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies. Provides support for students' culminating projects/thesis.

EDBM 265. Thesis/Project Writing. 3 Units
Prerequisite(s): EDBM 250 or equivalent, advanced to candidacy.
Term Typically Offered: Fall, Spring

Seminar to focus on the process of completing the required culminating experience including refining the research problem, completing the literature review, finalizing and implementing the research design, and completing required university protocol (e.g., Human Subjects Review and format requirements).
Note: May be taken twice for credit.

Credit/No Credit

EDBM 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects at graduate level especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and Department Chair.
Credit/No Credit

EDBM 342. Fundamentals for the Secondary Multilingual, Multicultural Classroom. 2 Units
Prerequisite(s): Admission to Single Subject Credential Program.
Term Typically Offered: Fall, Spring

Introduces the relationship between elements of teaching, instructional organization, and classroom management to effectively teach in culturally and linguistically diverse secondary classrooms. Focus is grounded in a Social Reconstructionist approach. Emphasis includes students' development as a teacher specific, teaching strategies for culturally and linguistically diverse students, curriculum development, and theories and practices for establishing and maintaining an effective learning environment in multicultural/multilingual classrooms. Provides an introduction to E-Portfolio development, integration of technology, and familiarization of content standards.

EDBM 401. Observation and Participation in Multilingual/Multicultural Schools. 2 Units
Prerequisite(s): Admission to Teacher Preparation Program.
Term Typically Offered: Fall, Spring

Teacher candidates will observe and participate as teaching assistants in public school classrooms with high enrollments of students from culturally and linguistically diverse backgrounds.
Credit/No Credit

EDBM 565. MA Thesis/Project. 3 Units
Prerequisite(s): EDBM 250, advanced to candidacy, and completion of the Thesis/Project Petition and Advisor Reservation Form and the approval by the Department's Graduate Coordinator one semester prior to registration of this course.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's Degree.
Note: May be taken twice for credit.

Education - Counselor Education (EDC)

EDC 210. Multicultural/Ethnic Counseling. 3 Units
Term Typically Offered: Fall, Spring

Exploration of ethnic and cultural differences to develop or expand awareness, techniques, skills, theories, concepts, and to acquire information necessary to counsel effectively with clients of various ethnic/cultural groups. Students examine their own attitudes, behaviors, perceptions, and biases, and are encouraged to develop their own multicultural approach to counseling. Lecture/discussion three hours.

EDC 212. Gender Roles in Counseling. 3 Units
Term Typically Offered: Fall, Spring

An overview of the individual and societal parameters of gender roles and sexism in self-identity, sexual behavior, health, mental health, relationships, values, abuse, violence, etc. Attitudes, research, prevention, assessment and treatment methods are addressed. Meets Board of Behavioral Science requirements in human sexuality and domestic violence.

EDC 214. Dynamics of Human Development. 3 Units
Term Typically Offered: Fall, Spring

Overview of theories and research pertaining to the dynamics of human development, including cultural, biological, social, and psychological factors. Particular emphasis will be placed on the relationship of these factors to the field of counseling. Lecture three hours.

EDC 216. Counseling Theory. 3 Units
Corequisite(s): EDC 280.
Term Typically Offered: Fall, Spring

Examination of ten counseling philosophies, with emphasis on knowledge and practice. Requires the refinement of one's own counseling orientation. Designed to provide students with a foundation in the basic philosophy and practice of contemporary theories of counseling/psychotherapy. The requirements support three components of multiple measures of learning and outcomes: 1) personal growth, 2) counseling skills building utilizing multiple approaches, 3) professional development.

EDC 218. Assessment In Counseling. 3 Units
Term Typically Offered: Fall, Spring

Intended to acquaint the prospective counselor with an array of assessment instruments and appraisal techniques. Includes practical experience with tests as well as foundations of test development. Lecture three hours.

EDC 219. Group Processes in Counseling. 3 Units
Prerequisite(s): EDC 216 and EDC 280.
Term Typically Offered: Fall, Spring

Group process theory and procedures, including group counseling and guidance. Participation in a group experience is required. Lecture, discussion, three hours.
Note: May be repeated for credit.

EDC 220. The Spiritual Dimension in Counseling and Psychotherapy. 3 Units
Prerequisite(s): EDUC 155, EDUC 156, EDC 216, EDC 280; or instructor permission.
Term Typically Offered: Fall, Spring

Investigation into concerns and issues, modes, and methodologies surrounding exploration of the spiritual dimension in the counseling/therapy relationship. Experiential activities are included.

EDC 222. Clinical Stress Reduction. 3 Units
Term Typically Offered: Fall, Spring

Major concepts, theories, and approaches to effective stress reduction. Includes stress level assessment, planning and implementation of a stress reduction program. Practice of beneficial stress reduction techniques and application in clinical practice.
Note: Open to unclassified students with instructor permission.

EDC 230. Law and Ethics for Marriage, Family, and Child Counseling. 3 Units
Prerequisite(s): EDUC 155, EDUC 156, EDC 216, EDC 280 or instructor permission.
Term Typically Offered: Fall, Spring

Legal and ethical considerations in the practice of marriage, family, and child counseling. Current laws, responsibilities, restrictions, rights and privileges, licensing regulations, and ethical standards of major professional groups. Child abuse assessment and reporting requirements. Organization, administration, and management of independent practice. Lecture three hours.

EDC 231. Diagnosis and Treatment Planning. 3 Units
Prerequisite(s): EDC 216, EDC 218, EDC 280; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring

Advanced discussion of psychopathology with emphasis on differential diagnosis, use of DSM IV, and development of treatment plans. Use of mental status exam and structured interview schedules. Major diagnostic categories covered include schizophrenia, mood disorders, anxiety disorders, and personality disorders. Completion of case reports and understanding of clinical materials using diagnosis and treatment plans will be emphasized from a diversity perspective. Lecture three hours.

EDC 232. Family Violence. 3 Units
Prerequisite(s): EDC 212, EDC 230, EDC 234; or instructor permission.
Term Typically Offered: Fall, Spring

Violence in the family includes spouse abuse, child abuse, incest, and sexual abuse. Myths about these areas will be replaced by empirically-based facts. There will be an emphasis on effective treatment methods; research findings on family violence, including etiology and family patterns; overlap with alcohol and other drugs, and maintenance factors. Students will gain techniques and skills in interviewing, assessment, and counseling when violence is a presenting issue.

EDC 233. Substance Abuse and Addiction. 3 Units
Prerequisite(s): EDC 231.
Term Typically Offered: Fall, Spring

Provides an overview of substance abuse, addiction and co-occuring disorders with emphasis on psychoactive drugs including alcohol. Material will focus on the following areas: identification, evaluation, treatment and prevention of substance abuse and addiction, family, friends and coworker issues, legal and medical aspects of substance abuse, populations at risk, the role of support persons, support systems, and community resources.

EDC 234. Seminar: Marriage and Family Counseling. 3 Units
Prerequisite(s): EDC 214, EDC 216, EDC 280; classified student in the Counselor Education Program.
Corequisite(s): For MFCC Specialization: EDC 476.
Term Typically Offered: Fall, Spring

Introduction to the basic concepts and principles of family therapy. Provides and lays the foundation on which all theories/schools of family therapy are based and covers the basic theories of family therapy. Issues include evaluation of families, diagnosis in a family context, interviewing strategies, redefining problems in a family systems context, and treatment principles. Lecture three hours.
Note: May substitute PSYC 225 with consent of faculty advisor prior to registration.

EDC 238. Professional Issues in Marriage Couple and Family Counseling. 2 Units
Prerequisite(s): EDC 210, EDC 216, EDC 234, EDC 280 and acceptance into the Counselor Education Program.
Term Typically Offered: Fall, Spring

This course will provide MCFC students an advanced overview of current evidence-based practices, intervention techniques, and treatment strategies for diverse populations. This class will challenge students to conceptualize through diverse therapeutic lenses. Students will develop a deeper understanding of MFT theory and how to apply theory to practice. Topics may include domestic violence, death and dying, chemical dependency, patients with HIV or AIDS, relational trauma, the foster care system, infidelity in marriage and couples counseling, and caring for caregivers.

EDC 239. Foundations in Rehabilitation Counseling. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the field of rehabilitation counseling. Students will learn about the foundations of rehabilitation counseling through lecture, discussion, observations of community facilities, and classroom activities. Students will spend 40 hours over the course of the semester volunteering with a rehabilitation agency. Field trip(s).
Note: Open to unclassified graduate students on a space available basis.

Field trip(s) may be required.

EDC 240A. Psychological, Social and Medical Aspects of Disability, A. 3 Units
Prerequisite(s): Approval as a candidate for the MS degree in Counseling.
Term Typically Offered: Fall, Spring

Psychological, social, and medical aspects of various congenital, hereditary, and trauma-induced disabilities are studied in-depth, particularly their relationship to vocational adjustment. The etiology, treatment, prognosis, and limitations caused by various disabling medical conditions are covered as well as such factors as depression, denial and dependency as they occur or are related to these disabling conditions. Emphasis is also given to the concepts of motivation, self-concept, and personal and societal attitudes toward disability.

EDC 240B. Psychological, Social and Medical Aspects of Disability, B. 3 Units
Term Typically Offered: Fall, Spring

This is a two-part course. Both EDC 240A and EDC 240B are required. EDC 240A is not a prerequisite for 240B.

EDC 241. Developmental Stages and Art Therapy Techniques. 3 Units
Prerequisite(s): EDUC 155 and EDUC 156.
Term Typically Offered: Fall, Spring

In-depth study of normal stages of development in art with special emphasis on the developmental stages as both diagnostic indicators and aids in devising art therapy treatment. Includes hands-on experience with a variety of art therapy techniques and discussion of their applicability to different client populations. Purchase of some basic art supplies is required. Lecture, discussion, three hours.

EDC 242. Play and Art in Therapy with Children. 3 Units
Prerequisite(s): EDC 216, EDC 280, classified student in the School Counseling Specialization. Other Counselor Education students may be permitted to enroll when space is available.
Term Typically Offered: Fall, Spring

Explores the ways children use fantasy, play, and art as means for communication, growth and healing. Emphasis is placed on clinical skills, therapeutic limit setting, counseling theory and developmentally appropriate interventions. Purchase of some basic art supplies is required.

EDC 244. Trauma and Crisis Counseling. 3 Units
Term Typically Offered: Fall, Spring

This course provides opportunities for both theory and skill development by examining crisis and trauma counseling, including crisis theory; multidisciplinary responses to crises, emergencies, or disasters; cognitive, affective, behavioral, and neurological effects associated with trauma; brief, intermediate and long-term approaches; assessment strategies for clients in crisis and principles of intervention for individuals with mental or emotional disorders during times of crisis, emergency, or disaster.

EDC 250. Education Research. 3 Units
Prerequisite(s): Graduate status.
Term Typically Offered: Fall, Spring

Studies qualitative and quantitative methods in the development of reliable knowledge in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies. Classified students are encouraged to take this course early in their graduate programs.

EDC 252. Legal and Ethical Issues in Professional Counseling. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide students with basic knowledge and skills necessary to be legally and ethically competent in practice of counseling. Examines ethical and legal considerations pursuant to practice of counseling. Topics to be covered are ethics (CAMFT, AAMFT, ACA, ASCA, NCDA) related to counseling practice in private and public sectors, as well as laws regarding mandatory child and elder abuse assessment and reporting, confidentiality, privilege, liability, marriage, family, child and school ethics and law. Required for graduation with a degree in Counseling.

EDC 254. Counseling and Psychotropic Medicine. 3 Units
Prerequisite(s): EDC 231
Term Typically Offered: Fall, Spring

Provides an introduction to psychopharmacology; the biological bases of behavior; basic classifications, indications, and contraindications of commonly prescribed psychopharmacological medications; and effective approaches to collaborating with clients, their families and other professionals so that appropriate referrals can be made for medication evaluations and so that the side effects of those medications can be identified. Meets the BBS licensure requirements for Professional Clinical Counselors and Marriage and Family Therapists.

EDC 260. Career Development. 3 Units
Term Typically Offered: Fall, Spring

Provides a basic introduction to career development and career counseling. Identification and assessment of issues common in career counseling settings are examined. Group and individual models of career development and counseling in schools, community agencies or private industry are also investigated and discussed. Lecture three hours.

EDC 261. Seminar in Counseling: Job Placement. 3 Units
Term Typically Offered: Fall, Spring

Analyzes and practice of job-seeking skills, employer information base, and job placement of the handicapped.

EDC 262. Career Counseling Process. 3 Units
Prerequisite(s): EDC 260; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring

On-going learning of the processes needed to deliver career counseling services to a variety of clientele. Students will extend their theoretical knowledge base and will more clearly focus on the relationship between a person's life and the process of career development. Elements to be studied in more depth include career development theory, assessment techniques and strategies, goal setting, decision making, and integration of multicultural aspects and strategies. A practical experience in administering and interpreting selected test instruments extensively used in career counseling will be included. Lecture three hours; practical experience one hour.

EDC 263. Case Practices in Rehabilitation Counseling. 3 Units
Prerequisite(s): Classification as a graduate student in the M.S. Counseling program or instructor approval.
Term Typically Offered: Fall, Spring

This course provides an in -depth review and study of the rehabilitation process. This course will address effective rehabilitation counseling interventions and documentation. This course is oriented to the methods used in obtaining relevant self-reported, measured, or demonstrated client information that will have direct impact on the individual¿s rehabilitation process. Students will formulate individual rehabilitation plans as a joint client-counselor process. Rehabilitation case records will be used to foster understanding of the client and their problems.

EDC 264. Seminar in Counseling: Career Systems Development. 3 Units
Prerequisite(s): EDC 260; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring

Specific emphasis is at the implementation level, with students learning the necessary skills for implementing, maintaining, and stimulating career development in schools, community agencies or private industry. Lecture three hours.

EDC 266. Seminar in Counseling: Career Program Development. 3 Units
Prerequisite(s): EDC 260; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring

Specific emphasis is at the program development level, with students learning the necessary components for developing a career counseling program in schools, community agencies, or private industry. Lecture three hours.

EDC 268. Career and Job Search. 3 Units
Prerequisite(s): EDC 260 or instructor permission.
Term Typically Offered: Fall, Spring

Work is undergoing change with the advent of new technologies, an increasingly diverse workforce, and corporate restructuring. These conditions have led to more frequent occupational shifts and the loss of previously secure jobs, self-reliance replacing loyalty in relations between employers and employees, and fragmented careers becoming more common as family responsibilities and work opportunities became increasingly interwoven. Examines traditional and emerging approaches for assisting clients in a changing and evolving job market.

EDC 270. Organization and Administration of School Counseling Programs. 3 Units
Term Typically Offered: Fall, Spring

Principles and practices necessary to plan, initiate, administer, and evaluate school counseling programs, including related laws. Lecture, discussion three hours.

EDC 272. Counseling Children and Youth. 3 Units
Prerequisite(s): EDC 216, EDC 280, classified student in Counselor Education Program. School specialization: EDC 242.
Corequisite(s): School Counseling Specialization: EDC 475.
Term Typically Offered: Fall, Spring

Provides students with a theoretical foundation and working knowledge of contemporary issues and interventions for children and youth. A variety of presenting problems and treatment strategies are explored.

EDC 274. Guidance and Consultation in School Counseling. 3 Units
Prerequisite(s): EDC 216, EDC 280, EDC 270; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring

Presents a variety of topics and strategies related to the school counselor's role in implementing guidance curricula in the school. Explores models of consultation, change strategies, human relations skills, and ethical considerations. Emphasis is on the developmental nature of school counseling programming, the need for school counseling to support the larger instructional mission of the school, the role of the counselor as a change agent and the multiplcity of skills needed for successful guidance and consultation.

EDC 280. Practicum in Communication. 2 Units
Corequisite(s): EDC 216
Term Typically Offered: Fall, Spring

Supervised practice in the basic styles of communication, verbal and nonverbal, with additional focus on the particular skills of selected theories.
Note: Recommended to be taken within the first 6 units of study in the Counselor Education Program

Credit/No Credit

EDC 282. Practicum in Group Counseling. 2 Units
Prerequisite(s): EDC 219; classified student in the Counselor Education Program.
Term Typically Offered: Fall, Spring

Supervised practice in leadership of group counseling. Lecture one hour; laboratory three hours.
Credit/No Credit

EDC 294. Cooperative Education Experience. 3 Units
Prerequisite(s): Open only to upper division and graduate students; consent of Department Chair.
Term Typically Offered: Fall, Spring

Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in the student's major field of study and academic credit. Students receive supervised employment in school districts, state and community agencies, companies, and other appropriate settings. Requires attendance at weekly meetings, preparation of application packet, completion of field study assignment, and a written final report.
Note: Units may not be used to meet course work requirements. May be repeated once for credit.

Credit/No Credit

EDC 296P. Current Issues in Counseling: Meditation. 1 Unit
Term Typically Offered: Fall, Spring

An introductory experimental class in meditation which provides a basic foundation of basic meditative theories, the experience of meditative practices, and a basic knowledge of meditative techniques of benefit both personally and with clients. Research has demonstrated that meditation is helpful in a number of stress-related conditions and recent research indicates it is often more effective than psychotherapy in treatment of some problems.
Note: Instructor approval required. May be taken twice for credit.

Credit/No Credit

EDC 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects at graduate level designed especially for students capable of independent study.
Note: Admission by approval of the instructor with whom the student will be working directly and the Department Chair.

Credit/No Credit

EDC 475. Practicum In Counseling. 3 Units
Prerequisite(s): Prerequisites for all specializations: EDC 210, EDC 214, EDC 216, EDC 280. Additional prerequisites by specialization: Career - EDC 212+, EDC 218, EDC 219+, EDC 260, EDC 262+; Community - EDC 201, EDC 212+, EDC 218, EDC 219; MFCC - EDC 212, EDC 218+, EDC 219, EDC 234, EDC 252+, EDC 476; School - EDC 252+, EDC 270.
Corequisite(s): By specialization: School - EDC 272.
Term Typically Offered: Fall, Spring

Supervised counseling practice in agency and/or school settings. Emphasis on application of counseling theories and the integration of one's own counseling philosophy into practical applications. Basic requirements: 100 clock hours with at least 40 client contact hours, 1 hour per week of individual/triadic supervision, and one and half hours per week of group supervision.
Note: Department petition is required the semester prior to enrollment.

Credit/No Credit

EDC 476. Practicum in Marriage, Family and Child Counseling. 1 Unit
Prerequisite(s): EDC 216, EDC 280, classified student in the Counselor Education Program.
Corequisite(s): EDC 234.
Term Typically Offered: Fall, Spring

Structured observation and supervised practice in marriage, family, and child counseling. Application of material learned in EDC 234. Emphasis on establishing relationships and interviewing techniques with multiple clients, assessment techniques, setting goals, and learning to think systemically. Laboratory two hours.
Credit/No Credit

EDC 480. Field Study In Counseling. 2 - 6 Units
Prerequisite(s): EDC 475 and all of its prerequisities. Additional prerequisites by specialization: MFCC - completion of required courses except culminating requirement.
Corequisite(s): By specialization: School - EDC 272.
Term Typically Offered: Fall, Spring

Supervised counseling and field experiences arranged in community-based settings such schools, colleges and/or agencies. One hundred clock hours of experience required for each unit of credit for a total of six hundred clock hours (or 6 units). Weekly supervision is provided throughout the field experience: one hour per week of individual/triadic supervision and one and half hours per week of group supervision.
Note: Department petition and approval of faculty advisor is required the semester prior to enrollment.

Credit/No Credit

EDC 500. Master's Culminating Experience. 1 Unit
Prerequisite(s): Advanced to candidacy for the master's degree and enrollment in the last semester of course work; Classified student in the Counselor Education Program; Department petition required the semester prior to enrollment.
Term Typically Offered: Fall, Spring

Focuses on reviewing and synthesizing of student's knowledge of theory, and practice. A review and examination of previous learning will be included.
Note: Taken in preparation for the comprehensive examination.

Credit/No Credit

EDC 551. Master's Project - Counseling - Plan B. 3 Units
Prerequisite(s): Advanced to candidacy. All course requirements in Counselor Education and EDC 505.
Term Typically Offered: Fall, Spring

Completion of a project approved for the Master's degree.
Note: Department petition is required the semester prior to enrollment.

Education - Curriculum and Instruction (EDCI)

EDCI 227. Transforming Curriculum in K-12. 3 Units
Term Typically Offered: Fall, Spring

This course will explore the ways in which K-12 schools are influenced by the economic, social and political environment. It will examine how educators can respond to the conditions and issues that exist, and in particular, how the individual teacher's study and practice is shaped by and can transform public education.

EDCI 251. Power in Education. 3 Units
Term Typically Offered: Fall, Spring

Advanced study of critical pedagogy as a vision for shifting the power in education through a consideration of the sociocultural and sociopolitical issues in schooling. Course readings focus on the experiences of students in schools; school organization; and relationships between communities and schools. The emphasis is on American public school systems through an exploration of educational inequities, from theoretical and practical viewpoints.

EDCI 252A. Inquiry & Practice in Education. 3 Units
Corequisite(s): EDBM 250 and EDCI 252B.
Term Typically Offered: Fall, Spring

Students will develop a research proposal for classroom-based inquiry designed to address the needs of a specific classroom context. students will determine a mixed methods research design and identify methods for data collection and analysis. While enrolled in this course, and EDCI 252B, students must have IRB approval for data collection in K-12 classrooms.
Note: Concurrent enrollment in EDBM 250 and EDCI 252B is required; Open to Graduate MA students only.

EDCI 252B. Inquiry & Practice Field Experience in Education. 3 Units
Corequisite(s): EDCI 252A and EDBM 250
Term Typically Offered: Fall, Spring

Requires concurrent enrollment in EDCI 252A seminar. This course begins the inquiry process by engaging in the field. Candidates will choose an educational context in which to plan the focused inquiry. Students must have IRB approval for conducting this research and have clearance that meets the requirements of participation in the educational setting (fingerprints, background check, etc.). Engagement in a student's chosen setting must be approved and proof of approval must be provided before engaging in the setting.
Note: Concurrent enrollment in EDCI 252A is required.

Credit/No Credit

EDCI 253A. Action & Analysis in Education. 3 Units
Prerequisite(s): EDBM 250, EDCI 252A, EDCI 252B.
Corequisite(s): 253B.
Term Typically Offered: Fall, Spring

Candidates will continue participating in the field experience to conduct the focused inquiry. Students must have IRB approval for conducting this research and have clearance that meets the requirements of participation in the educational setting (fingerprints, background check, etc.). Engagement in a student's chosen setting must be approved and proof of approval must be provided before engaging in the setting.
Note: Concurrent enrollment in EDCI 253B is required. Open to Graduate MA students only.

EDCI 253B. Action & Analysis Field Experience in Education. 3 Units
Prerequisite(s): EDBM 250, EDCI 252A, EDCI 252B
Corequisite(s): 253A
Term Typically Offered: Fall, Spring

Requires concurrent enrollment in EDCI 253A seminar. Candidates will continue participating in the field experience to conduct the focused inquiry. Students must have IRB approval for conducting this research and have clearance that meets the requirements of participation in the educational setting (fingerprints, background check, etc.). Engagement in a student's chosen setting must be approved and proof of approval must be provided before engaging in the setting.
Note: Open to Graduate MA students only.

EDCI 505. Culminating Experience: Curriculum and Instruction. 3 Units
Prerequisite(s): EDCI 252A/B. Advanced to candidacy and permission of his/her faculty advisor and the department chair one full semester prior to registration.
Term Typically Offered: Fall, Spring

This is the culmination of a series of methods courses toward completion of the MA in Curriculum and Instruction. In this course, MA students will complete the process they began in EDCI 252A and 253A with a culminating experience that consists of a written exam and oral defense.
Credit/No Credit

Education - Graduate Professional Studies in Education (EDGR)

EDGR 210. Contemporary Issues in Education: Curriculum and Social Emotional Well Being of Students. 3 Units
Term Typically Offered: Fall, Spring

This course examines contemporary issues in education, with special attention to the social, cultural, political, economic, and institutional dynamics of educational processes and the impacts on students, schools, and communities. Fulfilling the mission of the Masters programs and the College of Education vision, the course focuses on preparing students to become social change agents in schools and communities. Topics covered will fit into the two threads of (a) curriculum and (b) social emotional well-being of students.

EDGR 211. Contemporary Issues in Education: Context of Schooling and Leadership. 3 Units
Term Typically Offered: Fall, Spring

This course examines contemporary issues in education, with special attention to the social, cultural, political, economic, and institutional dynamics of educational processes and the impacts on students, schools, and communities. Fulfilling the mission of the Masters programs and the College of Education vision, the course focuses on preparing students to become social change agents in schools and communities. Topics covered will fit into the two threads of (a) context of schooling and (b) leadership.

EDGR 220. Issues in New Literacies throughout the Lifespan. 3 Units
Term Typically Offered: Fall, Spring

This course examines contemporary issues in literacy. The course introduces students to pedagogies and politics of new literacies within a variety of contexts: academic, new literacy studies, technology literacy, cultural, family, community, and workplace literacy. From a frame of literacy/illiteracy, students examine its connections with economic, political, social, occupational, education, governmental, and cultural change. Students will study how literacy programs are organized and implemented, examine research on the rationale for literacy, including the connection between literacy and healthy, livelihoods, empowerment, community development and cognitive skills.

EDGR 260. Writing and Research Across the Disciplines. 3 Units
Prerequisite(s): Admission to graduate program in the College of Education or instructor permission
Term Typically Offered: Fall, Spring

Orientation to graduate study design to introduce students to research within their field of study and across disciplines in the College of Education. Overview of qualitative and quantative methods and basic statistical concepts. Focus on writing to communicate evidence-based knowledge in a professional manner using APA style. Includes research presentations, active discussion, critical reading, and analytical writing with some activities.
Note: This course serves as a foundation for further study and must be taken prior to 250. This course satisfies the GWI requirement.

EDGR 270. Makerspaces. 3 Units
Term Typically Offered: Fall, Spring, Summer

This course examines makerspaces as locales, which are central to 'maker' culture. Students will explore the role of makerspaces in local, national and international communities. Specifically, students will conduct critical analysis of the concepts surrounding the rise of 'third spaces' in American society to understand the proliferation of makerspaces throughout the United States. Students will also investigate the integration of makerspaces into schooling and vocational practices as they explore ways that makerspaces function to develop 21st century learning and innovation.

EDGR 272. Project-Based Learning and Assessment for Maker Educators. 3 Units
Prerequisite(s): EDGR 270, EDGR 273
Corequisite(s): Practicuum
Term Typically Offered: Spring, Summer

In this hybrid course that includes equal parts theory and practical application students will experience what it is to both complete skill and performance based tasks using a Makers approach and also assess those same tasks through the lens of 21st Century Skills: communication, collaboration, critical thinking, problem solving, creativity and innovation.

EDGR 273. Maker Theory and Practice. 3 Units
Prerequisite(s): EDGR 270.
Term Typically Offered: Fall, Spring, Summer

This course is an overview of theoretical frameworks that undergird making, the maker movement, and Maker Education. We will examine the ideas and practices associated with educational reforms that emphasize do-it-yourself (DIY) learning and 21st century skill development in high-tech and low-tech environments. Students will critically investigate the connections between theoretical perspectives and applied practices including STEM/STEAM Initiatives, design thinking, critical making, project-based learning, and universal design for learning. Theories that students will explore include: constructivism, constructionism, culturally sustaining pedagogy.

EDGR 274. Practicum for Maker Educators. 3 Units
Term Typically Offered: Spring, Summer

Supervised maker practice in community and/or school setting to be approved by instructor. Practicum emphasizes the function of maker theories in the development and implementation of maker programming. Basic requirements: 200 clock hours with at least 100 hours devoted to practical application of theoretical frameworks in programming and assessment, two hours per week of skill building with maker tools, and one hour bi-weekly of mentoring with practicum supervisor. Prereqisite: EDGR 270, EDGR 272, and EDGR 273.
Credit/No Credit

EDGR 287A. Seminar in Culminating Experience Exploration and Design. 1 Unit
Term Typically Offered: Fall only

Explore and identify potential Culminating Experience project topics in instructional design and/or educational technology trends and issues through surveys of published research, discussions, and presentations with peers and professionals. Compare and contrast existing literature and research, identify trends, recognize real-world best practices, and explore underlying factors contributing or relating to your Culminating Experience topic of interest.
Credit/No Credit

EDGR 287B. Seminar in Culminating Experience Development and Proposal. 2 Units
Prerequisite(s): EDGR 287A
Term Typically Offered: Spring only

Discuss, develop and propose a Culminating Experience project in instructional design and/or educational technology based on prior exploration and identification of topics and issues. Develop program ePortfolio.
Credit/No Credit

Education - Language and Literacy (EDLL)

EDLL 200. Practicum in Decoding and Fluency: Assessment and Instruction. 3 Units
Prerequisite(s): Graduate standing, admission to the program, and current preservice reading course or equivalent. Paired: EDLL 201
Term Typically Offered: Fall, Spring

Research, practice, and issues related to decoding, spelling, and fluency instruction from preschool through adult with applications to classroom teaching. Includes a practicum for assessing and tutoring students having difficulty in decoding.

EDLL 201. Practicum in Comprehension: Assessment and Instruction. 3 Units
Corequisite(s): EDLL 200 Paired: EDLL 200
Term Typically Offered: Fall, Spring

Research, practice and issues related to comprehension such as vocabulary, background knowledge, and reading strategies from preschool through adult with applications for classroom teaching. Topics include motivation, metacognition, and strategic reading. Analysis of formal and informal assessment measures with a focus on utility, reliability, and validity. In the practicum portion, teachers assess and tutor students with reading difficulties.

EDLL 202. Language and Literacy Development in Multicultural Settings. 3 Units
Prerequisite(s): Admissions into the M.A. Program in Language and Literacy. Permission from the department with graduate standing.
Term Typically Offered: Fall, Spring

Research and theory related to the nature of culture, first and second language acquisition, schooling and literacy development. A specific focus on English Learners will be taken. Implications of the research and theory for working with pre-K children through adults in group contexts.

EDLL 203. Teaching and Assessing Writing in the Pre-K through 12 Classroom. 3 Units
Term Typically Offered: Spring, Summer

Writing assessment and instruction in pre-K through 12 classrooms and other settings is the dominant focus. Topics include research and theoretical models of composition, classroom-based instructional approaches to process writing instruction, writing assessment and writing strategies to improve reading comprehension and writing instruction in a social context.

EDLL 205. Psychology and Sociology of Literacy Instruction. 3 Units
Term Typically Offered: Fall, Spring

This course examines contemporary and historical issues in literacy, including the pedagogies and politics within various contexts:academic, new literacy studies, technology literacy, cultural, family, community, and workplace literacy. Incorporates technological literacies, family, community, and workplace literacies, cultural literacies, and multiliteracies. A major focus is the investigation and understanding of the reading process, various theories that attempt to explain the process, and the implications of those theories for language and literacy development. A literature review will be initiated.

EDLL 206. Leadership In Literacy. 3 Units
Prerequisite(s): Admissions into the M.A. Program in Language and Literacy. Permission from the department with graduate standing.
Term Typically Offered: Fall, Spring

Students will examine a school¿s reading and language arts practices in context and write a response. They will engage in field experiences and applying them to their theoretical understandings about contemporary schooling policies. Provides candidates with opportunities to incorporate understandings about literacy and the context of literacy cultures to field actions related to their professional development. Students will apply strategies useful in assessing, evaluating, and making recommendations for sustaining or improving literacy teaching, learning, and assessment at a school.

EDLL 207. Advanced Practicum in Reading Difficulties: Assessment and Intervention. 3 Units
Term Typically Offered: Fall, Spring

Evaluation and use of materials and techniques for assessing and teaching decoding, spelling, and comprehension across ages, languages, developmental levels, and diverse backgrounds. Examination of models of reading disability and of intervention programs for students and adults with varying degrees of disability. Application through assessment, instruction, and compilation of a case study of a student or adult with reading and/or spelling difficulties. Permission of instructor required for those wishing to take the course as an elective.

EDLL 209. Literature for the Diverse Pre- K through 12 Classroom: Issues, Models and Strategies. 3 Units
Term Typically Offered: Fall, Spring, Summer

Analyze state and national issues related to the use of young adult literature in schools. Evaluate models and strategies for employing quality literature (fiction and non-fiction) effectively in the Pre-K through 12 multicultural classroom. Building upon research and genre overview, each participant will develop instructional materials and strategies such as booklists, storytelling, textsets, read-alouds, and web-based literature activities for students and support materials for parents.

EDLL 250. Education Research. 3 Units
Term Typically Offered: Fall, Spring, Summer

Studies qualitative and quantitative research methods in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies.

EDLL 503. Culminating Experience: Language and Literacy. 3 Units
Prerequisite(s): EDLL 250; Advanced to candidacy and permission of his/her faculty advisor and the department chair one full semester prior to registration.
Term Typically Offered: Fall, Spring, Summer

Completion of a thesis or project approved for the Master's degree.

Education - Multiple Subject (EDMS)

EDMS 213. Strategies for Inclusive Classrooms: Multiple Subject. 3 Units
Prerequisite(s): Admission into a teacher preparation program.
Term Typically Offered: Fall, Spring

This course provides multiple subject and special education candidates with dispositions, knowledge, and skills needed to serve students with disabilities in general education classrooms. Strategies specific to students in their least restrictive environment will be covered emphasizing Universal Design for Learning, Multi-Tiered Systems of Support, social-emotional learning, co-teaching, differentiated instruction, roles and responsibilities of special/general education teachers, peer mediated learning strategies, modifications of standards and learning outcomes for students with disabilities, and assistive technology (low and high tech adaptations).
Cross listed: EDSS 282/EDSP 293/EDMS 213

EDMS 232. Assessment Center Laboratory for Multiple Subject Candidates. 2 Units
Corequisite(s): EDMS 430B or EDMS 434B or EDSP 420B.
Term Typically Offered: Fall, Spring

Individualized support to guide multiple subject candidates through the process of completing and submitting the culminating Teaching Performance Assessment (TPA) mandated by the program's accrediting body and completion of their electronic program portfolio. The signature assignments, formative TPA assessments and summative TPA Teaching Event represent an electronic portfolio embedded throughout the program. In addition, the candidates will complete an annotated bibliography for readings across the credential program.
Credit/No Credit

EDMS 234A. Foundations of Teaching in a Diverse K-8 Classroom - A. 1 Unit
Prerequisite(s): Admission to the Multiple Subject Teacher Credential Program or the Master of Arts in Teaching with Multiple Subject Teaching Credential Program.
Corequisite(s): EDMS 234B
Term Typically Offered: Fall, Spring

Introduction to critical analysis of purpose and process of elementary level public schooling in the U.S. Examination of sociopolitical contexts of public schools and society; educational theories, philosophies, notions of culture and social justice, community and educational practice. Engagement with sociocultural, historical, and philosophical foundations of education, multicultural education, learning theories, and theories of cognitive and social development. Candidates examine own biases and work to mitigate negative impact on student learning. This lecture course paired with breakout discussion (EDMS 234B).

EDMS 234B. Foundations of Teaching in a Diverse K-8 classroom - B. 2 Units
Prerequisite(s): Admission to the Multiple Subject Teacher Credential Program or the MA in Teaching with Multiple Subject Credential Program.
Corequisite(s): EDMS 234A
Term Typically Offered: Fall, Spring

Introduction to critical analysis of purpose and process of elementary level public schooling in the U.S. Examination of sociopolitical contexts of public schools and society; educational theories, philosophies, notions of culture and social justice, community and educational practice. Engagement with sociocultural, historical, and philosophical foundations of education, multicultural education, learning theories, and theories of cognitive and social development. Candidates examine own biases and work to mitigate negative impact on student learning. This discussion course paired with lecture (EDMS 234A).

EDMS 235A. Advanced Principles of Teaching in a Diverse K-8 Classroom - A. 1 Unit
Corequisite(s): EDMS 235B
Term Typically Offered: Fall, Spring

This course is the lecture portion of a two-course series. It deepens candidates' knowledge of theories and practices necessary to execute the Plan-Instruct-Assess-Reflect cycle of mindful teaching for diverse students. Candidates will expand their understandings of how theoretical frameworks for teaching (learning theory, human development theory, multicultural education, inclusive and differentiated education, assessment frameworks, and models of teaching and curriculum planning) are applied in varied public school classrooms and contexts.

EDMS 235B. Advanced Principles of Teaching in a Diverse K-8 Classroom - B. 1 Unit
Corequisite(s): EDMS 235A
Term Typically Offered: Fall, Spring

This course is the discussion portion in a two-course series. In this course, candidates translate theories, concepts and frameworks presented in Advanced Principles of Teaching A into strategies and practices for instruction, assessment, and curriculum development in the K-8 classroom. Candidates will create activities, develop lesson and unit plans that integrate and apply various theories and frameworks for instruction. Candidates will design, lead and engage in simulations, peer teaching, and workshops.

EDMS 241. Action Research in Multicultural Settings. 5 Units
Prerequisite(s): Admission to the Master of Arts in Teaching with Multiple/Single Subject Teaching Credential program; Completion of EDMS 434B or EDMS 474B.
Term Typically Offered: Summer only

This course focuses on an introduction to Action Research in multicultural educational settings. It includes an overview of various research paradigms, with emphasis on Action Research and Teacher Action Research. Additional topics covered in this course include: critical pedagogy, forms of multicultural education, and issues related to educational equity and providing access of opportunity to students from underserved populations.
Cross listed: EDSS 241

EDMS 242. Critical Perspectives in Classroom Inquiry. 3 Units
Prerequisite(s): EDMS 241 or EDSS 241.
Term Typically Offered: Fall only

This course is part of the Master of Arts in Teaching with Multiple Subject Teaching Credential Program and builds on the knowledge that students gain in EDMS/EDSS 241. During this course students will complete a literature review of research related to their critical inquiry question. Students will additionally explore the historical and current trends in critical classroom inquiry and consider the implications for schools in diverse settings. Further course activities include developing a Classroom Inquiry Project and submitting the IRB.
Cross listed: EDSS 242.

EDMS 243. Data Collection for Action Research in Multicultural Settings. 3 Units
Prerequisite(s): EDMS 241 or EDSS 241.
Term Typically Offered: Fall only

This course builds students understanding of appropriate types and uses of data in Action Research in multicultural education settings. During this course students will be presented with the sociopolitical contexts for data collection and its subsequent use in educational policy. Students will apply theoretical knowledge by practicing to collect and initially interpreting multiple types of data. These experiences will lay the groundwork for students¿ development and implementation of the data collection plan for their own Classroom Inquiry Projects.
Cross listed: EDSS 243.

EDMS 244. Sociocultural & Sociopolitical Contexts of Data Analysis. 3 Units
Prerequisite(s): EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243
Term Typically Offered: Spring only

This course builds students¿ understanding of appropriate methods of data analysis in Teacher Action Research in multicultural education settings. Students will learn how data analysis has been used to interpret research in diverse school settings. Students will apply theoretical knowledge by analyzing multiple types of data sets form both qualitative and quantitative sources. These experiences will lay the groundwork for students¿ implementation of analysis of their own data for their Action Research inquiry projects.
Cross listed: EDSS 244

EDMS 272. Methods for Teaching Second Language Learners, Multiple Subject (ELD and SDAIE). 3 Units
Prerequisite(s): EDUC 170
Term Typically Offered: Fall, Spring

Focus on teaching candidates the methods, techniques and strategies needed to make content accessible for second language learners. Candidates will learn to use the state ELD standards to create ELD lessons and SDAIE lessons within multicultural framework. Candidates will also learn how to interpret and implement formative and summative assessments. Lecture, demonstration, modeling, group work, discussions, field experience.

EDMS 299. Special Problems: Multiple Subject. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects for Multiple Subject credential candidates at graduate/credential level especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and the Department Chair.
Note: This course may be repeated for up to 9 units of credit.

Credit/No Credit

EDMS 300. Teaching Performance Assessment-Multiple Subjects-Mathematics. 1 Unit
Corequisite(s): EDMS 434B or EDMS 430B or EDSP 420B
Term Typically Offered: Fall, Spring

Candidates in the Teacher Preparation Program must complete the Teaching Event for the Performance Assessment for California Teachers. The Teaching Event requires candidates to plan and teach an instructional sequence in their student teaching placement. They must also assess student learning during this lesson sequence and submit a videotape with material recorded during the lesson sequence. The Teaching Event is a summative assessment and one of several requirements that must be completed in order to receive a recommendation for a teaching credential.
Credit/No Credit

EDMS 310C. Pedagogy C: Classroom Instruction and Positive Management for Diverse Classrooms. 1 Unit
Prerequisite(s): Admission to Multiple Subject Credential Program. Successful completion of EDMS 310B.
Term Typically Offered: Fall, Spring

Reinforces the cycle of teaching: lesson planning, implementing, reflection and application at a deeper developmental level. Intensive support for classroom management and discipline; disruptive behaviors; problem-solving communication with district administrators, parents at community level as child advocates. Emphasis on differentiating instruction to individual needs of diverse learners. Scaffolding to support growth and developmental stages of the learning-to-teach process and professional responsibilities. Infusion of e-portfolio development and the integration of technology.
Credit/No Credit

EDMS 314. Mathematics Curriculum and Instruction for the Diverse K-8 Classroom. 3 Units
Term Typically Offered: Fall, Spring

Focusing on a 'meaning approach' to mathematics which prepares candidates to teach mathematics content standards for California public schools to all students, including English Learners and special needs; to use analytical and critical thinking skills in mathematics; and to infuse mathematics topics, themes, and concepts into other subject areas. Discussion, field visits, microteaching, demonstrations, presentations, and technological applications for mathematics will be included.

EDMS 315. History-Social Science Curriculum and Instruction for the Diverse K-8 Classroom. 3 Units
Term Typically Offered: Fall, Spring

Prepares teacher candidates in multiple subjects to teach the history-social science content standards for California public schools to all students, including English Learners and special needs; to use analytical and critical thinking skills in history and social science; and to integrate history-social science topics, themes, and concepts with other subject areas. Pedagogical topics include the use of timelines, maps, artifacts, case studies, simulations, literature, art, multiple perspectives, SDAIE, cooperative projects, and research activities.

EDMS 316. Science Curriculum and Instruction for the Diverse K-8 Classroom. 3 Units
Term Typically Offered: Fall, Spring

Knowledge of basic principles and strategies related to science education, incorporating an expanded treatment of science pedagogy, manipulatives, technological supports, accommodations, adaptive instructional techniques, and other strategies specially suited to the instruction of diverse student populations.

EDMS 317. Visual and Performing Arts Methods for the Diverse K-8 Classroom. 1 Unit
Prerequisite(s): Admission to Multiple Subject Teacher Credential Program.
Term Typically Offered: Fall, Spring

Prepares candidates in multiple subjects to teach the visual and performing arts content standards for California public schools to all students, including English Learners, and special needs students, through interrelated activities with involvement in specific teaching strategies which are effective in achieving the goals of developing artistic perception and creative expression, understanding the cultural and historical origins of the arts, making informed judgments about the arts, and understanding the arts connections and relationships across curriculum.

EDMS 319A. Language and Literacy I for the Diverse K-8 Classroom. 3 Units
Term Typically Offered: Fall, Spring

Develops understandings, attitudes, and competencies needed for effective instruction of language and literacy for mainstream populations, English Learners, and students with special needs. Instructional strategies for teaching concepts about print, phonemic awareness, phonics, fluency, vocabulary, and comprehension of narrative/expository texts. Instructional planning aligned with current content standards, and other content and preparation standards as appropriate. Assessment strategies that inform planning and instruction. Special emphasis on literacy instruction in bilingual and multilingual settings. Lecture and discussion, includes a field experience component.

EDMS 319B. Language and Literacy II for the Diverse K-8 Classroom. 2 Units
Prerequisite(s): EDMS 319A
Term Typically Offered: Fall, Spring

Extends understandings, attitudes, and competencies needed for effective instruction of language and literacy for mainstream populations, English Learners, and students with special needs. Instructional strategies for teaching narrative/expository text and spelling. Instructional planning aligned with current content standards, and other content and preparation standards as appropriate. Assessment strategies that inform planning and instruction. Special emphasis on literacy instruction in bilingual and multilingual settings. Lecture and discussion, includes a field experience component.

EDMS 330A. Educational Technology Lab I. 1 Unit
Prerequisite(s): Admission to Multiple Subject Credential Program.
Term Typically Offered: Fall only

Educational technology lab course will prepare the candidates use technology for three areas: coursework in the teaching credential program, enhancing teaching and learning and eportfolio development. Students are introduced to an array of digital technologies for teaching relevant for K-12 student learning. Among the topics include digital literacy, copyright, fair use, Internet safety, Creative Commons, presentation tools, ISTE standards, technology and Teaching Performance Expectations, presentation tools, interactive whiteboards, and many others. The focus is on students learning about technology use in teaching and learning in K-12 schools. Candidates are prepared to use technology in the Teaching Credential Program and for the development of an electronic portfolio.
Credit/No Credit

EDMS 330B. Educational Technology Lab II. 1 Unit
Prerequisite(s): EDMS 330A
Term Typically Offered: Spring only

In this course, candidates will learn to create, use, and manage appropriate and relevant educational technological processes and resources. The candidates will deepen their knowledge of technology in the K-12 public school environment and apply their understanding to improve student engagement and student learning outcomes. The candidates will also learn to use technology associated with the Teaching Credential Program and finalize their electronic portfolio for the program.
Credit/No Credit

EDMS 334C. Fundamentals of Teaching in a Diverse K-8 Classroom. 2 Units
Prerequisite(s): Admission into the Multiple Subject Credential Program or the MA in Teaching with Multiple Subject Teaching Credential program.
Term Typically Offered: Fall, Spring

This course introduces the relationship between elements of teaching and instructional organization to effectively teach in culturally and linguistically diverse and inclusive elementary classrooms through the use of backwards design, Universal Design for Learning, and differentiated instruction. The focus will be grounded in a Social Justice/ Multicultural paradigm. Emphasis will include students' development as a teacher, curriculum development, long and short-term planning, and specific theories for instructional practice.

EDMS 401. Observation and Participation in Elementary Schools. 2 Units
Prerequisite(s): Admission to Teacher Preparation Program
Term Typically Offered: Fall, Spring

Observations in classes in several situations and grade levels; service as an assistant in at least one classroom. Visits to community agencies which serve the school population.
Credit/No Credit

EDMS 420A. Field Experience: Multiple Subject. 4 Units
Prerequisite(s): Admission to Teacher Preparation Program.
Term Typically Offered: Fall, Spring

Two semesters of student teaching multiple subjects in public school classrooms providing experiences at two grade levels and with different cultural groups. Intensive, realistic experiences with continuous and varied responsibilities. This first semester student teaching with integrated methods course work requires half-day participation. Experiences in classroom teaching and participation in many of the out-of-class duties of a teacher.
Credit/No Credit

EDMS 420B. Student Teaching: Multiple Subject. 10 Units
Prerequisite(s): Admission to Teacher Preparation Program.
Term Typically Offered: Fall, Spring

Second semester student teaching with integrated methods course work requires full-day participation of the student. Emphasis on classroom teaching and further experience with community services.
Credit/No Credit

EDMS 430A. Student Teaching I Basic. 5 Units
Prerequisite(s): Admission to Teacher Preparation Program
Term Typically Offered: Fall, Spring

One semester of teaching multiple subjects in a public school setting with diverse learners. This first semester of student teaching is completed concurrently with integrated coursework.
Credit/No Credit

EDMS 430B. Student Teaching II: Basic. 7 Units
Prerequisite(s): Admission to Teacher Preparation Program
Term Typically Offered: Fall, Spring

One semester of teaching multiple subjects in a public school setting with diverse learners. This second semester of student teaching is completed concurrently with integrated coursework and focuses primarily on planning, implementing, and assessing instruction for whole classes of students.
Credit/No Credit

EDMS 434A. Field Experience for Elementary Teachers. 6 Units
Prerequisite(s): Admission to the Multiple Subject Credential program
Term Typically Offered: Fall, Spring

Candidates complete field experience in public school classrooms concurrently with integrated coursework. Field experiences focus primarily on observing model lessons and activities and on collaborative planning, implementing and assessing instruction for small groups of students.
Credit/No Credit

EDMS 434B. Student Teaching for Elementary Teachers. 8 Units
Prerequisite(s): EDMS 434A
Term Typically Offered: Fall, Spring

One semester of teaching multiple subjects in a public school setting with diverse learners. This final semester of student teaching is completed concurrently with integrated coursework and focuses primarily on planning, implementing and assessing instruction for whole classes of students.
Credit/No Credit

EDMS 500. Classroom Inquiry Project: Culminating Experience. 3 Units
Prerequisite(s): EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243.
Term Typically Offered: Spring only

Course establishes that master candidates have acquired the essential knowledge and skills covered in each of the courses leading to the Master of Arts in Teaching with Multiple Subject Teaching Credential. Proficiency is demonstrated through a comprehensive examination of essential content of each course in the master's degree program. Candidates will produce a written portfolio, accompanying executive summary, and oral presentation of the body of work completed during the Master of Arts in Teaching with Multiple Subject Teaching Credential Program.
Cross listed: EDSS 500

Credit/No Credit

Education - Single Subject (EDSS)

EDSS 241. Action Research in Multicultural Settings. 5 Units
Prerequisite(s): Admission to the Master of Arts in Teaching with Multiple/Single Subject Teaching Credential program; Completion of EDMS 434B or EDMS 474B.
Term Typically Offered: Summer only

This course focuses on an introduction to Action Research in multicultural educational settings. It includes an overview of various research paradigms, with emphasis on Action Research and Teacher Action Research. Additional topics covered in this course include: critical pedagogy, forms of multicultural education, and issues related to educational equity and providing access of opportunity to students from underserved populations.
Cross listed: EDMS 241

EDSS 242. Critical Perspectives in Classroom Inquiry. 3 Units
Prerequisite(s): EDMS 241 or EDSS 241
Term Typically Offered: Fall only

This course is part of the Master of Arts in Teaching with Single Subject Teaching Credential Program and builds on the knowledge that students gain in EDMS/EDSS 241. During this course students will complete a literature review of research related to their critical inquiry question. Students will additionally explore the historical and current trends in critical classroom inquiry and consider the implications for schools in diverse settings. Further course activities include developing a Classroom Inquiry Project and submitting the IRB.
Cross listed: EDMS 242

EDSS 243. Data Collection for Action Research in Multicultural Settings. 3 Units
Prerequisite(s): EDMS 241 or EDSS 241.
Term Typically Offered: Fall only

This course builds students understanding of appropriate types and uses of data in Action Research in multicultural education settings. During this course students will be presented with the sociopolitical contexts for data collection and its subsequent use in educational policy. Students will apply theoretical knowledge by practicing to collect and initially interpreting multiple types of data. These experiences will lay the groundwork for students development and implementation of the data collection plan for their own Classroom Inquiry Projects.
Cross listed: EDMS 243.

EDSS 244. Sociocultural & Sociopolitical Contexts of Data Analysis. 3 Units
Prerequisite(s): EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243
Term Typically Offered: Spring only

This course builds students understanding of appropriate methods of data analysis in Teacher Action Research in multicultural education settings. Students will learn how data analysis has been used to interpret research in diverse school settings. Students will apply theoretical knowledge by analyzing multiple types of data sets form both qualitative and quantitative sources. These experiences will lay the groundwork for students implementation of analysis of their own data for their Action Research inquiry projects.
Cross listed: EDMS 244

EDSS 264A. Theoretical Foundations of Teaching in a Multicultural Democratic Society. 3 Units
Prerequisite(s): Admission to the Single Subject Credential program or MA in Teaching with Single Subject Teaching Credential Program.
Term Typically Offered: Fall, Spring

An introduction to critical analysis of the purpose and process of public schooling. Examination of the sociopolitical contexts of public schools and society; educational theories, philosophies, notions of culture, community and educational practice. Engagement with sociocultural, historical and philosophical foundations of education, learning theories, theories of adolescent cognitive and social development. Modalities include lecture and discussions.

EDSS 264E. Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop-Linked Learning. 3 Units
Prerequisite(s): Admission to the Single Subject Credential program or MA in Teaching with Single Subject Teaching Credential program.
Term Typically Offered: Fall, Spring

Candidates explore sociocultural, historical and philosophical foundations of education with focus on context of Linked Learning and critical examination of traditional tracking and vocational education. Students will evaluate the extent to which programs aimed at Career Pathways and College Readiness depart from or replicate previous patterns and analyze historical/economic drivers that shape schooling. Initial application of strategies and approaches associated with Linked Learning theories, theories of adolescent cognitive and social development. Integration of Discussions, simulation, activities.

EDSS 265C. Advanced Fundamentals of Teaching, Lecture. 1 Unit
Prerequisite(s): EDSS 365A and EDSS 365B
Corequisite(s): EDSS 265D
Term Typically Offered: Fall, Spring

Extends learning in EDSS 365A or EDSS 365B with deeper examination of the relationship between elements of teaching and instructional organization needed to effectively teach in culturally and linguistically diverse and inclusive secondary classrooms through the use of backward design, Universal Design for Learning, differentiated instruction and assessment. The focus will be grounded in a Social Justice/Multicultural paradigm. Emphasis will include students' development as teacher through exploration of curriculum development frameworks, long-and short-term planning approaches, specific theories for instructional practice.

EDSS 265D. Advanced Fundamentals of Teaching, Workshop. 1 Unit
Prerequisite(s): EDSS 365A and EDSS 365B
Corequisite(s): EDSS 265C
Term Typically Offered: Fall, Spring

Extends learning in EDSS 365A, B and EDSS 265C by deepening knowledge about the relationship between elements of teaching and instructional organization. Focus on effective teaching for culturally and linguistically diverse and inclusive secondary classrooms through the use of backward design, Universal Design for Learning, differentiated instruction and assessment. Instructional framework will be grounded in a Social Justice/Multicultural paradigm. Emphasis will include students' development as a teacher including application of curriculum development theories, long-and short-term planning frameworks and specific theories.

EDSS 265F. Advanced Fundamentals of Teaching, Workshop - Linked Learning. 1 Unit
Prerequisite(s): EDSS 365A and EDSS 365E
Corequisite(s): EDSS 265C
Term Typically Offered: Fall, Spring

The second course in a two-course series. Deepens candidates' ability to apply frameworks for effective teaching of culturally and linguistically diverse students (e.g., inclusion strategies, backwards design, Universal Design for Learning, differentiated instruction and assessment). Continued emphasis on a Social Justice/Multicultural Education paradigm, and focus on candidates' development as a teacher. Application of Linked Learning curriculum development, long- and short-term planning frameworks, and specific theories for instructional practice and assessment. Discussion, small group work, simulations.

EDSS 266B. Single Subject Seminar, B. 2 Units
Prerequisite(s): EDSS 366A
Corequisite(s): EDSS 474b or EDSS 417A/EDSS 471B
Term Typically Offered: Fall, Spring

Second part of a two-part sequence that provides opportunities for student teachers to discuss, analyze, reflect upon data gathered from field placements and to support completion of TPA teaching event. Attention given to policies, school law, resources, strategies, routines and activities that contribute to productive environments in school and classrooms as locations for student engagement and learning. Special emphasis will be on English Language Development and students with special needs. Course assignments and activities are integrated with other core courses.
Credit/No Credit

EDSS 266D. Single Subject Seminar, D. 2 Units
Prerequisite(s): EDSS 366C
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second of two-course series. Provide structured opportunities for candidates to discuss, analyze, reflect upon data gathered from field; support completion of TPA. Further study of policies, school law, resources, strategies, routines, and activities needed for productive environments in classrooms as locations for student engagement/learning. Special emphasis on English Language Development, students with special needs, and specific management/implementation of Linked Learning activities (e.g. multidisciplinary integrated units of study). Course assignments/activities integrated with other core courses.
Credit/No Credit

EDSS 279A. Method and Materials for Teaching Secondary English Learners, A. 1.5 Units
Prerequisite(s): EDUC 170; Admission to the Single Subject Credential program
Term Typically Offered: Fall, Spring

This course is the first of a two-course series. Introduces candidates to a repertoire of theory-based methods needed to facilitate and measure their own students' growth in English language development (ELD) as well as create learning environments which promote content area learning through the use of Specially Designed Academic Instruction in English (SDAIE). Candidates acquire knowledge and skills in methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 279B. Methods and Materials for Teaching Secondary English Learners, B. 1.5 Units
Prerequisite(s): EDSS 279A
Term Typically Offered: Fall, Spring

Second course in a two-course series. Candidates expand their repertoire of theory-based methods to facilitate and measure their own students' growth in English language development (ELD} as well as create learning environments which promote content area learning through the use of Specially Designed Academic Instruction in English (SDAIE). Candidates deepen knowledge and skills related to methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 279C. Method and Materials for Teaching Secondary English Learners, C. 1.5 Units
Prerequisite(s): EDUC 170; Admission to the Single Subject Credential Program.
The first of two-course series. Introduces candidates to theory-based methods to facilitate/measure their own students' growth in English language development and create learning environments which promote content area learning through Specially Designed Academic Instruction in English (SDAIE). Specific instruction given to develop skills in Linked Learning settings and learning activities therein. Candidates acquire knowledge/skills in methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 279D. Method and Materials for Teaching Secondary English Learners, D. 1.5 Units
Prerequisite(s): EDSS 279C
Second in two-course series. Candidates expand repertoire of theory-based methods to facilitate/measure students' growth in English language development and create learning environments which promote content area learning through Specially Designed Academic Instruction in English (SDAIE). Specific instruction given to develop skills in Linked Learning settings and learning activities therein. Candidates deepen knowledge and skills related to methods of teaching a second language through readings, fieldwork, discussion, group interaction, lesson presentation, hands-on experience of methods, and materials exploration.

EDSS 282. Strategies for Inclusive Classrooms: Single Subject. 3 Units
Prerequisite(s): Admission into a teacher preparation program or an MA in Teaching with Multiple/Single Subject Teaching Credential program.
Term Typically Offered: Fall, Spring

This course provides single subject and special education candidates with dispositions, knowledge, and skills needed to serve students with disabilities in general education classrooms. Strategies specific to students in their least restrictive environment will be covered emphasizing Universal Design for Learning, Multi-Tiered Systems of Support, social-emotional learning, co-teaching, differentiated instruction, roles and responsibilities of special/general education teachers, peer mediated learning strategies, modifications of standards and learning outcomes for students with disabilities, and assistive technology (low and high tech adaptations).
Cross listed: EDSP 293

EDSS 299. Special Problems: Single Subject. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects for Single Subject credential candidates at graduate/credential level especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and the Department Chair.
Note: This course may be repeated for up to 9 units of credit.

Credit/No Credit

EDSS 300. Teaching Performance Assessment-Single Subjects. 1 Unit
Corequisite(s): EDTE 470B or EDSS 474B or EDTE 471A
Term Typically Offered: Fall, Spring

Candidates in the Teacher Preparation Program must complete the Teaching Event for the Performance Assessment for California Teachers. The Teaching Event requires candidates to plan and teach an instructional sequence in their student teaching placement. They must also assess student learning during this lesson sequence and submit a videotape with material recorded during the lesson sequence. The Teaching Event is a summative assessment and one of several requirements that must be completed in order to receive a recommendation for a teaching credential.
Note: Corequisite can be waived if candidate is retaking EDSS 300

Credit/No Credit

EDSS 364B. Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop. 1.5 Units
Prerequisite(s): Admission to the Single Subject Credential program
Corequisite(s): EDSS 364A
Term Typically Offered: Fall, Spring

An introduction to critical analysis of the purpose and process of public schooling. Examination of the sociopolitical contexts of public schools and society; educational theories, philosophies, notions of culture, community and educational practice. Exploration of sociocultural, historical and philosophical foundations of education. Initial application of strategies and approaches associated with learning theories, theories of adolescent cognitive and social development. Modalities include discussion, simulation and activities.

EDSS 364C. Advanced Theoretical Foundations of Teaching in a Multicultural Democratic Society, Lecture. 1 Unit
Prerequisite(s): Admission into the Single Subject Credential Program; EDSS 264A.
Corequisite(s): EDSS 364D
Term Typically Offered: Fall, Spring

Further study of the purposes and processes of public schooling. Candidates develop a philosophy of education for teaching in a multicultural, multilingual, and democratic society through self-examination of dispositions related to gender, sexuality, race, social class, language, religion/spirituality and ability. Modalities include lecture and discussions.

EDSS 364D. Advanced Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop. 1 Unit
Prerequisite(s): Admission into the Single Subject Credential Program; EDSS 264A
Corequisite(s): EDSS 364C
Term Typically Offered: Fall, Spring

Further study of the purposes and processes of public schooling. Candidates develop a philosophy of education for teaching in a multicultural, multilingual, and democratic society through self-examination of dispositions related to gender, sexuality, race, social class, language, religion/spirituality and ability. Modalities include discussions, small group tasks, group projects and simulations.

EDSS 364F. Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop-Linked Learning. 1 Unit
Prerequisite(s): EDSS 264A
Corequisite(s): EDSS 364C
Term Typically Offered: Fall, Spring

Further study of purposes and processes of public schooling with a special focus on educational theory and practice in Linked Learning contexts. Candidates develop a philosophy of education for teaching in a multicultural, multilingual, and democratic society through self-examination of dispositions related to gender, sexuality, race, social class, language, religion/spirituality and ability. Modalities include discussions, small group tasks, group projects, simulations.

EDSS 365A. Fundamentals of Teaching, Lecture. 1.5 Units
Prerequisite(s): Admisson into Single Subject Teacher Preparation Program
Corequisite(s): EDSS 365B
Term Typically Offered: Fall, Spring

This course introduces the relationship between elements of teaching and instructional organization to effectively teach in culturally and linguistically diverse and inclusive secondary classrooms through the use of backwards design, Universal Design for Learning, and differentiated instruction. The focus will be grounded in a Social Justice/Multicultural paradigm. Emphasis will include students' development as a teacher, curriculum development, long and short-term planning, and specific theories for instructional practice. Lecture and Discussion.

EDSS 365B. Theoretical Foundations of Teaching in a Multicultural Democratic Society, Workshop. 1.5 Units
Prerequisite(s): Admission into Single Subject Teacher Preparation Program
Corequisite(s): EDSS 365A
Term Typically Offered: Fall, Spring

This course introduces the relationship between elements of teaching and instructional organization to effectively teach in culturally and linguistically diverse and inclusive secondary classrooms through the use of backwards design, Universal Design for Learning, and differentiated instruction. The focus will be grounded in a Social Justice/Multicultural paradigm. Emphasis will be on application of theories and frameworks learned in EDSS 365A, with a focus on students' development as a teacher, curriculum development, long and short-term planning, and assessing student learning. Discussion, small group work and simulations.

EDSS 365E. Fundamentals of Teaching, Workshop - Linked Learning. 1.5 Units
Prerequisite(s): Admission to the Single Subject Teacher Preparation program
Corequisite(s): EDTE 365A
This is the first course in a two course series; practice using instructional planning frameworks (e.g., backwards design, Universal Design for Learning, and differentiated instruction) and a Social Justice/Multicultural Education paradigm to design learning segments for culturally and linguistically diverse students. Emphasis on application of theories and frameworks learned in EDTE 365A, with a focus on Linked Learning curriculum development and integration, long- and short-term planning, and assessing student learning. Discussion, small group work, simulations.

EDSS 366A. Single Subject Seminar, A. 3 Units
Prerequisite(s): Acceptance into Single Subject Teacher Credential program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

First part of a 2-course sequence that provides structured opportunities for student teachers to discuss, analyze, and reflect upon data gathered from their field placements. Attention given to policies, school law, resources, strategies, routines, and activities that contribute to the productive management of the school and classroom as locations for student engagement and learning. Special emphasis will be on English Language Development and students with special needs. Course assignments and activities are integrated with other core courses. Credit/No Credit

EDSS 366C. Single Subject Seminar, C. 3 Units
Prerequisite(s): Admission to the Single Subject Credential program
Corequisite(s): EDSS 474A
First of two-course sequence. Provides structured opportunities for candidates to discuss, analyze, and reflect upon data gathered from field. Attention given to policies, school law, resources, strategies, routines, and activities that contribute to productive management of school and classroom as locations for student engagement/learning. Special emphasis on English Language Development, students with special needs, and specific management and implementation of Linked Learning activities (e.g. multidisciplinary integrated units of study). Course assignments/activities integrated with other core courses.
Credit/No Credit

EDSS 368. Inclusive Education in Secondary Schools. 1 Unit
Prerequisite(s): Admission to the Single Subject Credential Program
Term Typically Offered: Fall, Spring

Candidates learn historical, theoretical, and practical information related to key issues facing secondary public schooling currently, including how to educate learners with special needs, differentiate instruction in the content areas, develop assessments that fairly and accurately measure student learning, and use universal design to structure classroom and school practices, processes and policies to maximize access to core content for all students, regardless of language or ability. Lecture and discussion.

EDSS 373A. Educational Technology Lab I. 1 Unit
Prerequisite(s): Admission to the Single Subject Credential Program.
Term Typically Offered: Fall, Spring

Educational technology lab course will prepare the candidates use technology for three areas: coursework in the teaching credential program, enhancing teaching and learning and eportfolio development. The candidates are introduced to an array of digital technologies for teaching relevant for K-12 student learning. The candidates are also prepared to use technology in the Teaching Credential Program and for the development of an electronic portfolio.
Credit/No Credit

EDSS 373B. Educational Technology Lab II. 1 Unit
Prerequisite(s): EDSS 373A
Term Typically Offered: Fall only

This course will offer support and instructions of facilitating and improving learning of a diverse student population by creating, using, and managing appropriate technological processes and resources. The candidates will learn applying and developing knowledge of technology in K-12 teaching and student learning. The candidates are prepared to use technology in the Teaching Credential Program and for the development of an electronic portfolio.
Credit/No Credit

EDSS 373C. Educational Technology Lab - Linked Learning. 1 Unit
Prerequisite(s): Admission to the Single Subject Credential program
This course encompasses the knowledge, skills and dispositions needed to understand, describe and develop 'technological, pedagogical content knowledge' for effective pedagogical practice in a technology enhanced learning environment. Instruction occurs through labs, online resource center and individualized support. Candidates develop a range of technology skills and knowledge needed for effective instruction in the Linked Learning classroom and provides technology resources associated with project-based learning and integrated curricular units.
Credit/No Credit

EDSS 383A. Methods in English Education, A. 1.5 Units
Prerequisite(s): Admission to the teacher preparation program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

A critical course for English teaching preparation, educational experiences will promote understandings, attitudes and competencies necessary for effective instruction in English Language Arts and literacy in grades 7-12. Candidates acquire skills related to literacy assessment, text selection, and lesson/unit planning designed to meet the needs of all learners, including mainstream populations, English learners and students with special needs. Students are provided with opportunities to acquire skills, knowledge, practice, and experience planning for and teaching secondary English language arts and literacy. Lecture and discussion.

EDSS 383B. Methods in English Education, B. 1.5 Units
Prerequisite(s): EDSS 383A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

A critical course for English teaching preparation, educational experiences will promote understandings, attitudes and competencies necessary for effective instruction in English Language Arts and literacy in grades 7-12. Candidates acquire skills related to literacy assessment, text selection, and lesson/unit planning designed to meet the needs of all learners, including mainstream populations, English learners and students with special needs. Students are provided with opportunities to acquire skills, knowledge, practice, and experience planning for and teaching secondary English language arts and literacy. Lecture and discussion.
Note: This course is the second in a two course series

EDSS 384A. Instruction and Assessment of Academic Literacy, A. 1.5 Units
Prerequisite(s): Admission to the Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

Introduction to foundational understandings, attitudes and competencies necessary for effective instruction of academic language and literacy in 7-12 content area classrooms. Candidates acquire skills related to literacy assessment, text selection, and lesson planning designed to meet the needs of all learners, including mainstream population, English learners and students with special needs. Candidates develop an awareness of what constitutes effective content literacy instruction and a beginning repertoire of strategies to help students meet the demands of content reading, writing and discussion. Lecture and discussion.

EDSS 384B. Instruction and Assessment of Academic Literacy, B. 1.5 Units
Prerequisite(s): EDSS 384A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second course in a two course series on understanding effective instruction of academic language and literacy in 7-12 content area classrooms. Candidates hone skills in literacy assessment, text selection, and lesson planning to meet the needs of all learners, including mainstream populations, English learners and students with special needs. Application of content literacy instruction (pre, during and post reading and writing strategies). Enhanced knowledge of strategies to support students' attainment of the demands of content reading, writing and discussion. Lecture, discussion.

EDSS 385A. Methods in World Language Education, A. 1.5 Units
Prerequisite(s): Admission into the Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

This course is designed for candidates who are preparing to teach world languages in secondary school settings in California public schools. Candidates will learn about current theoretical bases for second-language acquisition and how such theories inform classrooms practice. Candidates have introductory opportunities to practice principles of learning from which teachers can draw as they make decisions about instruction. Lecture, discussion and simulation.
Cross Listed: WLL 385A; only one may be counted for credit.

EDSS 385B. Methods in World Language Education, B. 1.5 Units
Prerequisite(s): EDSS 385A or WLL 385A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

This course continues learning initiated in EDSS 385A and is designed for candidates who are preparing to teach world languages in secondary school settings in California public schools. Candidates will learn additional methodologies for planning and delivering instruction in world languages. Candidates will practice instructional strategies and will design lessons. Candidates will implement assessments that capture student learning of key world language outcomes, including oral language and written language development and reading fluency. Strategies for teaching cultural appreciation are also embedded. Lecture, discussion and simulation.
Cross Listed: WLL 385B; only one may be counted for credit.

EDSS 386A. Methods in Mathematics Education, A. 1.5 Units
Prerequisite(s): Admission to Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

First part of a two-course sequence that provides instruction to organize instructional materials, techniques of presentation and methods of evaluation for secondary school mathematics. Articulated with student teaching and should be taken the same semester. Activities include discussions, presentations and demonstrations.

EDSS 386B. Methods in Mathematics Education, B. 1.5 Units
Prerequisite(s): EDSS 386A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second part of a two-course sequence that provides continuation of organization of instructional materials, techniques of presentation and methods of evaluation for secondary school mathematics. Articulated with student teaching and should be taken the same semester.

EDSS 387A. Methods in History/Social Science Education, A. 1.5 Units
Prerequisite(s): Admission into the Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

First of a two-part field and lecture-based course which will prepare candidates to teach history-social science content and analysis skills to secondary students, particularly those who are culturally and linguistically diverse, have special needs, or are English learners. Focus on identifying and evaluating curricular resources and instructional strategies that emphasize the active use of critical thinking skills and the development of civic values for informed participation in a democratic society.

EDSS 387B. Methods in History/Social Science Education, B. 1.5 Units
Prerequisite(s): EDSS 387A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second of a two-part field and lecture-based course which will prepare candidates to teach history-social science content and analysis skills to secondary students, particularly those who are culturally and linguistically diverse, have special needs, or are English learners. Focus on implementing curriculum and instructional strategies and assessing student mastery of grade-level content and skills that are central to history-social science disciplines.

EDSS 388A. Methods in Science Education, A. 1.5 Units
Prerequisite(s): Admission to Single Subject Teacher Credential Program
Corequisite(s): EDSS 474A
Term Typically Offered: Fall, Spring

First part of a two-course sequence that provides introduction to organization of instructional materials, techniques of presentation, and methods of evaluation for secondary school science. Articulated with student teaching and should be taken the same semester. Activities include discussion, presentations and demonstrations.

EDSS 388B. Methods in Science Education, B. 1.5 Units
Prerequisite(s): EDSS 388A
Corequisite(s): EDSS 474B
Term Typically Offered: Fall, Spring

Second part of a two-course sequence that provides introduction to organization of instructional materials, techniques of presentation, and methods of evaluation for secondary school science. Articulated with student teaching and should be taken the same semester. Activities include discussion, presentations and demonstrations.

EDSS 401. Observation and Participation in Secondary Classrooms. 2 Units
Prerequisite(s): Admission to Teacher Preparation Program
Teacher candidates will observe and participate as teaching assistants in public school secondary classrooms.
Credit/No Credit

EDSS 440. Work-Based Learning Field Experience. 2 Units
Prerequisite(s): Admission to the Single Subject Credential program
This fieldwork course focuses on the work-based learning core component of Linked Learning/Career Pathways. After an orientation to work-based learning, its function in Linked Learning/Career pathways, and how it can be integrated into core curriculum, candidates will experience a non-paid, one-week internship at a worksite associated with one of the 15 major CA industries. Candidates develop work-based knowledge and experiences to be applied when they create a subject-specific curricular unit incorporating their work-based learning. Fieldwork, discussion.

EDSS 470A. Field Experience: Secondary. 6 Units
Prerequisite(s): Acceptance into the Sacramento State Single Subject Teaching Credential Program.
Term Typically Offered: Fall, Spring

Provides candidates with field experiences of increasing complexity and responsibility as they engage in cycles of teaching. Public school assignment in a secondary school serving culturally and linguistically diverse community for one university semester with three periods of responsibility: English learner class, single subject content class, and an observation/consultation period. Observations and supervised teaching experiences will be systematic and structured.
Credit/No Credit

EDSS 470B. Student Teaching: Secondary. 12 Units
Term Typically Offered: Fall, Spring

Provides candidates with field experiences of increasing complexity and responsibility as they engage in cycles of teaching. Experiences will be systematic and structured. Student teachers will be placed for the public school's semester at a school serving linguistically and culturally diverse students. Candidates become more independent with primary responsibility for cycle of teaching with equivalent of three periods supervised teaching and one consultation period.
Credit/No Credit

EDSS 471A. Elementary Physical Education Student Teaching. 5 Units
Prerequisite(s): Acceptance into the Sacramento State Single Subject Teaching Credential Program.
Term Typically Offered: Fall, Spring

The elementary physical education teacher will be placed in a setting where he/she is able to plan, implement, promote and assess a developmentally appropriate physical education program that meets the diverse needs, interests and abilities of elementary school children, K-6.
Credit/No Credit

EDSS 471B. Secondary Physical Education Student Teaching. 4 Units
Prerequisite(s): The successful completion of EDTE 471A.
Term Typically Offered: Fall, Spring

The secondary physical education student teacher will be placed in a setting where he/she is able to plan, implement, promote and assess a developmentally appropriate physical education program that meets the diverse needs, interests and abilities of secondary school children, 6-12.
Credit/No Credit

EDSS 474A. Field Experiences in Secondary Schools. 6 Units
Prerequisite(s): Admission into the Single Subject Teaching Credential Program
Term Typically Offered: Fall, Spring

Provides candidates with field experiences of increasing complexity and responsibility as they engage in cycles of teaching. Public school assignment in a secondary school serving culturally and linguistically diverse community for one university semester with three periods of responsibility: English learner class, single subject content class and an observation/consultation period. Observations and supervised teaching experiences will be systematic and structured.
Credit/No Credit

EDSS 474B. Student Teaching in Secondary Schools. 8 Units
Prerequisite(s): EDSS 474A; all subject matter competence and basic skills requirements met, per CTC program standards
Term Typically Offered: Fall, Spring

Candidates engage in student teaching, taking on tasks of increasing complexity and responsibility as they perform cycles of teaching. Student teaching will be systematic and structured. Student teachers will be placed for the public school's semester at a school serving linguistically and culturally diverse students. Candidates become more independent with primary responsibility for cycle of teaching with equivalent of three periods supervised teaching and one consultation period.
Credit/No Credit

EDSS 500. Classroom Inquiry Project: Culminating Experience. 3 Units
Prerequisite(s): EDMS 242 or EDSS 242 and EDMS 243 or EDSS 243.
Term Typically Offered: Spring only

Course establishes that master candidates have acquired the essential knowledge and skills covered in each of the courses leading to the Master of Arts in Teaching with Single Subject Teaching Credential. Proficiency is demonstrated through a comprehensive examination of essential content of each course in the master's degree program. Candidates will produce a written portfolio, accompanying executive summary, and oral presentation of the body of work completed during the Master of Arts in Teaching with Single Subject Teaching Credential program.
Cross listed: EDMS 500.

Credit/No Credit

Education - Special Education (EDSP)

EDSP 119. Legal and Social Foundations of Special Education. 3 Units
Term Typically Offered: Fall, Spring

Course provides analysis and practical application of social, legal, and ethical practices in the field of special education. Provides candidates with an overview of state and federal laws and regulations, current case law, and up-to-date mandates from No Child Left Behind. Competencies needed to develop individualized programming for children with disabilities (IEP and IFSP), verification criteria, parent's rights, IEP development and implementation, goal and objective development, placement procedures and IEP monitoring will be emphasized.

EDSP 201. Developing Collaborative Partnerships with Families, Professionals, and Communities in ECSE. 3 Units
Prerequisite(s): Admission into the MA in Teaching with Education Specialist Early Childhood Special Education Teaching Credential.
Term Typically Offered: Fall only

Overview of ECSE historical, philosophical, theoretical/empirical, and legal bases for family centered, relationship based special education services. Emphasis is on developing cross-cultural competence and a strengths-based, student centered approach to empowering families and advocating for students with disabilities. Students will develop skills required to build and maintain collaborative relationships through effective communication and teaming with families, students, professional colleagues, and community members. These skills include person-centered planning, coaching, curriculum planning, and IFSP/IEP development.

EDSP 205. Methods in Access and Inclusion in the Core Curriculum: Mod/Severe Disabilities. 2 Units
Prerequisite(s): EDSP 119
Corequisite(s): EDSP 413 or EDSP 414
Term Typically Offered: Fall, Spring

Focus will be on the following three areas 1) unit design, varied and modified outcomes, and evaluation of student skills; 2) instructional implementation strategies, including modeling, demonstration, direct and indirect, discovery, and cognitive/meta-cognitive strategies; 3) adaptations and accommodations which will enhance success for the full range of students with disabilities within the general education curriculum.

EDSP 206. Collaborative Program Planning with Families, Professionals, and Communities. 3 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or advisor approval
Term Typically Offered: Fall, Spring

Students will develop skills in the areas of: family collaboration; school and community collaboration in the context of IEP development and school partnerships; cross-cultural competence; communication; person-centered planning/future planning, partnering with families; transdisciplinary teaming to develop the IEP and the ITP; and facilitating social relationships and friendships as part of the school experience.

EDSP 207. Secondary/Post-Secondary Methods and Transition Planning: Moderate/Severe Disabilities. 2 Units
Prerequisite(s): EDSP 119
Corequisite(s): EDSP 413 or EDSP 414
Term Typically Offered: Fall, Spring

Students will develop knowledge and skills related to strategies for including students with in the middle and high school environment. Students will develop skills in community-based instruction transition planning, in addition to designing outcomes and supports within the general education curriculum. Students will also gain knowledge and skills related to vocational and supported employment, and preparation for work after high school, and how to facilitate a successful transition to post-secondary education, supported living, and supported employment.

EDSP 208. Evidenced-based Assessment and Instruction: Mod/Severe Disabilities. 2 Units
Prerequisite(s): EDSP 119
Corequisite(s): EDSP 414 or EDSP 415
Term Typically Offered: Fall, Spring

Students will be provided with a strong basis in ecological and functional assessment in inclusive school and community environments. Students will develop the ability to: a) set up performance analyses within natural environments; b) map out cognitive initiation vs. performance, and the communication requirements of various settings; c) conduct baselines within general education classrooms, the school, and the community, and develop resulting IEP goals and objectives; and, d) write effective and systematic instructional programs.

EDSP 209. Developing Augmentative & Alternative Communication Systems: Assessment and Intervention. 3 Units
Prerequisite(s): EDSP 119, EDSP 206, EDSP 235 or advisor approval.
Term Typically Offered: Fall, Spring

Participants will learn: a) how to assess communicating behavior from nonsymobolic to symbolic and unintentional to sophisticated in students with disabilities; b) to work with audiologists and ophthalmologists to assess sensory functioning related to communication; c) to develop communication system intervention plans, both low and high tech; and d) how to implement instruction across multiple environments and with multiple partners. In addition, students will learn strategies for facilitating interactions between students with and without disabilities, teaching others to utilize adapted communication systems, and collaboration with varied professionals.

EDSP 210. Assessment and Evaluation in Early Childhood Special Education. 3 Units
Prerequisite(s): Admittance to the Education Specialist Credential Program: Early Childhood Special Education
Term Typically Offered: Fall only

Quality practices in early childhood assessment using a range of culturally appropriate tools and techniques, parent-professional-collaboration, transdisciplinary team assessment, assessment reporting and translating results into intervention planning. Participants will demonstrate skills in planning, carrying out and reporting results of assessments/evaluations for eligibility determination, program planning, and monitoring ongoing progress for infants, young children and their families.

EDSP 211. Curriculum, Intervention Strategies, and Environments in ECSE I: Infants & Toddlers. 3 Units
Prerequisite(s): Admittance to the Education Specialist Credential Program: Early Childhood Special Education
Term Typically Offered: Spring only

Designed to develop the skills necessary to design and implement developmentally appropriate curriculum and intervention strategies for infants and toddlers with disabilities in a range of learning environments including home, center-based and community programs.

EDSP 212. Curriculum, Intervention Strategies, and Environments in ECSE II: Preschool. 3 Units
Prerequisite(s): Admittance to the Education Specialist Credential Program: Early Childhood Special Education
Term Typically Offered: Fall only

Designed to develop the skills necessary to design and implementation developmentally appropriate curriculum and intervention strategies for young children with disabilities in a range of learning environments including home, center-based and community programs. Lecture.

EDSP 216. Understanding the Implications of Developmental Diversity in Children and Youth. 3 Units
Corequisite(s): EDSP 413 or EDSP 478, or program advisor/coordinator approval.
Term Typically Offered: Fall, Spring

Using a critical disability theory perspective, examines early development of young children and youth across developmental areas. Explores: 1) atypical development due to prenatal, perinatal, and early childhood developmental risk factors; 2) childhood development theories and how they support educators' understanding of children, youth, families and developmentally and age appropriate practices; 3) service delivery models and key transitions; and 4) implications of developmental disabilities across the lifespan.

EDSP 217. Positive Behavioral Support: Effective Individual, Class-wide and School-wide Applications. 3 Units
Prerequisite(s): Admission to the MA in Teaching with Education Specialist Moderate/Severe or ECSE Teaching Credential Programs.
Corequisite(s): EDSP 413, EDSP 478, EDSP 476, EDSP 477, or advisor approval.
Students will learn to use functional assessment and positive behavioral supports to enhance the quality of life for children and youth who have mild to serious behavioral challenges. This also includes methods for class-wide and school-wide positive behavioral support. Students will gain an understanding of behavior as communication, supports and instruction to enable the learner to replace challenging behavior with more effective communication skills, and preventative changes to the environment and instruction.

EDSP 218. Instructional Strategies: Low Incidence Disabilities. 3 Units
Prerequisite(s): EDSP 205, EDSP 208, EDSP 414 or advisor approval
Corequisite(s): EDSP 236, EDSP 415 or EDSP 421 or advisor approval
Term Typically Offered: Fall, Spring

Students will learn advanced methods of assessment and instruction for students with moderate to severe and profound disabilities, and multiple disabilities. Students will learn to design assessments and work with transdisciplinary team members to write an integrated assessment report, and present the report. Students will develop IEPs/ITPs based on the transdisciplinary information, write instructional programs using research-based methods, and design methods for monitoring progress using ongoing instructional data.

EDSP 220. Language and Literacy in Inclusive Classrooms I. 3 Units
Term Typically Offered: Fall, Spring

This course provides candidates with the evidence based principles and systematic and explicit techniques to develop phonological awareness, phonics, concepts about print, oral and written language, and word recognition strategies. Candidates will learn techniques specific to assessing a student in reading and applying the information to assist the student with reading difficulties. Accommodations and modifications for students with mild, moderate, and severe disabilities will be emphasized.

EDSP 221. Language and Literacy in Inclusive Classrooms II. 3 Units
Prerequisite(s): EDSP 220
Term Typically Offered: Fall, Spring

Course provides candidates with evidence based principles, systematic and explicit techniques, procedures in reading fluency, comprehension, and vocabulary development. Candidates will learn literal and higher level comprehension strategies that assist students in understanding narrative and expository text. Candidates will receive instruction on the principles, techniques, and procedures for teaching spelling, handwriting, and critical study skills. Accommodations and modifications for students with mild, moderate and severe disabilities will be emphasized.

EDSP 225A. Assessment and Evaluation for Students with Mild/Moderate Disabilities. 2 Units
Prerequisite(s): Admittance to Mild/Moderate/Severe Credential program or permission of respective special education coordinator.
Corequisite(s): EDSP 225B
Term Typically Offered: Fall, Spring

Candidates examine relationships between assessment, curriculum, and instruction through application of a variety of formal and informal assessments and curricula. Candidates administer and interpret norm-referenced, criterion-referenced, and curriculum-based instruments that assess academic achievement, social behavior, and emotional functioning. Candidates learn basic principles and strategies related to using and communicating results of a variety of assessment and evaluation approaches. Authentic assessment strategies, specifically designed to support and inform instruction, will be emphasized.

EDSP 225B. Assessment and Evaluation for Students with Mild/Moderate Disabilities Lab. 1 Unit
Corequisite(s): EDSP 225A
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 225A) in a setting serving students with mild/moderate disabilities.
Credit/No Credit

EDSP 229. Curriculum and Instruction Strategies for Students with Mild/Moderate Disabilities. 3 Units
Prerequisite(s): Admittance to Mild/Moderate, Moderate/Severe, Multiple Subjects, and Single Subject Credential programs or permission of respective special education advisors.
Term Typically Offered: Fall, Spring

Methods for designing and implementing instruction for students with mild/moderate disabilities. Topics include typical/atypical human development, resilience and protective factors, evidenced-based instructional strategies, designing and managing environments and materials, differentiated instruction, collaborative teaming to design and evaluate integrated services, technology (including assistive technology) to support access to general education curriculum, implementation of UDL, modifications and adaptations of state standards, components of IDEA and their implication for a multidisciplinary approach developing IEPs for special needs students included in general education classrooms.

EDSP 229B. Curriculum and Instruction Strategies for Students with Mild/Moderate Disabilities Lab. 1 Unit
Corequisite(s): EDSP 229
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 229) in a setting for students with mild/moderate disabilities who receive special education services. Students will verify multiple experiences across the age-span and in inclusive settings, agencies, and other natural environments.
Credit/No Credit

EDSP 230. Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges. 3 Units
Term Typically Offered: Fall, Spring

Comprehensive study and application of intervention strategies that enhance the quality of life for students with mild/moderate disabilities. Students will learn (a) how to design learning environments that prevent and reduce problem behaviors, (b) learn how to identify and assess problem behavior using functional behavioral assessment methods, (c) learn how to design and implement positive behavioral support interventions which are in compliance with federal IDEA law, and (d) apply behavioral procedures on a systemic, school wide basis.

EDSP 230B. Positive Behavior Supports for Students with Mild, Moderate, and Severe Behavioral Challenges Lab. 1 Unit
Prerequisite(s): Admittance into Mild/Moderate or Moderate/Severe Credential program, APE program, or permission of respective special education coordinator.
Corequisite(s): EDSP 230
Term Typically Offered: Fall, Spring

Comprehensive study and application of intervention strategies that enhance the quality of life for students with mild/moderate disabilities. Students will learn (a) how to design learning environments that prevent and reduce problem behaviors, (b) learn how to identify and assess problem behavior using functional behavioral methods, (c) learn how to design and implement positive behavioral support interventions which are in compliance with federal IDEA law, and (d) apply behavioral procedures on a systemic, school wide basis.

EDSP 232. Effective Communication and Collaborative Partnerships. 2 Units
Term Typically Offered: Fall, Spring

The content provided in this course is directed toward the preparation of pre-service and/or intern teachers of students with mild/moderate disabilities. To facilitate positive and inclusive environments, the course provides instruction in effective communication, collaboration, and consultation with individuals with disabilities and their family, primary caregivers, general/special education teachers, related service personnel, administrators, the business community and public/non-public agencies. Candidates will also be supported in the development of a Preliminary Mild/Moderate Education Specialist Portfolio.

EDSP 233. Final Student Teaching Seminar: Mild/Moderate. 1 Unit
Prerequisite(s): EDSP 232
Corequisite(s): EDSP 472 or EDSP 473
Term Typically Offered: Fall, Spring

Designed to allow the special education candidate teacher/intern to focus upon two overall issues pertaining to their specific needs: problems and resolutions particular and general to their teaching assignment and culminating portfolio development.
Credit/No Credit

EDSP 234. Directed Fieldwork Seminar: Early Childhood Special Education. 1 Unit
Prerequisite(s): Admittance to the Education Specialist Credential Program: Early Childhood Special Education
Corequisite(s): EDSP 474 or EDSP 475 or EDSP 476 or EDSP 477
Term Typically Offered: Fall, Spring, Summer

Designed to allow the ECSE teacher candidate to focus on two overall issues: Problems and resolutions particular and general to their teaching assignment, and the development and/or refining of a preliminary Level I Performance Portfolio.
Note: May be repeated for up to 2 units of credit.

Credit/No Credit

EDSP 235. Field Seminar in Program and Instruction: Mod/Severe Disabilities. 2 Units
Prerequisite(s): Admittance into Mild/Moderate or Moderate/Severe Credential program or advisor approval
Term Typically Offered: Fall, Spring

This field seminar will provide group discussion as well as direct instructional guidance in classrooms and schools in which students in the Moderate/Severe Specialist Credential or Autism Spectrum Disorders Added Authorization (ASDAA) are conducting their assignments.

EDSP 236. Student Teaching Seminar: Moderate/Severe Disabilities. 1 Unit
Prerequisite(s): EDSP 208 and EDSP 414
Corequisite(s): EDSP 218, EDSP 415 or EDSP 421 or advisor approval
Term Typically Offered: Fall, Spring

This seminar accompanies the final Student Teaching II experience. Students will meet for two hours, eight times, during the semester to discuss their experiences and problem solve any questions or challenges related to their Student Teaching II requirements. Since this is the advanced experience, it is expected that the seminar will be primarily focused on professional issues related to the collaborative implementation of effective programs for students with moderate/severe disabilities. At each meeting there will be topics for discussion generated by the professor, but also time for collaborative problem solving around specific students and program issues in the student teaching settings.
Credit/No Credit

EDSP 237. Transition Strategies for Students with Mild/Moderate Disabilities. 3 Units
Term Typically Offered: Fall, Spring

Candidates will examine legal mandates specific to transition planning and implementation, and evaluate transitional life experiences for students with mild/moderate disabilities across the lifespan. Candidates will explore and implement social skills, and career and vocational program planning for secondary students with Mild/Moderate disabilities. Planning will include the student, community services, and other community resources such as parents and various professionals that will lead to increased student learning with career goals and objectives to support their transition to post-school settings.

EDSP 237B. Transition Strategies for Students with Mild/Moderate Disabilities Lab. 1 Unit
Corequisite(s): EDSP 237.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 237) in inclusive setting for students with mild/moderate disabilities.
Credit/No Credit

EDSP 250. Education Research. 3 Units
Prerequisite(s): Advancement to Candidacy for Special Education concentration; passing WPG exam for all other concentrations.
Term Typically Offered: Fall, Spring

Studies qualitative and quantitative methods in the development of reliable knowledge in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies. Classified students are encouraged to take this course early in their graduation programs.

EDSP 251. Education in a Democratic, Pluralistic Society. 3 Units
Prerequisite(s): Passing WPG exam
Term Typically Offered: Fall, Spring

Advanced study of social and psychological issues which need to be considered in education relating to the client, the educator, the community and society. Addresses implications of theories of learning, assessment, individual differences and social/political influences.

EDSP 276A. Education of Students with Emotional and Behavioral Disorders. 2 Units
Prerequisite(s): Admittance into Mild/Moderate or Moderate/Severe Credential or M.A. in Education programs and EDSP 230 or equivalent
Corequisite(s): EDSP 276B
Term Typically Offered: Fall, Spring

Concentrate on the assessment, characteristics, interventions and classroom strategies, which uniquely address the educational needs of students with emotional and behavioral disorders. Students will review current laws, policies and selected literature specific to students identified as EBD and their families. Strategies to create and promote collaborative partnerships with parents, mental health representatives and/or other service providers will be presented.

EDSP 276B. Education of Students with Emotional and Behavioral Disorders - Lab. 1 Unit
Prerequisite(s): Admittance into Mild/Moderate or Moderate/Severe Credential or M.A. in Education programs and EDSP 230 or equivalent
Corequisite(s): EDSP 276A
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDSP 276A) in serving students with emotional and behavioral disorders. Students are required to participate in class visitations, agency visitations, and interviews.

EDSP 281. Critical Issues in Special Education Research and Practice. 6 Units
Prerequisite(s): Successful completion of Education Specialist Credential coursework and student teaching--Mild/Moderate Disabilities Credential, Moderate/Severe Disabilities Credential or Early Childhood Special Education Credential program
Term Typically Offered: Summer only

This course provides an introduction to Action Research in the field of special education. The overall goal is to improve teacher effectiveness in the classroom through research and develop teacher-researchers, producers and consumers of empirical knowledge. Students will develop research writing skills to understand problems of practice, critical issues, and policy in special education. The course is designed to facilitate connections between methodological paradigm and teaching practices related to doing action research and covers quantitative, qualitative, and mixed-methods research approaches.

EDSP 282. Methods in Research Design and Practice with Diverse Children, Youth, and Families. 3 Units
Prerequisite(s): EDSP 281
Term Typically Offered: Fall only

This course is the second course in the final research sequence taken by the candidates in the Masters of Arts in Teaching for all three special education fields. The focus of this course is four-fold: 1) deepening candidates' knowledge of methods in both qualitative and quantitative research design intended for action research; 2) development of each candidate¿s action research proposal; 3) preparing for Institutional Review Board (IRB); and 4) completing a draft of chapters 1, 2, and 3.

EDSP 283. Critical Analysis and Interpretation of Data within Diverse School and Community Contexts. 3 Units
Prerequisite(s): EDSP 281, EDSP 282
Corequisite(s): EDSP 500
Term Typically Offered: Spring only

This course focuses on students¿ understanding and use of appropriate data analysis methods for teacher action research in diverse schools/communities. Students will learn to critically analyze and interpret data from qualitative, quantitative and mixed-methods sources by using theoretical knowledge or conceptual frameworks, and to present findings to inform teacher practices and support systems change/reform efforts to improve the lives of individuals with disabilities. Students also will analyze, write and present findings from their thesis research in written and oral/visual formats.

EDSP 290. Seminar for Culminating Experiences. 3 Units
Prerequisite(s): Approval of Culminating Experience Proposal or instructor permission.
Seminar to focus on topics/elements/expectations to be included in the culminating experiences (thesis, project, or comprehensive exam). Successful completion of the course requires completion of Chapters 1 and 2 of the thesis/project and the beginning of Chapter 3 for the MA thesis/project option or an exam petition to be approved by the departmental exam committee, including annotated bibliographies and position papers on the focal topics for the MA comprehensive exam option.

EDSP 292. Teaching English Learners with Disabilities. 3 Units
Term Typically Offered: Fall, Spring

Candidates will learn basic principles, strategies and procedures for teaching English Learners with disabilities. Compliance and legal issues related to English Learners identified with disabilities, including writing linguistically appropriate goals and objectives, and implementing culturally responsive strategies will be addressed. Systematic and explicit strategies for accommodating and modifying curricular materials for English Learners with disabilities in inclusive classrooms will be emphasized.

EDSP 292B. Teaching English Learners with Disabilities Lab. 1 Unit
Corequisite(s): EDSP 292
Term Typically Offered: Fall, Spring

Field-based practice lab will be a synthesis and application of course content (EDSP 292) in the implementation of culturally responsive, systematic and explicit strategies, and curricular material involved in teaching English Learners with disabilities in inclusive classrooms.
Credit/No Credit

EDSP 293. Strategies for Inclusive Classrooms: Education Specialist. 3 Units
Prerequisite(s): Admission into a teacher preparation program.
Term Typically Offered: Fall, Spring

This course provides multiple subject and special education candidates with dispositions, knowledge, and skills needed to serve students with disabilities in general education classrooms. Strategies specific to students in their least restrictive environment will be covered emphasizing Universal Design for Learning, Multi-Tiered Systems of Support, social-emotional learning, co-teaching, differentiated instruction, roles and responsibilities of special/general education teachers, peer mediated learning strategies, modifications of standards and learning outcomes for students with disabilities, and assistive technology (low and high tech adaptations).
Cross listed: EDSS 282/EDSP 293/EDMS 213

EDSP 297. Current Issues in Special Education. 3 Units
Prerequisite(s): Passing WPG exam
Term Typically Offered: Fall, Spring

Examines current issues in special education through review of selected journal articles, presentations by guest lecturers and class discussion. Students will be required to write a series of brief position papers in professional style on selected topics.

EDSP 298. Master's Seminar in Special Education. 3 Units
Prerequisite(s): EDSP 297
Corequisite(s): EDSP 297
Term Typically Offered: Fall, Spring

Students choosing Program A for the M.A. in Education, Special Education option must register for the seminar during their final semester of study, prior to attempting the written comprehensive examination. In the seminar, students will study problems and issues associated with specialty areas as well as with the field of special education as a whole.

EDSP 299. Special Problems: Special Education. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects for Special Education credential candidates at graduate/credential level especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and the Department Chair.
Note: This course may be repeated for up to 9 units of credit.

Credit/No Credit

EDSP 413. Field Experience I: Moderate/Severe Disabilities. 3 Units
Prerequisite(s): EDSP 235 or advisor approval
Term Typically Offered: Fall, Spring

Students will spend two days per week in a school where students with moderate/severe disabilities are included in general education classes and other school activities. They will be assigned both a general and special education cooperating teacher. These teachers will work with the University supervisor to make sure that the student is able to complete the assignments and required competencies. The University supervisor will observe and evaluate the practicum student at least four times during the semester. An evaluation will be completed at the end of the semester.
Credit/No Credit

EDSP 414. Field Experience II: Moderate/Severe. 3 Units
Prerequisite(s): EDSP 413 or equivalent
Term Typically Offered: Fall, Spring

The second phase of supervised field experience for specialist candidates in the Level I moderate/severe program or ASDAA program. Candidates spend 160-hours in a school setting with students who have moderate/severe disabilities. They will work directly with a qualified cooperating teacher and a University supervisor throughout a semester to complete assignments and required competencies. Assignment evaluation will be based on written and observational criteria. An evaluation will be completed at the midterm and at the end of the semester.
Credit/No Credit

EDSP 415. Student Teaching: Moderate/Severe. 5 Units
Prerequisite(s): EDSP 414
Corequisite(s): EDSP 236
Term Typically Offered: Fall, Spring

The culminating phase of field experience for specialist candidates in the Level I moderate/severe credential program. Candidates will spend 320-hours in a public school setting with students who have moderate/severe disabilities. They will work directly with a qualified mentor/cooperating teacher and a University supervisor throughout a semester to complete assignments and required competencies. Assignment evaluation will be based on written and observational criteria. An evaluation will be completed at the midterm and at the end of the semester.
Credit/No Credit

EDSP 420A. Multiple Subject Field Experience. 6 Units
Term Typically Offered: Fall, Spring

Initial Multiple Subject credential field experience, with integrated methods coursework, is a M-Th, half-day fieldwork requirement. Effective Instruction and classroom management are the focus of the Initial Multiple Subject field experience. Candidates complete field experience in public school classrooms concurrently with integrated coursework. Field experiences focus primarily on observing model lessons and activities and on collaborative planning, implementing and assessing instruction for small groups of students.
Note: This is a full semester field experience in general ed. classrooms.

Credit/No Credit

EDSP 420B. Multiple Subject Student Teaching. 8 Units
Term Typically Offered: Fall, Spring

Final semester of a Multiple Subject credential student teaching with integrated methods coursework requires M-Th, full-day participation of the student. Emphasis on classroom teaching and further experience with community services. Candidates must meet the criteria for student teaching to be accepted to this course.
Credit/No Credit

EDSP 421. Intern Teaching: Moderate/Severe Disabilities. 5 Units
Prerequisite(s): EDSP 414 and instructor approval
Corequisite(s): EDSP 236
Term Typically Offered: Fall, Spring

Intern teaching full day, M-F, for the semester in a host LEA/District providing services for students receiving moderate/severe special education services. Interns must meet CTC-mandated criteria and district must have an active Memorandum of Understanding with the university. Intern serves as a teacher of record and is employed by the district. Is supported by a university supervisor and an on-site mentor to make progress towards the program competencies and standards. An evaluation will be completed at the midpoint and end of the semester.
Credit/No Credit

EDSP 471. Mild/Moderate: Field Experience. 6 Units
Term Typically Offered: Fall, Spring

Phase I Field Experience (EDSP471) - The first phase of fieldwork typically occurs in the second semester (M-Th, 15 weeks, a half day) in the credential program. This semester is designed for candidates who are prepared, educationally and emotionally, for a rigorous schedule of classes and student teaching in coming semesters.
Credit/No Credit

EDSP 472. Mild/Moderate: Student Teaching. 8 Units
Prerequisite(s): EDSP 471 or equivalent.
Term Typically Offered: Fall, Spring

Student teaching full day, M-Th, for the semester in a cooperating LEA District providing services for students receiving mild/moderate special education. Cooperating teachers work with the University supervisor to support the candidate in completing the required assignments and competencies. An evaluation will be completed at the mid point and end of the semester. Variable units depending on instructor recommendation and individualized student and program considerations.
Note: Signature of credential candidates' special education advisor is required on application for student teaching

Credit/No Credit

EDSP 473. Mild/Moderate: Intern Teaching. 8 Units
Prerequisite(s): All criteria related to recommendation for the intern credential and instructor approval.
Corequisite(s): EDSP 233
Term Typically Offered: Fall, Spring

A credit/no credit directed internship in a district, county office of education or program serving students with mild/moderate disabilities. Candidates must meet the criteria for an internship to be accepted to this course. A University supervisor will support the candidate in completing all required competencies. An evaluation will be completed at mid point and end of the semester.
Note: Signatures of credential candidates' special education advisor, faculty, chair are required on application.

Credit/No Credit

EDSP 474. Directed Field Experience in ESCE: Infants & Toddlers. 6 Units
Prerequisite(s): Admission to the MA in Teaching with Early Childhood Special Education Teaching Credential.
Corequisite(s): EDSP 211
Term Typically Offered: Fall, Spring, Summer

Working closely with an assigned field mentor and university supervisor, candidates complete 180 hours of directed field experience in a cooperating school district, county office of education or appropriate privately operated program providing early intervention services for infants and toddlers with disabilities and their families. Candidates must secure faculty approval by prior application for directed field experience.
Credit/No Credit

EDSP 475. Directed Field Experience in ECSE: Preschool. 6 Units
Prerequisite(s): Admission to the MA in Teaching with Education Specialist Early Childhood Special Education Teaching Credential program.
Corequisite(s): EDSP 234
Term Typically Offered: Fall, Spring

Working closely with an assigned field mentor and university supervisor, candidates complete 180 hours experience in a cooperating school district or county office of education program providing special educational services for preschoolers and their families. Candidates must secure faculty approval by prior application for directed field experience and may choose to take EDSP 477 (Internship in ECSE: Preschoolers) as a course equivalent.
Credit/No Credit

EDSP 476. Internship in ECSE: Infants & Toddlers. 10 Units
Prerequisite(s): Admission to the MA in Teaching with Education Specialist Early Childhood Special Education Teaching Credential program and Education Specialist Intern application process.
Term Typically Offered: Fall, Spring, Summer

Internship in a cooperating District or County Office of Education providing special educational services for infants and toddlers and their families. Candidates must meet the criteria for an internship in order to register. Students may enroll in EDSP 474, Directed Field Experience in ECSE I: Infants & Toddlers, as an alternative to EDSP 476. Ten units, approximately 320 field hours, are required to meet competencies. May be repeated for credit.
Credit/No Credit

EDSP 477. Internship in ECSE: Preschool. 10 Units
Prerequisite(s): Admission to the MA Teaching Education Specialist Early Childhood Special Education Teaching Credential program
Term Typically Offered: Fall, Spring

Internship in a cooperating District or County Office of Education providing special educational services for preschoolers and their families. Candidates must meet the criteria for an internship in order to register. Students may enroll in EDSP 475, Directed Field Experience in ECSE II: Preschool, as an alternative to EDSP 477. Ten units, approximately 320 field hours, are required to meet competencies.
Credit/No Credit

EDSP 478. Field Experience I: Early Childhood Special Education. 3 Units
Prerequisite(s): Admission to the MA in Teaching with Education Specialist Early Childhood Special Education Teaching Credential program.
Corequisite(s): EDSP 209, EDSP 216, EDSP 217, or approval of ECSE program advisor.
Term Typically Offered: Fall, Spring

Students will spend two days per week with an agency, community-based program, or school where families with infants and toddlers with disabilities or preschoolers with disabilities are being served. They will be assigned a cooperating education specialist who they will work with to make sure the student is able to complete the assignments. Students will engage in the site through observing best practices and participating in activities with children and families as directed.
Credit/No Credit

EDSP 479. Field Experience II: Early Childhood Special Education. 3 Units
Corequisite(s): EDSP 210, EDSP 212, and EDSP 293 or approval of ECSE program coordinator
Term Typically Offered: Fall, Spring

The second phase of field-based experience for ECSE candidates is a supervised practicum. Candidates will spend a minimum of two days per week with a community-based program or school where preschoolers with disabilities are being served. They will be assigned a cooperating education specialist and University supervisor who they will work with to complete assignments. An evaluation of program competencies will be completed at the end of the semester. Perquisite: Admission to MA in Teaching with Education Specialist Early Childhood Special Education Teaching Credential program
Credit/No Credit

EDSP 500. Master of Arts Thesis: Special Education. 3 Units
Prerequisite(s): Approval of Culminating Experience Proposal or instructor permission
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree.

EDSP 501. Master of Arts Project: Special Education. 3 Units
Prerequisite(s): Approval of Culminating Experience Proposal or instructor permission
Term Typically Offered: Fall, Spring

Completion of a project that integrates research with development of a product related to instruction of persons with disabilities.

Educational Leadership and Policy Studies (EDLP)

EDLP 200. Diversity and Equity in Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

The primary objective of this course is to prepare future education administrators to lead for a just, equitable, and inclusive education in all educational environments.

EDLP 200A. Diversity and Equity in Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

Primary objective is to provide a learning environment conducive to the development of knowledge, understanding and skills consistent with Multicultural Education and pluralistic philosophy. It will examine the advantages and complexities of a strategic approach to school and community relationships. Content will focus on public policy formation; community education role of culturally and linguistically diverse groups; current recommendations and emerging issues as they relate to the role of the school, family, and community in the ongoing debate of school reform.

EDLP 201. Foundations of Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

An introduction to theory and practice of educational leadership at the local, state, and federal levels. Specifically, students will examine strategies and techniques to effectively lead schools and other educational settings in the 21st century.

EDLP 201A. Foundations of Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

Introduction to theory and practice of educational administration at the local, state, and federal levels including but not limited to the structure and function of administration, organizational behavior, interpersonal relationships, trends affecting contemporary practice, and the changing nature of school reform. Designed to encourage introspection and the reflective process to examine students' values, beliefs and needs. Students will examine strategies for integrating new information and experiences into their evolving professional knowledge base.
Note: May be taken twice for credit (Adm Credential Interns).

EDLP 202. School Law and Ethics of Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

The study of school law and ethical decision making as it applies to school leadership including federal and state decisions affecting the educational setting.

EDLP 202A. Legal Basis of Education. 3 Units
Prerequisite(s): Admission to the Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Study of school law as set forth in the common law, state, and federal constitutions, statutes, judicial decisions, and in the rules and regulations of state departments and local units of administration.

EDLP 203. Foundations of Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

School finance with focus on the State of California school system.

EDLP 203A. Financial Resources Planning and Allocation. 3 Units
Prerequisite(s): EDLP 201
Term Typically Offered: Fall, Spring

School finance and business administration with focus on the California school system.

EDLP 205. Instructional Leadership. 3 Units
Term Typically Offered: Fall, Spring

Instructional leadership that focuses on the diverse needs of students through the collection and analysis of data, state standards, accountability systems and culturally relevant pedagogy. Theory and practice will be explored on the best practice of supervisory techniques, classroom observation, and teacher improvement.

EDLP 205A. Curriculum and Instructional Leadership in K-12 Schools. 3 Units
Prerequisite(s): EDLP 201
Term Typically Offered: Fall, Spring

Focuses on the significance of instructional leadership in the design and implementation of curriculum leading to high achievement for all students in K-12 schools. Particular attention will be given to current state and federal school accountability requirements, standards-based curriculum, the use of disaggregated student achievement data to design an instructional program appropriate to and effective for a diverse student population, and best research-based instructional practices.

EDLP 206A. Supervision and Leadership. 3 Units
Prerequisite(s): Admission to the Educational Leadership Program and instructor permission.
Term Typically Offered: Fall, Spring

Supervisory theory and technique, including assessment of educational innovations, supervision of teaching, development of strategies for in-service programming, and the roles of various groups and individuals in the improvement of instruction.

EDLP 208A. School Leadership/Management. 3 Units
Prerequisite(s): Admission to the Educational Leadership Program
Term Typically Offered: Fall, Spring

Examination, synthesis, and application of contemporary leadership/management theory and processes at the site or unit level; consideration given to the expanding roles and current requirements in the administration of educational enterprises. Lecture three hours per week.

EDLP 209. Organizational Systems and Human Resources. 3 Units
Term Typically Offered: Fall, Spring

Students will engage in examination, synthesis, and application of human resources and management practices necessary to effectively serve as school leader in P-12 educational setting.

EDLP 209A. Human Resources and Supervision. 3 Units
Term Typically Offered: Fall, Spring

Examines human resources and personnel practices in educational organizations. Key themes and issues in personnel will be presented with broad assumptions regarding dominant practices and their application to establishing positive human relations.

EDLP 221. Foundations in Higher Education Leadership. 3 Units
Prerequisite(s): Admission to the Master of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Analyzes higher education including its historical, political, philosophical and social aspects with emphasis upon the implications of crucial issues for leaders in higher education. An examination of the historical origins of contemporary practices and discourse and an analysis of the complex relationships between society and institutions of higher education: patterns of governance and coordination; diversity; overview of organizational and administrative structure; faculty; curriculum; student affairs, policy, and demographic trends.

EDLP 222. Diversity in Higher Education. 3 Units
Prerequisite(s): Admission to the Master of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Engages participants in a process of inquiry and reflection through self-critique, peer critique, and the dialogical examination of our assumptions, ideas, and understandings that promote intellectual growth. Participants will examine and discuss the literature, research, and discourse concerning theory, policy, and practice about diversity and its relation to higher education.

EDLP 223. Advanced Seminar: Student Affairs Leadership. 3 Units
Prerequisite(s): Admission to the Master of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Administration of student services and student affairs in colleges and universities. Principles that guide professional practice and decision making will be explored, as will the roles and responsibilities of student affairs professionals. Students will have the opportunity to explore current and future issues and directions in student services.

EDLP 224. Advanced Seminar: Dynamics of Organizational Change. 3 Units
Term Typically Offered: Fall, Spring

Students will engage in examination, synthesis, and application of theories of change, organizational problem solving, planning and evaluation and change management. An exploration of administrative roles and responsibilities.

EDLP 225. Advanced Seminar: Ethical Decision Making. 3 Units
Prerequisite(s): Admission to the Master of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Links analysis with action through a survey of the ethical, legal, and professional issues facing the public or private education administrator. Underlying decision making is to understand the basic nature of the academic enterprise and apply social and moral values to the management of higher education and ethical decision making.

EDLP 226. Workforce Development Professional Competencies. 3 Units
Term Typically Offered: Fall, Spring

Explores the foundational and professional competencies of workforce education and development in the context of educational institutions, business and industry, government, NGOs, and economic development at the national and local/regional level. Introduces the field and practice of human resource development in the workplace.

EDLP 227. Leading the Way for Student Success: Student and Instructional Services. 3 Units
Term Typically Offered: Fall, Spring

Participants will explore changing demographics, accountability regarding statewide mandates, reporting regulations, and accreditation, new technology and other factors impacting California's community college student services programs and professionals. Gain an understanding of the philosophy and mission of student services initiatives and programs and student development theory. Examine the role of faculty as leaders in curriculum, instruction and assessment and student success. Understand the purposes and uses of research and technology to address student outcomes, teaching and learning, institutional effectiveness, and decision-making.

EDLP 228. Innovative Leadership: Strengthening Organizational Capacity. 3 Units
Term Typically Offered: Fall, Spring

California higher education leaders are presented with increased legislative and public pressure for accountability while in an era of chronic and disparate under-funding of the system. Understand the relationship between higher education finance and the overall fiscal operations of California's higher education systems.

EDLP 229. Adult Education and Learning. 3 Units
Term Typically Offered: Fall, Spring

Explores the historical and philosophical foundations of the field of adult education and learning. Contemporary applications of adult learning theories and practices are explored to provide a broad understanding of andragogy (the art and science of teaching adults) and how it relates to workforce development and other related fields (e.g., career and technical education, human resource development).

EDLP 230. Master of Arts Thesis/Project Seminar. 3 Units
Prerequisite(s): EDLP 250 and advancement to candidacy.
Term Typically Offered: Fall, Spring

This individualized seminar is designed to extend research knowledge, and provide direction in the use of library/professional education resources, as well as exposure to sample theses and projects using APA style. Reviews research methods and a review of the literature and provides instruction in the appropriate academic writing style and format for academic presentations.
Credit/No Credit

EDLP 250. Education Research. 3 Units
Prerequisite(s): Admission into the EDLP Program.
Term Typically Offered: Fall, Spring

Studies qualitative and quantitative methods in the development of reliable knowledge in the field of education. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies. Establishes and improves students' professional and academic writing skills in preparation for leadership duties. Classified students are encouraged to take this course early in their graduate programs.
Note: Graduate Writing Intesive (GWI) course.

EDLP 255. Field Experience Seminar. 3 Units
Prerequisite(s): Completion of 12 units including EDLP 200, EDLP 201, and either EDLP 205 or EDLP 206A for Preliminary Administrative Services Internship Credential students only.
Corequisite(s): EDLP 401 and/or EDLP 402 for Administrative Services Credential students only.
Term Typically Offered: Fall, Spring

Experience and practice in observation and analysis of school environment, including disaggregated student achievement data.
Note: Intern Students are allowed to take class twice and can take course concurrently with EDLP 401 and EDLP 402.

Credit/No Credit

EDLP 270. Advanced Seminar: Applied Leadership and Staff Teambuilding. 3 Units
Prerequisite(s): Graduate level status within the School of Education and instructor permission.
Term Typically Offered: Fall, Spring

Develop a comprehensive theoretical/conceptual framework from which to view current research surrounding Organizational Leadership and Staff Teambuilding. Special emphasis will be on providing students with experiential learning activities beyond the classroom and incorporate challenging outdoor components. Students will develop a resource portfolio relevant to their unique work situations.

EDLP 273. Advanced Seminar: Grants, Proposals and Systematic Planning. 3 Units
Term Typically Offered: Fall, Spring

Systematic planning theory and skills with particular attention to use of these skills in the development of grant proposals. Students will use funding agency regulations and guidelines relative to program development and implementation, and will develop a proposal which may be submitted to a funding agency.
Credit/No Credit

EDLP 277. Advanced Seminar: Assessment. 2 Units
Prerequisite(s): Admitted into the Professional Administrative Credential.
Term Typically Offered: Fall, Spring

Engage participants in a process of ongoing assessment of their administrative practice as school leaders. Such ongoing assessment uses multiple points of data, multiple sources of information, and multiple feedback sources such as colleagues and mentors.
Credit/No Credit

EDLP 286. Advanced Seminar: Supervision and Leadership. 3 Units
Prerequisite(s): Admission to the Educational Leadership Program, EDLP 206A, instructor permission.
Term Typically Offered: Fall, Spring

Through lecture and discussion, philosophical and practical problems of supervision of instruction will be explored. Current research on effective teaching, staff development, supervisory techniques, and theories of learning for both students and adults will be examined as a basis for sound supervision practices.

EDLP 292. Advanced Seminar: Current Topics in Educational Leadership and Policy Studies. 3 Units
Term Typically Offered: Fall, Spring

Selected current topics of concern to those involved with the administration of schools and other educational systems.
Credit/No Credit

EDLP 293. Induction Seminar. 2 Units
Term Typically Offered: Fall, Spring

Induction Seminar leads to the training experience of the Professional Administrative Services Credential candidate. Facilitates the interaction among candidate, district mentor, and university advisor, per standards of the Commission on Teaching Credentialing. Through guided practice, candidates are prompted and supported in developing an individualized induction plan. This induction plan includes mentoring, academic program at the university and non-campus components.
Credit/No Credit

EDLP 296A. Capstone Research Project. 3 Units
Prerequisite(s): Advancement to Candidacy
Each student conducts an individual project to fulfill the culminating experience graduation requirement. The course covers application of research in education to the professional practice of educational leadership, and integrates the accumulated knowledge, skills and strategies delivered in the program. This course is the culmination of the MA in Educational Leadership/Higher Education Leadership, leading to completion of the final project and the 4-semester degree.
Credit/No Credit

EDLP 296D. Leading with Technology in Institutions of Higher Education. 3 Units
Prerequisite(s): Admissions to the Master's of Education: Higher Education Leadership Option.
Term Typically Offered: Fall, Spring

Geared specifically to meet the needs of those leaders in higher education. Those new to technology or those who want to learn more about using technology to lead programs and institutions of high education. Participants will be provided with an array of appropriate educational technology resources to drive decision making practices. They will also learn various programs and software used to address enrollment management, admissions, records, fiscal matters, etc.

EDLP 299. Special Problems Educational Leadership. 1 - 4 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required. Professional Credential Students only may take up to 8 units.

Credit/No Credit

EDLP 299T. Special Problems - Educational Leadership. 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading - for students working on their culminating MA requirements.
Note: Departmental petition required.

Credit/No Credit

EDLP 401. Internship On-the-Job Experience. 8 Units
Term Typically Offered: Fall, Spring

First semester of the on-the-job internship experience. Interns are supervised in the administrative roles by sponsoring employing agency, as well as by university faculty. Limited to, and required of, internship candidates for the Preliminary Administrative Services Internship Credential.
Credit/No Credit

EDLP 402. Internship On-the-Job Experience. 8 Units
Term Typically Offered: Fall, Spring

Second semester of the on-the-job internship experience. Interns are supervised by sponsoring employing agency, as well as by university sponsors. Limited to, and required of, candidates for the Preliminary Administrative Services Internship Credential.
Credit/No Credit

EDLP 403. Internship On-the-Job Experience. 8 Units
Corequisite(s): EDLP 413.
Term Typically Offered: Fall, Spring

Third semester of the on-the-job experience for candidates who have not completed their credential requirements during the first year of internship. (Refer to EDLP 401.) Limited to, and required of, candidates for the Preliminary Administrative Services Internship Credential.
Credit/No Credit

EDLP 404. Internship On-the-Job Experience. 8 Units
Corequisite(s): EDLP 414.
Term Typically Offered: Fall, Spring

Fourth semester of the on-the-job internship experience. (Refer to EDLP 403.)
Credit/No Credit

EDLP 413. Supplemental Internship Experience. 6 Units
Corequisite(s): EDLP 403.
Term Typically Offered: Fall, Spring

Third semester of the supplemental internship experience. Provides first-hand visitations and experiences in various educational and community agencies at state, county, district, and local school levels; additional supervised experience for candidates; and seminar experiences in observation and analysis of school environments for candidates for the Preliminary Administrative Services Internship Credential.
Credit/No Credit

EDLP 414. Supplemental Internship Experience. 6 Units
Corequisite(s): EDLP 404.
Term Typically Offered: Fall, Spring

Fourth semester of the supplemental internship experience. Provides first-hand visitations and experiences in various educational and community agencies at state, county, district, and local school levels; additional supervised experience for candidates; and seminar experiences in observation and analysis of school environments for candidates for the Preliminary Administrative Services Internship Credential.
Credit/No Credit

EDLP 495A. Field Study in Educational Leadership. 3 Units
Prerequisite(s): Admission to Educational Leadership Program; completion of twelve (12) units of EDLP coursework, including EDLP 255; approval of faculty advisor.
Term Typically Offered: Fall, Spring

On-the-job experience in which the candidate assumes responsibility for observation and analysis of school environments including leadership responsibilities, supervision of instructional program, and overall school climate.
Credit/No Credit

EDLP 495B. Field Study in Educational Leadership. 3 Units
Prerequisite(s): EDLP 495A
Term Typically Offered: Spring only

Students will participate in leadership driven field experience at a TK-12 educational setting. The leadership activities will be purposefully planned to ensure the student engages in work that supports their learning as a future/current leader while simultaneously supporting the educational setting with their initiatives.
Credit/No Credit

EDLP 498. Advanced Administrative Field Experience. 8 Units
Prerequisite(s): Admission to Professional Administrative Services Credential Program and full-time employment as a school administrator.
Term Typically Offered: Fall, Spring

Candidates for the Professional Administrative Services Credential are supervised in full-time administrative roles by sponsoring employment agency and university faculty.
Credit/No Credit

EDLP 500A. Master of Arts Thesis/Project. 3 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis or project committee.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree.

EDLP 500B. Master of Arts Thesis/Project. 3 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis or project committee.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree.

Electrical and Electronic Engineering (EEE)

EEE 64. Introduction to Logic Design. 4 Units
Prerequisite(s): CSC 15 or CSC 25 or ENGR 50
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Covers the following topics: logic gates, binary number system, conversion between number systems, Boolean algebra, Karnaugh maps, combinational logic, digital logic design, flip-flops, programmable logic devices (PLDs), counters, registers, memories, state machines, designing combinational logic and state machines into PLDs, and basic computer architecture. Lab emphasizes the use of software equation entry design tools, the use of a schematic entry, and the use of a logic simulation design tool. Lab assignments are design-oriented.
Cross Listed: CPE 64; only one may be counted for credit.

EEE 64W. Introduction to Logic Design Workshop. 1 Unit
Corequisite(s): EEE 64.
Term Typically Offered: Fall, Spring

Assists students in developing a more thorough understanding of logic simulation and logic design. Focus is on problem solving and design. Activity two hours. Lecture three hours; laboratory three hours.
Cross Listed: CPE 64W; only one may be counted for credit.

Credit/No Credit

EEE 108. Electronics I. 3 Units
Prerequisite(s): EEE 117.
Corequisite(s): EEE 108L.
Term Typically Offered: Fall, Spring

Introduction to electronics, ideal OP-AMPS, BJTs, FETs, DC biasing, VI characteristics, single stage amplifiers, low frequency small signal models, power supplies and voltage regulation. PSPICE required.

EEE 108L. Electronics I Laboratory. 1 Unit
Prerequisite(s): EEE 117, EEE 117L.
Corequisite(s): EEE 108.
Term Typically Offered: Fall, Spring

Characteristics and applications of OP-AMPS, rectifiers, BJTs and FETs. Introduction to GPIB, PSPICE and LabVIEW. Laboratory three hours.

EEE 109. Electronics II. 4 Units
Prerequisite(s): EEE 108, EEE 108L, EEE 117, EEE 117L; and)GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Differential and multistage amplifiers, high frequency models (BJTs and FETs), feedback and sensitivity, power amplifiers, oscillators and waveform shaping circuits. Advanced use of PSPICE. Lecture three hours; laboratory three hours.

EEE 110. Advanced Analog Integrated Circuits. 3 Units
Prerequisite(s): EEE 109 or consent of instructor.
Term Typically Offered: Fall only

The use of operational amplifiers in circuit designs for applications such as filtering, switched capacitor design, sample and hold design, instrumentation amplifiers, and voltage reference circuitry will be explored, as well as topics in Feedback Theory.

EEE 111. Advanced Analog Integrated Circuits Laboratory. 1 Unit
Prerequisite(s): EEE 109; either EEE 110 or EEE 230. EEE 110 or EEE 230 may be taken concurrently.
Term Typically Offered: Fall only

Circuit design, mask design, and simulation of integrated circuitry. Use of CAD software to prepare design for fabrication. Individual and group design projects. Laboratory three hours.

EEE 117. Network Analysis. 3 Units
Prerequisite(s): ENGR 17, MATH 45, and PHYS 11C
Corequisite(s): EEE 117L.
Term Typically Offered: Fall, Spring

Review of sinusoidal steady state, phasors, complex power, three phase power, mutual inductance, series and parallel resonance. Introduction to application of Laplace transforms in network analysis, transfer functions, Bode plots, Fourier series, two-port circuits.

EEE 117L. Networks Analysis Laboratory. 1 Unit
Corequisite(s): EEE 117.
Term Typically Offered: Fall, Spring

Introduces fundamental laboratory techniques while demonstrating the concepts introduced in the EEE 117 lecture. The computer simulation language PSPICE is introduced and applied. Laboratory three hours.

EEE 120. Electronic Instrumentation. 4 Units
Prerequisite(s): EEE 108, EEE 117; EEE 108 may be taken concurrently.
Term Typically Offered: Fall, Spring

Fundamental principles of sensors and instrumentation systems, together with their electrical implementation, such as biasing and signal conditioning circuits. Temperature, force, pressure, and mechanical sensors. Optical sensors, including a brief introduction to light sources and detectors. Applications to biomedical engineering and industrial control. Lecture three hours; laboratory three hours.

EEE 122. Applied Digital Signal Processing. 3 Units
Prerequisite(s): EEE 117, EEE 180.
Term Typically Offered: Fall only

Application of digital signal processing to biomedical signals. Origin and characteristics of biomedical signals and contaminations. Preparation of biomedical signals for processing, including sensors, amplification, filtering, sampling, and quantization. Time-domain processing, including peak and zero-crossing detection, time interval measurement, peak height, and moving average estimates of mean and root mean square value. Frequency domain processing, including filtering to separate biomedical signal components and spectrum estimation. Joint time-frequency analysis.

EEE 130. Electromechanical Conversion. 3 Units
Prerequisite(s): EEE 117 and EEE 161
Term Typically Offered: Fall, Spring

Magnetic circuits and principles of electromechanical energy conversion, transformers, DC machines, asynchronous AC machines, synchronous AC machines, introduction to special machines.

EEE 131. Electromechanics Laboratory. 1 Unit
Prerequisite(s): EEE 117, EEE 130 (EEE 130 may be taken concurrently), and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Direct current motor and generator characteristics, three phase synchronous motor and synchronous generator characteristics, single phase power transformer short circuit and no-load tests, frequency changer tests and tests on DC and AC machine models, potential and current transformers.

EEE 135. Renewable Electrical Energy Sources and Grid Integration. 3 Units
Prerequisite(s): EEE 130.
Term Typically Offered: Spring only

The study of existing sources of renewable electric energy such as wind, solar, geothermal, hydro, tidal, wave power, and biomass. Emphasis on wind and solar energy sources and their integration into the electric power grid. Various energy storage methods to accommodate the intermittent nature of these resources. Economic constraints, environmental benefits and institutional regulations.

EEE 136. Smart Electric Power Grid. 3 Units
Corequisite(s): EEE 142 or EEE 144.
Term Typically Offered: Spring only

Smart grid to enhance reliability, security, robustness and efficiency of transmission and distribution systems. Integration of renewable energy sources and distributed generation. Energy storage systems. Advanced metering infrastructure, home-area networks, micro-grids, real-time pricing, plug-in hybrid vehicles, demand response, load curve sharing. Control, monitoring and protection grid; SCADA systems. Voltage and load frequency control to ensure balance. Enabling active participation of consumer. Anticipating and responding to system disturbance in self healing manner. Providing power quality for digital systems needs.

EEE 137. Applications of Power Electronics in Power Systems. 3 Units
Prerequisite(s): EEE 130 and EEE 141
Term Typically Offered: Spring only

Analysis methods for power electronics. Power electronic devices and their control methodologies. Electric machinery drives and flexible alternating current transmission systems (FACTS) devices simulation of cases relevant to applications of power electronics in power systems.

EEE 141. Power System Analysis I. 3 Units
Prerequisite(s): EEE 117 and EEE 161
Term Typically Offered: Fall, Spring

Characteristics of power system components. Transmission line parameters and the steady state performance of transmission lines. Introduction to solutions of linear and nonlinear algebraic equations using Gauss, Gauss-Seidel, and Newton-Raphson techniques. Introduction to power flow analysis.

EEE 142. Power System Analysis II. 3 Units
Prerequisite(s): EEE 130, EEE 141, and EEE 184 (EEE 184 may be taken concurrently).
Term Typically Offered: Fall, Spring

Review of the fundamentals in electric energy systems; power flow analysis, disturbance of normal operating conditions, symmetrical components and sequence impedances, analysis of balanced and unbalanced faults; a brief review of protection systems; optimum allocation and dispatching of generators; dynamic system control; introduction to stability studies. Students in the course will use MATLAB to solve problems.

EEE 143. Power System Laboratory. 1 Unit
Prerequisite(s): EEE 130, EEE 141 and (WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Simulation of three phase operations and transmission line operation including voltage regulation, efficiency of long lines, power system stability, voltage control and load-frequency control, load flow and optimal dispatch for simplified interconnected systems.

EEE 144. Electric Power Distribution. 3 Units
Prerequisite(s): EEE 130.
Term Typically Offered: Fall only

Operation and design of utility and industrial distribution systems including distribution system planning; load characteristics; application of distribution transformers; design of subtransmission lines, distribution substations, primary systems, secondary systems; application of capacitors; voltage regulation and reliability.

EEE 145. Power System Relay Protection and Laboratory. 4 Units
Prerequisite(s): EEE 141
Term Typically Offered: Fall only

Principles of protective relaying (classical and modern), current and voltage transformers, setting and testing or relaying elements, including differential, impedance, over/under current, voltage, and frequency relay types and/or elements, and their applications in protection of power system elements, including lines, generators, transformers, motors, and buses. Lecture 3 hours; laboratory 3 hours.

EEE 146. Power Electronics Controlled Drives. 3 Units
Prerequisite(s): EEE 108, EEE 130.
Term Typically Offered: Fall, Spring

Review thyristors, controlled rectifiers, DC choppers and inverters and pulse width modulation methods including space vector method. Control of DC drives and methods of control of induction synchronious motors including flux-vector methods and computer simulations will be studied.

EEE 147. Power System Operation and Control Laboratory. 1 Unit
Prerequisite(s): EEE 141.
Term Typically Offered: Fall, Spring

Computer simulation methods to describe power system behavior under steady state and dynamic conditions. Experiments conducted using MATLAB and Simulink for load flow in distribution lines, optimal power dispatch, synchronous machine transient behavior under short circuit conditions, transient stability, voltage and reactive power control, classical and modern load frequency control. Laboratory three hours.

EEE 148. Power Electronics Laboratory. 1 Unit
Prerequisite(s): EEE 146; may be taken concurrently.
Term Typically Offered: Fall, Spring

Solid state applications in power control. Diodes, rectifiers (single state and three phase), thrustors. Principle of phase controlled rectification, single phase and three phase converters. Power factor improvement. Three phase Pulse Width Modulation (PWM). AC voltage controllers. SPICE modeling. Strong design emphasis. EMTP modeling. LabView graphics simulation. Microprocessor control of power electronics systems. UPS systems, power supplies, power quality monitoring.

EEE 161. Applied Electromagnetics. 4 Units
Prerequisite(s): MATH 32, MATH 45, PHYS 11C, ENGR 17, and CSC 25.
Term Typically Offered: Fall, Spring

Review of vector calculus. Electrostatic fields from lines, surface and volume charges by Coulomb's law, Gauss' law, Laplace's and Poisson's equations. Capacitance. Magnetostatic field calculations using Biot-Savart's law and Ampere's law. Inductance. Forces on moving charges. Magnetic materials. Electric and magnetic energy in fields. Faraday's law. Ideal transformer. Moving conductor in time-varying magnetic field. Displacement current. Charge-current continuity relation. Transmission line analysis, characteristic impedance, reflection coefficient and standing wave concepts. Introduction to Smith Chart solutions to matching problems.

EEE 162. Applied Wave Propagation. 3 Units
Prerequisite(s): EEE 117, EEE 161.
Term Typically Offered: Fall, Spring

Review of distributed circuit theory and the Smith chart. Impedance matching using series or shunt lumped and distributed circuits or near-quarterwave-matching sections. Noise temperature and noise figure. Scattering coefficient characterization of two-ports. Stability circles for high frequency transistors. Constant gain and noise figure circles. Basic antenna theory. Illustrated by their use for cell phones and other wireless systems.

EEE 163. Traveling Waves Laboratory. 1 Unit
Prerequisite(s): EEE 117, EEE 162 (EEE 162 may be taken concurrently), and (WPJ score of 70+, or at least a C- in ENGL 109M/W)
Term Typically Offered: Fall, Spring

Selected experiments in the transmission and reflection of waves in coaxial lines and waveguides. Antenna impedance and pattern measurements. Laboratory three hours.

EEE 165. Introduction To Optical Engineering. 3 Units
Prerequisite(s): EEE 161, EEE 180, EEE 185; EEE 185 may be taken concurrently.
Term Typically Offered: Fall, Spring

Generation, propagation and detection of light. Fresnel equations, Snells law, diffraction, polarization and interference. Operating principles of LEDs, lasers, photodiodes and optical fibers. Introduction to optical communications systems, integrated optical devices, and optical instrumentation.

EEE 166. Physical Electronics. 3 Units
Prerequisite(s): EEE 108 and CHEM 1E or CHEM 1A
Term Typically Offered: Spring only

Semiconductor physics, atomic models and crystal structures. Quantum theory, energy bands, motion of charge carriers, minority/majority carrier profiles and pn junctions. Manufacturing processes for and operating characteristics of diodes, bipolar transistors and field effect devices.

EEE 167. Electro-Optical Engineering Lab. 1 Unit
Prerequisite(s): EEE 161, EEE 180, EEE 165; EEE 165 may be taken concurrently, and (WPJ score of 70+, or at least a C- in ENGL 109 M/W)
Term Typically Offered: Fall, Spring

Provides senior level undergraduates with hands-on experience in optical engineering and design. Experiments involving laser characteristics, spectral radiometry, diffraction, polarization, modulation of light, holography and spatial filtering will be performed. Laboratory three hours.

EEE 174. Introduction to Microprocessors. 4 Units
Prerequisite(s): Junior status, EEE 64.
Term Typically Offered: Fall, Spring, Summer

Topics include: microcomputer systems, microprocessor architecture, machine and assembly language programming, timing operations, bus arbitration and exception processing logic, addressing modes, parallel and serial ports, memory, assemblers and development systems. The lab uses development systems and target systems in the Computer Engineering laboratory to assemble, link, test and debug and run various assignments. Lecture three hours; laboratory three hours.

EEE 178. Introduction to Machine Vision. 3 Units
Prerequisite(s): EEE 180 or ME 172, or instructor approval.
Term Typically Offered: Spring only

Fundamental digital image processing and machine vision concepts and their application to the fields of robotics and automation. Topics include: digital image processing, image formation, two dimensional transforms, boundary descriptors, motion, camera calibration, vision for robot control, 3-D vision, and hardware architectures to support vision.

EEE 180. Signals & Systems. 3 Units
Prerequisite(s): ENGR 17, MATH 45, EEE 117; EEE 117 may be taken concurrently.
Term Typically Offered: Fall, Spring

Rigorous development of the fundamental relationships governing time-domain and frequency-domain analysis of linear continuous-time and discrete-time systems. Topics include Fourier, Laplace and z-transforms, sampling theorem, modulation, system stability, and digital filters.

EEE 181. Introduction to Digital Signal Processing. 3 Units
Prerequisite(s): EEE 64, EEE 180.
Term Typically Offered: Spring only

Focuses on the application of linear systems theory to design and analysis of digital signal processing systems. Discrete systems, the z transform, and discrete Fourier transform are reviewed. Design of infinite impulse response filters, finite impulse response filters, and digital spectral analysis systems is presented. Computer simulation is used to study the performance of filters and spectral analysis systems. Signal processing architectures are introduced.

EEE 182. Digital Signal Processing Lab. 1 Unit
Prerequisite(s): EEE 180, EEE 181; EEE 181 may be taken concurrently.
Term Typically Offered: Spring only

Provides senior level undergraduate students with experience in the software/hardware design of discrete-time systems, and modern DSP techniques. Laboratory projects will include the following: spectral analysis of analog and digital signals, design of sampling and quantizer circuits, design and realization of IIR and FIR Digital Filters. Hardware projects will include acquisition, analysis, and filtering of speech, biomedical and video signals using Digital Signal Processors (DSPs).

EEE 183. Digital and Wireless Communication System Design. 3 Units
Prerequisite(s): EEE 161, EEE 180; EEE 185 may be taken concurrently.
Term Typically Offered: Fall only

Review of fundamentals, probability, information, distortion by channel, sampling, pulse code modulation, companding, link power calculation, noise figure, pseudo noise. Matched filter detection of binary signals, bit error rate, inter-symbol interference, zero-forcing equalizers. Effects of additive white Gaussian noise in pulse code modulation, spread spectrum in multiple access, cellular radio and other wireless applications. Procedure for making design trade offs will be discussed.

EEE 184. Introduction to Feedback Systems. 3 Units
Prerequisite(s): EEE 180.
Term Typically Offered: Fall, Spring

Dynamic system modeling by transfer function and state-space methods using differential equation, time-response and frequency-response methods. Determination of steady-state errors due to step, ramp and parabolic inputs and disturbances for closed-loop systems. Mapping of block diagrams and state-space representations to signal flow graphs (SFG) as well as finding the transfer function of the system represented by the SFG by Mason's Rule. Closed-loop system stability is examined via poles and eigenvalues and by using the Routh-Hurwitz criterion. Introduction to observability and controllability of systems. Design of compensators for feedback systems using root-locus, frequency response and state-space methods. Introduction to digital control. Computer simulation methods such as MATLAB and SIMULINK are used to support the above subjects.

EEE 185. Modern Communication Systems. 3 Units
Prerequisite(s): EEE 180, ENGR 120; ENGR 120 may be taken concurrently.
Term Typically Offered: Fall, Spring

Review of signal and system analysis, sampling theorem and Nyquist's criteria for pulse shaping, signal distortion over a channel, study of digital and analog communication systems, line coding, signal to noise ratios, performance comparison of various communication systems.

EEE 186. Communication Systems Laboratory. 1 Unit
Prerequisite(s): EEE 117 (EEE 185 may be taken concurrently), and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Experimental study of modulation and demodulation in AM, FM, and digital communication systems, A/D and D/A conversion, measurement of power spectra, noise characterization in frequency domain.

EEE 187. Robotics. 4 Units
Prerequisite(s): EEE 180 or equivalent, or instructor permission.
Term Typically Offered: Fall only

Lecture introduces principles of robotics and design of robot systems. Includes robot architectures, sensing position/velocity, digital circuit noise, actuator and path control, robot coordinate systems, kinematics, differential motion, computer vision/architectures, and artificial intelligence. Laboratory will apply lecture theory in design experiments utilizing five degree-of-freedom robots, an industrial robot, and vision systems.

EEE 188. Digital Control System. 3 Units
Prerequisite(s): EEE 180, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Spring only

Intended to present treatment of the classical digital control with an introduction to modern digital control system in the state space. Z-transform as applied to discrete-time systems with transformation from the s-plane to the z-plane. Analyzes digital control systems using Nyquist and Bode plots and root-locus. Stability analysis of digital systems using Jury test, Routh Criterion, Nyquist and Bode plots. Design using root-locus and Bode plots introduced. Introduction to state-space and pole assignment. Finite-word length effects. MATLAB applications.

EEE 189. Controls Laboratory. 1 Unit
Prerequisite(s): EEE 184 (EEE 184 may be taken concurrently), and (WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Spring only

Study, simulation and design of linear feedback control systems using digital control methods such as MATLAB and SIMULINK. Practical examples of analysis and compensation for closed loop systems.

EEE 192A. Electrical Power Design Project I. 2 Units
Prerequisite(s): EEE 141, EEE 142, EEE 143; EEE 143 may be taken concurrently. WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Concentrates on the planning, research and design aspects of electric power systems, including generation, transmission and distribution systems. Emphasis is placed on design philosophies, problem definition, research, project planning, written and oral communication skills, teamwork, development of specifications and effective utilization of available resources. Lecture one hour; laboratory three hours.

EEE 192B. Electrical Power Design Project II. 2 Units
Prerequisite(s): EEE 142, EEE 143, and EEE192A.
Term Typically Offered: Fall, Spring

Continuation of EEE 192A. Students are expected to continue the power engineering design project begun the previous semester in EEE 192A. Final results of the project report will be presented orally to the class and invited faculty in a publicized seminar. Lecture one hour; laboratory three hours.

EEE 193A. Product Design Project I. 2 Units
Prerequisite(s): EEE 108, EEE 109, EEE 130, EEE 161, EEE 174, EEE 180 (EEE 109 may be taken concurrently), GE Area A and (WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Concentrates on the planning and design of electronic engineering devices, systems and software. Emphasis is placed on design philosophies, problem definition, project planning and budgeting, written and oral communication skills, teamwork, development of specifications, utilization of computer aided design systems, and effective utilization of available resources. Lecture one hour; laboratory three hours.

EEE 193B. Product Design Project II. 2 Units
Prerequisite(s): EEE 193A.
Term Typically Offered: Fall, Spring

Concentrates on design projects begun by the previous semester design teams in EEE 193A. The hardware will be completed, tested for the meeting of specifications and other requirements, and redesigned if necessary. Required software will be written, debugged and incorporated in a written report. The final results of the team project will be presented orally to the class and invited faculty in a publicized seminar. Lecture one hour; laboratory three hours.

EEE 194. Career Development in Electrical and Electronic Engineering. 1 Unit
Prerequisite(s): EEE 192A or EEE 193A, may be taken concurrently.
Term Typically Offered: Fall, Spring

Designed for Electrical and Electronic Engineering students making career decisions. Instruction will include effective career planning strategies and techniques including skill assessments, employment search strategy, goal setting, time management, interview techniques and resume writing. Lecture one hour.
Note: Units earned cannot be used to satisfy major requirements.

Credit/No Credit

EEE 195. Fieldwork in Electrical and Electronic Engineering. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience in Electrical and Electronic Engineering with public agencies or firms in the industry. Requires approval of a petition by the supervising faculty member and Department Chair.
Note: May be repeated for credit.

Credit/No Credit

EEE 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Note: Units earned cannot be used to satisfy major requirements.

Credit/No Credit

EEE 195B. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Note: Units earned cannot be used to satisfy major requirements.

Credit/No Credit

EEE 195C. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Note: Units earned cannot be used to satisfy major requirements.

Credit/No Credit

EEE 195D. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Note: Units earned cannot be used to satisfy major requirements.

Credit/No Credit

EEE 196A. PCB Design Fundamentals. 1 Unit
Prerequisite(s): EEE 102, CPE 102 or EEE 108.
Term Typically Offered: Fall, Spring

Printed circuit board (PCB) design fundamentals including library component creation, schematic capture, layout, routing, signal integrity and transmission line analysis, IEEE/IPC rules and standards, materials, manufacturing processes, and other physical properties of a PCB.

EEE 199. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear qualified for independent work. Approval of the faculty sponsor and the academic advisor must be obtained before registering. May be repeated for credit.

EEE 201. Research Methodology. 1 Unit
Prerequisite(s): Fully classified graduate status.
Term Typically Offered: Fall, Spring

Research methodology, problem formulation and problem solving. Collective and individual study of selected issues and problems relating to fields of study in the Electrical and Electronic Engineering Graduate Program. Orientation to the requirements for Masters Thesis or Project in Electrical Engineering.
Credit/No Credit

EEE 211. Microwave Engineering. 3 Units
Prerequisite(s): EEE 161; EEE 108 or instructor permission.
Term Typically Offered: Fall, Spring

High-frequency passive electronic circuit design, specifically S-parameters, impedance matching, microstrip lines, filters, couplers and antennas.

EEE 212. Modern Antenna Design. 3 Units
Prerequisite(s): EEE 161.
Term Typically Offered: Fall, Spring

Antenna analysis, design, simulation, manufacturing and measurements. Antenna properties. Classification of antennas. Microstrip patch and printed circuit antennas. Dipole antennas. Aperture antennas. Antenna arrays. Antenna measurements. Simulations using full-3D electromagnetic software.

EEE 213. Microwave Devices and Circuits. 3 Units
Prerequisite(s): EEE 162.
Term Typically Offered: Fall, Spring

Theory and application of electromagnetic radiation at microwave frequencies; study of microwave impedance and power measurement and characteristics of microwave circuit components, and electronic devices.

EEE 214. Computer Aided Design for Microwave Circuits. 3 Units
Prerequisite(s): EEE 211 or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to design methodology of the basic building blocks of communication systems. Use of solid state devices in communications and microwave technology. Implementation of transmitter and receiver architectures. Impedance matching, S-parameters and small-signal, large-signal device operation. Design of transmitter and receiver components using a professional software tool. Design and simulations of gain and low noise amplifiers, detectors, mixers, power amplifiers and oscillators. Tradeoffs involved in the design of a complete transmitter and a receiver.

EEE 215. Lasers. 3 Units
Prerequisite(s): EEE 180 and EEE 161 or instructor permission.
Term Typically Offered: Fall, Spring

Review of electromagnetic theory. Ray tracing in an optical system, Gaussian beam propagation. Resonant optical cavities, study of excitation and lasing mechanisms in gas and semiconductor lasers. General characteristics and design of CW, Q switched and traveling wave lasers.

EEE 221. Machine Vision. 3 Units
Term Typically Offered: Spring only

Introduces the student to fundamental digital imaging processing concepts and their application to the fields of robotics, automation, and signal processing. Topics include: digital image filters, two dimensional transforms, boundary descriptors, Hough transform, automated visual inspection techniques, vision for robot control, 3-D vision, and hardware architectures to support vision.

EEE 222. Electronic Neural Networks. 3 Units
Term Typically Offered: Spring only – even years

Current neural network architectures and electronic implementation of neural networks are presented. Basics of fuzzy logic is covered. Application software will be used to simulate training. Testing of various neural net architectures. Learning strategies such as back-propagation, Kohonen, Hopfield and Hamming algorithms will be explored. A final project requires the student to design, train and test a neural network for electronic implementation that solves a specific practical problem.

EEE 225. Advanced Robot Control. 3 Units
Prerequisite(s): EEE 184 or equivalent.
Term Typically Offered: Fall only

Introduction to robot kinematics and dynamics followed by a comprehensive treatment of robot control. Topics include: independent joint control, multivariable control, force control, feedback linearization, real-time parameter estimation, and model-reference adaptive control.

EEE 230. Analog and Mixed Signal Integrated Circuit Design. 3 Units
Prerequisite(s): EEE 109 or instructor permission.
Term Typically Offered: Fall, Spring

Covers core topics and circuits important for analog and mixed-signal integrated circuits. Topics include: device structures and models, single-stage and differential amplifiers, current mirrors and active loads, operational amplifier design, stability and compensation, fully-differential circuits and common-mode feedback, noise in integrated circuits and the impact of IC processes on analog performance.

EEE 231. Advanced Analog and Mixed Signal Integrated Circuit Design. 3 Units
Prerequisite(s): EEE 230 or consent of the instructor.
Term Typically Offered: Fall only

A companion course to EEE 230, covers additional topics important in analog and mixed-signal integrated circuit design. Topics include traditional issues such as device matching and analog layout techniques, as well as important building blocks such as bandgap references and bias circuits. Also included are current-mode techniques such as high-speed current-mode logic (CML), and an introduction to noise in integrated circuits. Circuit and layout projects are assigned using CAD software.

EEE 232. Key Mixed-Signal Integrated Circuit Building Blocks. 3 Units
Prerequisite(s): EEE 230 or consent of instructor.
Term Typically Offered: Spring only

Covers key mixed-signal integrated circuit building blocks most often used in modern ICs. Topics covered include data converter fundamentals, comparators, and important circuit architectures for Analog-to-Digital Converters (ADCs), Digital-to-Analog Converters (DACs), and Phase-Locked Loops (PLLs).

EEE 234. Digital Integrated Circuit Design. 3 Units
Prerequisite(s): EEE 230 or instructor permission.
Term Typically Offered: Fall, Spring

The background and techniques needed to design and layout digital circuits at the transistor level for mixed-signal integrated circuits are covered. Topics include the design, layout and characterization of digital logic gates at the transistor level, typical CMOS process flows, device models and physics, and chip level considerations.

EEE 235. Mixed-Signal IC Design Laboratory. 1 Unit
Prerequisite(s): EEE 230 or consent of the instructor.
Term Typically Offered: Fall only

Methods to develop successful mixed-signal integrated circuits using an industrial design methodology and computer-aided design tools. Proven design techniques presented; hands-on experience gained through each student designing their own integrated circuit. Communications skills developed through periodic presentations, including reviews for the circuit architecture, design and layout.

EEE 236. Advanced Semiconductor Devices. 3 Units
Term Typically Offered: Spring only

Semiconductor device modeling, including the application of the continuity equation and Poissons equation to abrupt and graded p/n junctions, semiconductor/metal contacts, junction field effect transistors (JFET), metal-oxide-semiconductor transistors (MOSFET), and bipolar junction transistors (BJT). Special topics include compound semiconductor devices and heterostructures.

EEE 238. Advanced VLSI Design-For-Test I. 3 Units
Prerequisite(s): CPE 151 and CPE 166.
Term Typically Offered: Fall only

Focus on integrated circuit design-for-test-techniques; semiconductor reliablity factors and screening; semiconductor fabrication processes, device physics and related performance limitations; quantifying cost/quality tradeoffs; IC manufacturing flows and high-accuracy parametric test methods.

EEE 239. Advanced VLSI Design-For-Test II. 3 Units
Prerequisite(s): EEE 238.
Term Typically Offered: Fall, Spring

Advanced topics in VLSI testing and Design-For-Test applications. Memory-specific test methodology and special features of memory designs employed in high volume manufacturing for improved testability, yield, and reliability. VLSI failure modes, their detection and prevention. Application of trim, redundancy, wear-leveling, and error correction.

EEE 241. Linear Systems Analysis. 3 Units
Prerequisite(s): EEE 180 or equivalent.
Term Typically Offered: Spring only – odd years

Analyzes linear systems in the state-space. System realization and modeling, solutions of linear systems, stability including the method of Lyapunov, controllability and observability, state feedback and observers for both continuous and discrete-time systems. Familiarity with MATLAB is required.

EEE 242. Statistical Signal Processing. 3 Units
Prerequisite(s): ENGR 120, EEE 180
Term Typically Offered: Fall, Spring

Introduces the student to modern statistical approaches for solving electronic system noise problems. A few of the topics covered are: Stochastic processes, Wiener and Kalman filters, linear prediction, lattice predictors and singular-value decomposition.
Note: The knowledge of ENGR 120 and EEE 180 or equivalent courses is recommended to take this course.

EEE 243. Applied Stochastic Processes. 3 Units
Prerequisite(s): ENGR 120.
Term Typically Offered: Fall, Spring

Introduction to sequence of random variables and multivariable distributions; models of stochastic processes; stationary stochastic processes and their applications; Markov processes, Markov chains, continuous Markov chains; renewal processes; birth-death processes; time-series applications in stochastic processes in filtering, reliability and forecasting, prediction and control.

EEE 244. Electrical Engineering Computational Methods and Applications. 3 Units
Prerequisite(s): EEE 180.
Term Typically Offered: Fall, Spring

Computational methods for solving problems in engineering analysis. Topics include variational methods, finite-difference analysis, optimization methods, and matrix methods. Focuses predominantly on applications of the methods, and students are required to solve real-world, engineering problems on the computer.

EEE 245. Advanced Digital Signal Processing. 3 Units
Prerequisite(s): EEE 174, EEE 181 or equivalent.
Term Typically Offered: Fall only

Advanced signal processing topics include: multirate signal processing, adaptive filter design and analysis, spatial filtering and the application of FIR filter theory to beamforming. Applications of digital signal processing in communication systems, radar systems, and imaging systems are covered. Hardware and software topics, including current products and the incorporation of VLSI are included. Lecture.

EEE 246. Advanced Digital Control. 3 Units
Prerequisite(s): EEE 241.
Term Typically Offered: Spring only – even years

Review of digital control methods using transform techniques. State-variable representation and design of digital control systems, state-space compensators and tracking systems, polynomial equations approach, LQR and LQG discrete-time control and identification, and introduction to adaptive self-turning regulators.

EEE 249. Advanced Topics in Control and Systems. 3 Units
Term Typically Offered: Spring only – even years

Topics from recent advances in control, systems and robotics control selected from IEEE Journals and related professional publications. May be taken twice for credit.

EEE 250. Modern Power Transmission Systems. 3 Units
Prerequisite(s): EEE 142 or equivalent.
Term Typically Offered: Spring only

Characteristics of modern power transmission systems, Transmission line parameters, Steady-state, Dynamic and Transient behavior of AC/DC transmission systems, Flexible AC Transmission Systems (FACTS), High-Voltage Direct Current (HVDC) systems, Analysis of faulted transmission systems and AC/DC hybrid grids.

EEE 251. Power System Economics and Dispatch. 3 Units
Prerequisite(s): EEE 141 or equivalent.
Term Typically Offered: Fall only

Study of a number of engineering and economic matters involved in planning, operating, and controlling power generation and transmission systems in electric utilities. Effects of hydro and nuclear plants on system economics. Economic and environmental constraints. Theoretical developments and computer methods in determining economic operation of interconnected power systems with emphasis on digital computers.

EEE 252. Power System Reliability and Planning. 3 Units
Prerequisite(s): EEE 142 or equivalent.
Term Typically Offered: Spring only

Power system economics, generation, transmission and distribution reliability. Production costing and generation planning, transmission planning.

EEE 253. Control and Stability of Power Systems. 3 Units
Prerequisite(s): EEE graduate standing.
Term Typically Offered: Fall only

The fundamental concepts of control and stability in power systems. Topics include: power systems dynamics and linearized models, small and large disturbances, voltage and frequency stability. Introduction to power systems dynamic simulation for stability studies using CAD tools.

EEE 254. Large Interconnected Power Systems. 3 Units
Prerequisite(s): EEE 142.
Term Typically Offered: Spring only

Computer control, optimization and organization of large power systems. Loan and frequency control, voltage control, large load flow and contingency studies. Introduction to state estimation and load forecasting.

EEE 255. Future Power Systems and Smart Grids. 3 Units
Prerequisite(s): EEE 141, EEE 146, EEE 180, and EEE 250 or instructor permission.
Term Typically Offered: Spring only

Future power systems from component and system perspectives. Smart grids, micro-grids, and interactive power systems using renewable resources and energy storage elements. National standards for certification of distributed generation involving machine-based and inverter-based technologies. Essential elements of advanced sensing, communications and information technology and their roles in adaptive automation, control, protection, and security.

EEE 256. Advanced Power Systems Protection. 3 Units
Prerequisite(s): EEE 141; EEE 145 or instructor permission.
Term Typically Offered: Fall, Spring

Advanced concepts and schemes used in power system protection including the various protective schemes used for transmission lines, transformers, machines, and other elements of a large interconnected power system. Concepts in digital and microprocessor based relay design and analysis of typical protection subsystems, in conjunction with the protection of the power system as a whole.

EEE 257. Wind Energy Electrical Conversion Systems. 3 Units
Prerequisite(s): Fully classified graduate standing in EEE or instructor permission
Term Typically Offered: Fall only

Fundamentals of current technologies and methods in wind energy conversion systems, including turbines, generators and converters as well as control and integration of these devices in power grids. Topics include: power conversion, grid converters for wind systems, system integration, methods for power, voltage and frequency control, and wind farms simulation and aggregation methods.

EEE 259. Advanced Topics in Power Systems. 3 Units
Prerequisite(s): EEE 142.
Term Typically Offered: Spring only

Topics from recent advances in Electrical Power Engineering selected from IEEE Journal on 'Power Systems' and 'Power Systems Delivery.' May be taken twice for credit.

EEE 260. Statistical Theory of Communication. 3 Units
Prerequisite(s): EEE 185.
Term Typically Offered: Fall, Spring

Review of Fourier analysis and theory of probability, random processes, optimum filtering, performance of analog and digital communication systems in the presence of noise, system optimization.

EEE 261. Information Theory, Coding, and Detection. 3 Units
Prerequisite(s): EEE 185.
Term Typically Offered: Fall, Spring

Signal space concepts, optimum M-ary communication systems, MAP estimation of continuous waveform parameters, information theory, coding.

EEE 262. Wireless Communications Systems. 3 Units
Prerequisite(s): EEE 185 or instructor permission.
Term Typically Offered: Fall only

Wireless communication techniques, systems and standards. Topics include cellular systems, RF transmission and analog/digital modulation techniques. Modern techniques such as multiple access and spread spectrum systems. Channel coding and diversity will also be included.

EEE 264. Advanced Topics in Wireless Communications. 3 Units
Prerequisite(s): EEE 262 or instructor permission.
Term Typically Offered: Fall only

Advanced theoretical and practical aspects of modern wireless communications. Specific topics include: advanced cellular concepts, modern small-scale and large-scale propagation models, complex equalization and diversity system design, 3G (third generation) wireless networks, Bluetooth and Personal Area Networks (PANs), GPRS (General Packet Radio Service) and wireless measurement techniques.

EEE 265. Optoelectronic Engineering. 4 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Spring

Generation, propagation and detection of light. Fresnel equations, Snell's law, diffraction, polarization, and interference. Operating principles of LEDs, lasers, photodiodes, optical fibers, photovoltaic devices. Introduction to optical communications systems and optical instrumentation.
Note: EEE 265 and EEE 165 may not be both taken for graduate credit.

EEE 267. Fiber Optic Communications. 3 Units
Prerequisite(s): EEE 185 or instructor permission.
Term Typically Offered: Fall, Spring

Fundamentals of modern lightwave communication systems, sources detectors and optical fibers. Study of dispersion in Step Index, Graded Index and Single Mode Optical Fibers. Intensity Modulated Direct Detection systems (IMDD) and Coherent Fiber Optic Systems (COFOCS). Performance evaluation and design considerations. Wavelength division multiplexing, Local Area Networks, optical amplifiers and photonic switching.

EEE 270. Advanced Topics in Logic Design. 4 Units
Prerequisite(s): EEE Graduate Student Standing.
Term Typically Offered: Fall, Spring

Synchronous and asynchronous state machines. Timing issues in high-speed digital design. Design of a complex system using VHDL and Verilog Hardware Description Languages in a CAD environment. Automation toolsets to synthesize projects containing a hierarchy of modules into Field Programmable Gate Arrays (FPGAs). Simulations using CAD tools to verify the design before implementation on rapid prototyping boards in the lab. Lecture 3 hours; laboratory 3 hours.

EEE 272. High Speed Digital System Design. 3 Units
Prerequisite(s): EEE 161, fully classified graduate standing and instructor permission.
Term Typically Offered: Fall, Spring

Theoretical topics and practical applications relating to high speed digital systems. Review of basic transmission line theory, crosstalk, impact of PCB traces, vias, and connectors on signal integrity, return current paths, simultaneous switching noise, high frequency power delivery, high speed timing budgets, high speed bus design methodologies, radiated emissions, and system noise.

EEE 273. Hierarchical Digital Design Methodology. 3 Units
Prerequisite(s): EEE 64 or equivalent.
Term Typically Offered: Spring only

Hierarchical digital design course that includes: State machine design, Programmable Logic Devices, digital simulation techniques, digital interface, design with ASIC (Application Specific Integrated Circuits), programmable Gate Arrays, and designing with Gas high speed logic devices. Problems with EMI, RFI and EMC will be presented along with design guidelines. Lecture three hours.
Cross Listed: CSC 273; only one may be counted for credit.

EEE 274. Advanced Timing Analysis. 3 Units
Prerequisite(s): EEE 273, CSC 273, CPE 273 or instructor permission.
Term Typically Offered: Fall, Spring

Timing analysis of Application Specific Integrated Circuit (ASIC) designs: Topics include ASIC design methodology, static timing analysis, timing design constraints, design reports, clock timing issues, timing exceptions, operating conditions, hierarchical analysis, analyzing designs with asynchronous logic, performance measurement and power issues.
Cross-listed: CPE 274; only one may be counted for credit.

EEE 280. Advanced Computer Architecture. 3 Units
Prerequisite(s): CSC 205 or instructor permission.
Term Typically Offered: Fall, Spring

Introduces computer classification schemes, structures of uni- and multi-processor systems, parallelism in uniprocessor systems, design and performance analysis of pipelined and array processors; survey and analysis of interconnection networks and parallel memory organizations; programming issues of multiprocessor systems; and fault tolerant computing and design for testability.
Cross Listed: CSC 280; only one may be counted for credit.

EEE 285. Micro-Computer System Design I. 3 Units
Prerequisite(s): EEE 174 or CPE 185.
Term Typically Offered: Fall, Spring

Focuses on: design of the microprocessor based computer system, study of bus structures, interrupt schemes, memory interfacing, timing, bus arbitration, system architecture, data communications, introduction to multiprocessor systems, and software development.

EEE 286. Microcomputer System Design II. 3 Units
Prerequisite(s): EEE 285 or CPE 186.
Term Typically Offered: Fall, Spring

Includes PCI and PCI express bus specifications/architecture, PCI bridges transaction ordering, PCI express transactions and handshaking protocols, electromagnetic interference, methods of eliminating interference, shielding grounding, balancing, filtering, isolation, separation, orientation, cancellation techniques and cable design. Involves design projects and research presentations on PCI and PCI Express Bridge.

EEE 296C. Transients in Power Systems. 3 Units
Prerequisite(s): EEE 130 and EEE 141
Term Typically Offered: Fall, Spring

Transients in electric power systems due to shunt capacitor switching, voltage flicker and nonlinear loads such as electric arc furnaces. Lightning surges and their effect on the power system health and operation. Transformer inrush currents and motor starting. The knowledge of EEE 130 and EEE 141 or equivalent courses is required for taking this course.
Credit/No Credit

EEE 296T. Digital Speech Processing. 3 Units
Prerequisite(s): EEE 181 or instructor permission.
Term Typically Offered: Fall, Spring

The objective of this course is to cover the digital processing of speech signals. Topics include speech production and perception, speech processing in the time frequency domains. Short-time energy and Short-time Fourier analysis, homomorphic and linear predictive coding methods. Also covered are speech coding, basic introduction of text-to-speech synthesis and speech recognition.
Cross listed: CPE 296T.

EEE 299. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Open to qualified students who wish to pursue problems of their own choice. Projects must have approval and supervision of a faculty advisor.

EEE 500. Culminating Experience. 1 - 6 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator, and GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Completion of a thesis, project or comprehensive examination. Credit given upon successful completion of one of the following plans: Plan A: Master's Thesis, 5 units; Plan B: Master's Project, 2 units; or Plan C: Comprehensive Examination.

Engineering (ENGR)

ENGR 1. Introduction to Engineering. 1 Unit
Prerequisite(s): Engineering major status or instructor permission
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Engineering study skills, fundamentals of the engineering design process and problem solving, current engineering challenges. Distinctions and similarities of different engineering disciplines. The engineering profession, ethics, teamwork, communication skills. Course helps students make an informed choice of their engineering majors.
Credit/No Credit

ENGR 1A. Fundamentals of Engineering. 3 Units
Prerequisite(s): Algebra and trigonometry or instructor permission.
Term Typically Offered: Fall, Spring

Problem solving skills needed in all areas of engineering offered at Sacramento State. Exposure to the different areas of engineering, and understanding of the relationship between them. Students will work in teams and complete hands-on engineering laboratory experiments and projects. Development of effective communication skills by presenting periodic oral and written reports. Computers will be used throughout. Lecture two hours, laboratory three hours.
Note: Not for degree credit.

Credit/No Credit

ENGR 2. Robotics Explorations. 3 Units
Prerequisite(s): Algebra and Trigonometry.
Term Typically Offered: Fall, Spring

Introduction to robotics. History of robotics, recent advances in the field, common devices such as sensors and actuators. Use of modular robotic kits. Students will be assigned competition based projects.

ENGR 6. Engineering Graphics and CADD (Computer Aided Drafting and Design). 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

In-depth graphical analysis and solution of typical three-dimensional space problems by applying the principles of orthogonal projection. Fundamentals of interactive computer aided design and drafting. Preparation of engineering drawings utilizing the CAD system. Lecture two hours; laboratory three hours.

ENGR 6W. Engineering Graphics and CADD Workshop. 1 Unit
Corequisite(s): ENGR 6.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of topics in Engineering Graphics and CADD (Computer Aided Drafting and Design) to enhance students' understanding of subject matter. Not for degree credit. Technical activity and laboratory, two hours.
Credit/No Credit

ENGR 7. 3-D CAD Solid Modeling. 3 Units
Prerequisite(s): ENGR 4 or ENGR 6.
Term Typically Offered: Fall, Spring

Applications of three-dimensional representation techniques as used in a typical CAD (computer aided drafting) software package (AutoCAD). Fundamentals employed in creating, modifying, analyzing and filing engineering drawings. This course will have a mechanical emphasis. Lecture two hours; laboratory three hours.

ENGR 17. Introductory Circuit Analysis. 3 Units
Prerequisite(s): PHYS 11C, MATH 45; either the math or physics may be taken concurrently, but not both.
Term Typically Offered: Fall, Spring, Summer

Writing of mesh and node equations. DC and transient circuit analysis by linear differential equation techniques. Application of laws and theorems of Kirchoff, Ohm, Thevenin, Norton and maximum power transfer. Sinusoidal analysis using phasors, average power.

ENGR 17W. Circuits Workshop. 1 Unit
Corequisite(s): ENGR 17.
Term Typically Offered: Fall, Spring, Summer

Elaborates on fundamentals and enhances students' understanding of circuits.
Note: Not for degree credit.

Credit/No Credit

ENGR 30. Analytic Mechanics: Statics. 3 Units
Prerequisite(s): PHYS 11A and MATH 31
Term Typically Offered: Fall, Spring, Summer

Statics of particles. Equivalent systems of forces. Equilibrium of rigid bodies. Centroids, centers of gravity and forces on submerged surfaces. Analyzes trusses including use of computer programs. Analyzes frames and machines. Forces in beams including shear and moment diagrams. Friction. Moments of inertia.

ENGR 45. Engineering Materials. 3 Units
Prerequisite(s): CHEM 1E and MATH 30. CHEM 1E may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Basic principles of mechanical, electrical and chemical behavior of metals, polymers and ceramics in engineering applications; topics include bonding, crystalline structure and imperfections, phase diagrams, corrosion, and electrical properties. Laboratory experiments demonstrate actual behavior of materials; topics include metallography, mechanical properties of metals and heat treatment. Lecture two hours; laboratory three hours.
Note: Fee course.

Fee course.

ENGR 45W. Engineering Materials Workshop. 1 Unit
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of topics in materials science to enhance students' understanding of subject matter. Activity two hours.
Note: Can not be used for the degree requirement.

Credit/No Credit

ENGR 50. Computational Methods and Applications. 3 Units
Prerequisite(s): Math 30 and PHYS 11A; Physics 11A may be taken concurrently
Term Typically Offered: Fall, Spring

Computational methods for solving problems in analysis and design. Introduces lower division students to the use of computer technology for the computations required to solve real world problems in science and engineering. Includes introduction to numerical techniques, introduction to structured programming, and graphic visualization. Practical applications of analysis and design using tools such as MATLAB and C++. Emphasis is on developing confidence and skill in finding computational solutions to practical science and engineering problems. Portable computer recommended. Lecture three hours.

ENGR 60. MEP Orientation and Problem Solving. 2 Units
Term Typically Offered: Fall, Spring

Mandatory class for MEP freshman students on orientation to the University, its resources, facilities and faculty. Students will be encouraged to form a group atmosphere where they can freely interact with each other and value each other as resources. Students will be provided with instruction and materials on study skills, note taking, time management, preparing for tests and dealing with stress. Presentation by working engineers and field trips to engineering firms will be taken. Personal and professional development will also be part of the freshman orientations with leadership, public speaking and career planning being topics of discussion. Lecture one hour; activity two hours.
Note: Not for use as an engineering major technical elective and is not applicable to the baccalaureate degree.

Field trip(s) may be required.

ENGR 70. Engineering Mechanics. 3 Units
Prerequisite(s): PHYS 11A.
Term Typically Offered: Fall, Spring

Statics of particles. Equivalent systems of forces. Equilibrium of rigid bodies. Centroids, centers of mass and gravity. Analyzes trusses, frames and machines. Friction. Moments of inertia. Fundamental principles of kinematics and kinetics, study of motion and force analysis of particles and rigid bodies.

ENGR 96A. Interdisciplinary Topics in Engineering. 1 Unit
Term Typically Offered: Fall, Spring

Course will enable students to make an informed choice of their engineering majors, engage on interdisciplinary discussions between engineering fields, and equip them with relevant study skills. An introduction to engineering and the fundamentals of problem solving. Distinctions between different disciplines within engineering as well as other similarities. The engineering profession and ethics. Study skills for an engineering education.
Credit/No Credit

ENGR 105. Sustainable Design and Construction. 3 Units
Prerequisite(s): Upper division standing or instructor permission.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Strategies, analysis methods, and processes of environmentally conscious planning, design, construction, operation, deconstruction, and assessment of engineered facilities. Presents a systematic framework for problem solving, decision making, design, and construction using the principles of sustainability as guiding objectives. Tools, and techniques for gathering information, generating, analyzing, and evaluation alternatives, and developing implementation strategies are presented and demonstrated.

ENGR 106. Energy and Modern Life. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring, Summer

Our modern life is intimately and increasingly intertwined with energy utilization. This course deals with where energy comes from, how it is converted to desirable forms, where it is consumed, and what the consequences of this consumption are. In each case, historical prospective, current status, and future projections will be discussed. The ultimate objective of this course is to help students to make informed decisions on energy-related issues in their personal life and as responsible citizens of the society.

ENGR 110. Analytic Mechanics - Dynamics. 3 Units
Prerequisite(s): Student must pass ENGR 30, MATH 45, and MATH 32 or MATH 35 or MATH 100 with a minimum grade of C- or better.
Term Typically Offered: Fall, Spring, Summer

Fundamental principles of kinematics and kinetics, study of motion and force analysis of particles and rigid bodies, application to idealized structures and physical systems, introduction to free and forced vibrations.

ENGR 110W. Analytic Mechanics-Dynamics Workshop. 1 Unit
Corequisite(s): ENGR 110.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of topics in dynamics to enhance students' understanding of subject matter. Activity two hours.
Note: Can not be used for degree requirement.

Credit/No Credit

ENGR 112. Mechanics Of Materials. 3 Units
Prerequisite(s): ENGR 30; ENGR 45; MATH 45; and either CE 4 or ENGR 6 (CE 4 or ENGR 6 may be taken concurrently).
Term Typically Offered: Fall, Spring, Summer

Stresses, strains and deformations in elastic behavior of axial force, torsion and bending members, and design applications. Statically indeterminate problems. Strain energy. Column stability.

ENGR 115. Statistics For Engineers. 3 Units
Prerequisite(s): MATH 31, may be taken concurrently.
Term Typically Offered: Fall, Spring

Application of statistical methods to the analysis of engineering and physical systems. Data collection, characteristics of distributions, probability, uses of normal distribution, linear and nonlinear regression analysis, hypothesis testing, and decision-making under uncertainty.

ENGR 117W. Networks Workshop. 1 Unit
Corequisite(s): EEE 117.
Term Typically Offered: Fall, Spring

Elaborates on fundamentals and enhances students' understanding of networks.
Note: Not for degree credit.

Credit/No Credit

ENGR 120. Probability and Random Signals. 3 Units
Prerequisite(s): EEE 180; may be taken concurrently.
Term Typically Offered: Fall, Spring

Probability and random signals and their application in engineering systems. Topics include the random sample space model, concept of axiomatic probability, conditional probability, discrete and continuous random variables, probability density and distribution functions, functions and statistics of random variables, random vectors multivariate distributions, and correlation and covariance of random vectors. Applications include estimation, risk, signal detection, random signals and noise in linear systems, reliability, and estimation.

ENGR 124. Thermodynamics. 3 Units
Prerequisite(s): CHEM 1E, PHYS 11A, and MATH 32 or MATH 35 or MATH 100.
Term Typically Offered: Fall, Spring, Summer

Study of thermodynamic principles and their applications to engineering problems. Includes a study of the first and second laws, the properties of pure substances and ideal gas, gas/vapor mixtures, and an introduction to thermodynamic cycles.

ENGR 124W. Thermodynamics Workshop. 1 Unit
Corequisite(s): ENGR 124.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of topics in thermodynamics to enhance students' understanding of subject matter. Activity two hours.
Credit/No Credit

ENGR 132. Fluid Mechanics. 3 Units
Prerequisite(s): ENGR 110 (may be taken concurrently)
Term Typically Offered: Fall, Spring, Summer

Lectures and problems in the fundamental principles of incompressible and compressible fluid flow.

ENGR 140. Engineering Economics. 2 Units
Prerequisite(s): ENGR 17 or ENGR 30
Evaluation of economic consequences of engineering design proposals on projects. Emphasis on marginal or incremental economic analysis using Net Present Value, Annual Equivalence, Rate of Return and Benefit-Cost methods including multiple alternatives, taxes, uncertainty, inflation, organizational constraints and money market factors.

ENGR 150. Technical Communication. 3 Units
Prerequisite(s): Recommendation based on the results of the WPG or instructor permission
Term Typically Offered: Fall, Spring

Practical technical communication for engineers and computer scientists. Topics covered include practical technical writing, improving technical writing style, development of strategies to improve writing, oral presentations, running effective meetings, and the use of visual aids. The use of appropriate communication technology is emphasized throughout the course.

ENGR 181. Electronic Materials. 3 Units
Prerequisite(s): CHEM 1A, PHYS 11A, MATH 45.
Term Typically Offered: Fall, Spring

Basic principles of materials behavior pertaining to electronics applications. Topics include electrical conductivity, bonding, crystal structures, optical properties, magnetic properties, energy transfer, and the fundamentals of some simple electronic devices. Lecture 3 hours.

ENGR 194. Career Development Seminar. 1 Unit
Term Typically Offered: Fall, Spring

This course is designed for all ECS majors making career decisions and developing a job search strategy. Instruction will include: effective career planning strategies and techniques including skill assessment, interests, values, job search organization and strategies, goal setting, and time management as well as professional image development including interview techniques, resume writing, employment related correspondence and portfolio construction. Guest speakers from industry will be featured.
Credit/No Credit

ENGR 196B. Energy and Modern Life. 3 Units
Term Typically Offered: Fall, Spring

Our 'modern life' is intimately and increasingly intertwined with energy utilization. This course deals with where energy comes from, how it is converted to desirable forms, where it is consumed, and what the consequences of this consumption are. In each case, historical prospective, current status, and future projections will be discussed. The ultimate objective of this course is to help students to make informed decisions on energy-related issues in their personal life and as responsible citizens of the society.

ENGR 201. Engineering Analysis I. 3 Units
Prerequisite(s): MATH 45.
Term Typically Offered: Fall, Spring

Mathematical methods for the solution of advanced engineering problems. Vector analysis, tensors and matrix algebra, complex variable techniques. The applications of these methods to practical engineering problems are demonstrated.

ENGR 202. Engineering Analysis II. 3 Units
Prerequisite(s): MATH 45.
Term Typically Offered: Fall, Spring

Mathematical methods for the solution of advanced engineering problems. Solutions of ordinary and partial differential equations, Fourier series and Laplace transforms and operational calculus. The applications of these methods to practical engineering problems are demonstrated.

ENGR 203. Engineering Statistics. 3 Units
Prerequisite(s): ENGR 115 or equivalent.
Term Typically Offered: Fall, Spring

Applications of statistics to engineering problems. Collection and analysis of data, sampling methods, design of experiments, probability theory, decision theory, analysis of variance, regression analysis, and mathematical curve fitting.

ENGR 296. Experimental Methods for Fluids. 3 Units
Prerequisite(s): ENGR 132, and either MATH 32 or ENGR 202
Term Typically Offered: Spring only

Experimental methods for flow and transport phenomena are studied in the lecture and applied in the lab/field. Topics include planar laser induced fluorescence, acoustic velocimetry, and sediment transport.

ENGR 296A. Quality Management Systems for Engineers. 3 Units
Prerequisite(s): Graduate Standing
Term Typically Offered: Fall, Spring

Designed to equip students with understanding of basic terms and definitions related to quality, a brief history and basic quality concepts, understanding measurement systems and tools, understanding differences of quality control (QC), quality assurance (QA) and quality management (QM), getting familiar with the applications of different tools, systems and standards and how to select proper tools for different quality requirements. Understanding basic inspection, auditing, assessment and evaluation techniques.

English (ENGL)

ENGL 1. Basic Writing Skills. 3 Units
Prerequisite(s): Score of 146 and below on English Placement Test or credit in ENGL 15. Department approval required.
Term Typically Offered: Spring only

Prepares students for the challenging thinking, reading, and writing required in academic discourse. Uses writing as a means for discovery and reflection as well as reading as a source for ideas, discussion, and writing. Concentrates on developing expository essays that communicate clearly, provide adequate levels of detail, maintain overall coherence and focus, and demonstrate awareness of audience and purpose.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree.

ENGL 1C. Critical Thinking and Writing. 3 Units
Prerequisite(s): Grade of C- or better in ENGL 5.
Term Typically Offered: Fall, Spring

Devoted to the principles of critical thinking and the writing of argumentative essays. Focuses upon formulating defensible statements, evaluating evidence, and applying the principles of inductive and deductive reasoning.

ENGL 1X. Academic Literacies Workshop. 1 Unit
Corequisite(s): ENGL 5 or ENGL 5M or ENGL10 or ENGL 10M or ENGL 11 or ENGL 11M
Term Typically Offered: Fall, Spring

Offers instruction in elements of academic literacy so that students develop proficiency in the writing process, with a specific emphasis on drafting, planning, and revision strategies and methods. Instruction takes place in traditional classroom or hybrid setting; students, in small groups, engage in guided exploration and facilitated workshops on academic literacy strategies, such as critical reading, writing, and research strategies. Offers support for GE area A2: Written Communication; requires a co-requisite in ENGL 5, 5M, 10, 10M, 11, or 11M.
Credit/No Credit

ENGL 3. Introduction to Academic Discourse. 4 Units
Term Typically Offered: Fall, Spring

Offers students a rigorous introduction to academic discourse at the college level in the areas of critical reading, critical thinking, academic discussion, and the use of academic research. Concentrates on using expository texts as a foundation for analyzing the rhetorical strategies and effectiveness of an argument. Promotes academic discussion and fosters intellectual curiosity and collaboration.
Note: Receives baccalaureate credit.

Credit/No Credit

ENGL 3M. Introduction to Academic Discourse for Multilingual Students. 4 Units
Term Typically Offered: Fall, Spring

Offers multilingual students a rigorous introduction to academic discourse at the college level in the areas of critical reading, critical thinking, academic discussion, and the use of academic research. Concentrates on using expository texts as a foundation for analyzing the rhetorical strategies and effectiveness of an argument. Promotes academic discussion and fosters intellectual curiosity and collaboration.
Note: Receives baccalaureate credit.

Credit/No Credit

ENGL 5. Accelerated Academic Literacies. 3 Units
General Education Area/Graduation Requirement: Written Communication (A2)
Term Typically Offered: Fall, Spring

Intensive, semester-long course to help students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop metacognitive understandings of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement

ENGL 5M. Accelerated Academic Literacies - Multilingual. 3 Units
General Education Area/Graduation Requirement: Written Communication (A2)
Term Typically Offered: Fall, Spring

Intensive, semester-long course to help multilingual students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop metacognitive understandings of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.

ENGL 10. Academic Literacies I. 3 Units
Term Typically Offered: Fall only

Year-long course (combined with ENGL 11) to help students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement

Credit/No Credit

ENGL 10M. Academic Literacies I - Multilingual. 3 Units
Term Typically Offered: Fall, Spring

Year-long course (combined with ENGL 11M) to help multilingual students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement

Credit/No Credit

ENGL 11. Academic Literacies II. 3 Units
Prerequisite(s): ENGL 10.
General Education Area/Graduation Requirement: Written Communication (A2)
Term Typically Offered: Spring only

Continued study (following ENGL 10) to help students use reading, writing, discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes: read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement

ENGL 11M. Academic Literacies II-Multilingual. 3 Units
Prerequisite(s): ENGL 10M.
General Education Area/Graduation Requirement: Written Communication (A2)
Term Typically Offered: Spring only

Continued study (following ENGL 10M) to help multilingual students use reading, writing discussion, and research for discovery, intellectual curiosity, and personal academic growth - students will work in collaborative groups to share, critique, and revise their reading and writing. Students will engage in reading and writing as communal and diverse processes; read and write effectively in and beyond the university; develop a metacognitive understanding of their reading, writing, and thinking processes; and understand that everyone develops and uses multiple discourses.
Note: Writing requirement

ENGL 15. College Language Skills. 4 Units
Prerequisite(s): Score of 120-141 on the English Placement Test.
Term Typically Offered: Fall, Spring

Instruction in reading and writing skills. Focuses on the interrelationship of reading and writing, with emphasis on development, organization, and clarity of communication. Lecture three hours; lab two hours.
Note: Utilizes computers.

ENGL 16. Structure Of English. 3 Units
Prerequisite(s): ENGL 5 or equivalent.
Term Typically Offered: Fall, Spring

Introduction to the terminology and structure of traditional grammar; analysis of the standard rules for agreement, punctuation, pronoun reference, etc.; introduction to social variance with respect to usage-standard vs. non-standard; and a description of the English sound system (vowels and consonants) and its relationship to standard orthography (sound/letter correspondences) spelling rules.

ENGL 20. College Composition II. 3 Units
Prerequisite(s): Completion of ENGL 5 or ENGL 5M OR ENGL 11 or ENGL 11M or equivalent with a C- or better; sophomore standing (must have completed 30 units prior to registration).
Term Typically Offered: Fall, Spring

Advanced writing that builds upon the critical thinking, reading, and writing processes introduced in ENGL 5 and ENGL 5M. Emphasizes rhetorical awareness by exploring reading and writing within diverse academic contexts with a focus on the situational nature of the standards, values, habits, conventions, and products of composition. Students will research and analyze different disciplinary genres, purposes, and audiences with the goals of understanding how to appropriately shape their writing for different readers and demonstrating this understanding through various written products.
Note: Writing requirement

ENGL 20M. College Composition II for Multilingual Students. 3 Units
Prerequisite(s): ENGL 5 or ENGL 5M or equivalent; sophomore standing
Term Typically Offered: Fall, Spring

Advanced writing for multilingual that builds upon the critical thinking, reading, and writing processes introduced in English 5/5M. Emphasizes rhetorical awareness by exploring reading and writing within diverse academic contexts focusing on the situational nature of the standards, values, habits, conventions, and products of composition. Students will research and analyze different disciplinary genres, purposes, and audiences with the goals of understanding how to appropriately shape their writing for different readers and demonstrating this understanding through various written products.
Note: Writing requirement

ENGL 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support, as well as explore gerontological concepts needed to respond to demographic changes in today's world.

ENGL 30A. Introduction to Creative Writing. 4 Units
Term Typically Offered: Fall, Spring

Workshop for students who have had little or no experience writing fiction or poetry and who are trying to decide if they are interested in becoming writers. Over the course of the semester, students write and polish several poems and short stories which they present for critique and commentary. In addition, they study the basic elements of fiction and poetry and learn how to use these effectively in their own work.

ENGL 30B. Introduction to Writing Fiction. 4 Units
Term Typically Offered: Fall, Spring

Workshop for students who have had little or no experience writing fiction. Students write and polish several short stories which they present for critique and commentary. In addition, they study the basic elements of plot, character, description, and dialogue and learn how to use these effectively in their own fiction.

ENGL 30C. Introduction to Poetry Writing. 4 Units
Term Typically Offered: Fall, Spring

Designed for lower division students who have little or no experience writing poetry. Students will write approximately twelve poems in a variety of forms and receive instruction and practice in the workshop method. In addition, they study the basic elements of poetic craft: rhythm, enjambment, basic figures of speech, etc., and how to use them effectively in their own poetry.

ENGL 40A. Introduction to British Literature I. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Major developments in the literature of England from Chaucer through the close of the Augustan Age.

ENGL 40B. Introduction to British Literature II. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Major developments in the literature of England from the Pre-Romantics and Romantics through the 20th century.

ENGL 50A. Introduction to American Literature I. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Major developments in the literature of America from the beginnings through the Civil War.

ENGL 50B. Introduction to American Literature II. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Major developments in American Literature from the end of the Civil War to the present.

ENGL 60. Reading for Speed and Efficiency. 2 Units
Term Typically Offered: Fall, Spring

Strategies and techniques to promote greater reading efficiency and flexibility and increase reading speed. Drills to develop rate and comprehension as well as supplementary practice in the LSC reading lab.
Note: Utilizes computers; may be repeated for credit.

Credit/No Credit

ENGL 60M. Reading for Speed and Efficiency for Multilingual Students. 2 Units
Term Typically Offered: Fall, Spring

Strategies and techniques to promote greater reading efficiency and flexibility as well as to increase reading speed for college-level multilingual readers. Classroom instruction includes drills to develop rate and comprehension as well as supplementary practice in the LSC reading lab.
Note: Utilizes computers; May be repeated for credit.

Credit/No Credit

ENGL 65. Introduction to World Literatures in English. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

An introduction to world literature written in English that places writers and their works within colonial, post-colonial, and literary contexts. Texts may come from Africa, India, Southeast Asia, the Middle East, the Caribbean, Canada, and non-English Britain.

ENGL 85. Grammar for Multilingual Writers. 2 Units
Term Typically Offered: Spring only

Covers the major systems of English grammar in the context of reading passages and the students' own writing. Practice in editing authentic writing.
Note: May be repeated for credit.

Credit/No Credit

ENGL 86. College Language Skills for Multilingual Students. 4 Units
Prerequisite(s): Score of 120-141 on the English Placement Test or score of 2 or 3 on the English Diagnostic Test.
Term Typically Offered: Fall, Spring

Focuses on the interrelationships of reading and writing, with emphasis on development, organization, grammar, and clarity of communication. Lecture three hours; lab two hours.
Note: Utilizes computers.

Credit/No Credit

ENGL 87. Basic Writing Skills for Multilingual Students. 3 Units
Prerequisite(s): Score of 142-145 on English Placement Test or score of 4 on English Diagnostic Test, or credit in ENGL 86.
Term Typically Offered: Fall, Spring

Emphasizes writing and language development. Instruction in reading and essay writing, from idea generation to revision and editing.
Credit/No Credit

ENGL 90A. Modern Short Plays. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)

Term Typically Offered: Fall, Spring

ENGL 97. Introduction to Film Studies. 3 Units
Term Typically Offered: Fall, Spring

Examines cinematic techniques, styles, vocabulary, and discourses. Introduces different ways for writing about films and for working with a variety of cinematic terms. Film form and style will be studied by examining specific scenes in films from different genres, nations, and directors. Films used throughout the course will be selected from different historical periods.
Cross-listed: FILM 97.

ENGL 98. Introduction to Film Discourse and Analysis. 4 Units
Term Typically Offered: Fall, Spring

An introduction to cinematic vocabulary, film history, and film analysis. Through this introduction, students will learn how to write about and analyze film. The course prepares students for upper division work in film studies and cultural analysis. The course includes a significant research and/or creative project.

ENGL 100B. Literary Theory. 4 Units
Term Typically Offered: Fall, Spring

Designed to engage students in a productive conversation about the various theories of literature and reading that currently inform Literary Studies. Provides a historical overview of modern theory including, but not limited to, Formalism, Structuralism, Psychoanalysis, Marxism, Deconstruction, and Feminism. Students are encouraged to apply these theories to their practice of literary criticism and to assess the strengths and weaknesses of each paradigm.

ENGL 100Z. Topics in Literary Theory and Criticism. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Investigates one or more schools of literary theory or criticism and their application to works of literature and/or film.
Note: May be repeated twice for credit as long as topics vary; Writing Intensive

ENGL 105. Film Theory and Criticism. 4 Units
Term Typically Offered: Fall, Spring

Survey of film theory focusing on Auteurism, Class, Expressionism, Formalism, Genre, Gender, Narratology, Neorealism, Phenomenology, Post Structuralism, Psychoanalysis, Realism, Semiology, Structuralism and Third Cinema.

ENGL 109M. Writing for GWAR Placement-Multilingual. 3 Units
Prerequisite(s): ENGL 20 with at least a C- grade or better and have completed at least 60 semester units.
Term Typically Offered: Fall, Spring

Provides intensive practice in prewriting, drafting, revising, and editing academic writing for multilingual writers. Students research, analyse, reflect on, and write about the kinds of writing produced in academic disciplines. Students produce a considerable amount of writing such as informal reading responses, rhetorical analyses, and an extended academic research project: students will submit their writing late in the semester in a GWAR Portfolio, from which they will receive a GWAR Placement.

ENGL 109W. Writing for GWAR Placement. 3 Units
Prerequisite(s): English 20 with a C- grade or better and have completed at least 60 semester units.
Term Typically Offered: Fall, Spring

Provides intensive practice in prewriting, drafting, revising, and editing academic writing. Students research, analyse, reflect on, and write about the kinds of writing produced in academic disciplines. Students produce a considerable amount of writing such as informal reading responses, rhetorical analyses, and an extended academic research project: students will submit their writing late in the semester in a GWAR Portfolio, from which they will receive a GWAR Placement.

ENGL 109X. Writing-Intensive Workshop. 1 Unit
Prerequisite(s): Writing Placement for Juniors: student who receive a 4-unit placement on the WPJ.
Corequisite(s): Writing-Intensive upper-division course.
Term Typically Offered: Fall, Spring

Student-centered group tutorial which will offer supplemental instruction in elements of academic writing taught in writing-intensive upper-division courses; it will provide support to students concurrently enrolled in writing-intensive upper-division courses throughout the writing process, including drafting, revising, and editing, for a variety of papers.
Credit/No Credit

ENGL 110A. Linguistics and the English Language. 3 Units
Term Typically Offered: Fall, Spring

Survey of modern English and the basic concepts of modern linguistics. Students will learn how linguists view regularity in language, as exemplified by data from English. Students will also learn how English spelling is an imperfect representation of sounds, how the sound system of English operates, how words and sentences are formed and may be analyzed, how the language changes over time, space, and social setting, and how the language is learned by children and adults.

ENGL 110B. History of the English Language. 3 Units
Term Typically Offered: Fall, Spring

Survey of the linguistic and social history of the English language, tracing its growth from a minor dialect of the Germanic family to one of the most widely spoken languages of the world. Topics include structural change in the language, vocabulary growth, and variation in English around the world.

ENGL 110C. Technology in Second Language Teaching. 3 Units
Term Typically Offered: Summer only

Prepares language teachers to effectively integrate technology into classrooms. Examines theoretical rationales for using computer-assisted language learning, the range of uses of technology in classrooms, and best practice. Develops students' technological literacy and ability to critically evaluate computer-assisted language teaching materials.
Cross Listed: ENGL 210C; only one may be counted for credit.

ENGL 110J. Traditional Grammar and Standard Usage. 3 Units
Term Typically Offered: Fall, Spring

Develops a thorough understanding of basic issues in traditional English grammar and usage. It emphasizes knowledge of traditional grammar needed by single-subject credential students expecting to teach high school English. Topics include parts of speech, functions of words in sentences, phrases and clauses, and punctuation. Students will learn to apply their knowledge of grammar in composition instruction and marking essays. Students will also study use of specific grammatical features in developing rhetorical styles.

ENGL 110P. Second Language Learning and Teaching. 3 Units
Term Typically Offered: Fall, Spring

Surveys the major issues involved in the acquisition of second languages and in teaching second language (L2) students. Topics covered include differences between first and second language acquisition, including age, biology, cognitive styles, personality, sociocultural factors, and linguistic variables; in addition, various models, techniques and approaches to L2 teaching are covered. Special attention is given to the unique demographics and characteristics of language minority students in California's public schools.

ENGL 110Q. English Grammar for ESL Teachers. 3 Units
Term Typically Offered: Fall, Spring

A survey of those aspects of English grammar that are relevant to teaching second language learners of English. The emphasis is on elements of simple and complex sentences, particularly the structure of noun phrases, the meanings of verb forms, and the expression of adverbial meanings.

ENGL 116A. Studies in Applied Linguistics. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Students learn the basics of the English system of phonology and morphology. Takes an integrated approach synthesizing the issues of phonics, schemata-building, and whole language strategies in teaching reading and writing to young learners. Students will also learn the importance of first and second language acquisition for elementary school students.Evaluation will include classroom examinations, and students will also undertake a detailed case study of one child learning to read and write.

ENGL 116B. Children's Literary Classics. 3 Units
Prerequisite(s): Successful completion of at least 60 units (junior standing).
Term Typically Offered: Fall, Spring

Introduction to the rich profusion of children's literature from a variety of cultures and countries and provides the opportunity to respond to this literature creatively and personally. Students will become familiar with the basic terminology of literary analysis -- themes, irony, point-of-view, etc.-- in order to deepen and enrich their experiences with the fiction, drama, and poetry available to young people. The readings are balanced for gender, culture, and ethnic concerns.

ENGL 120A. Advanced Composition. 4 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Intensive writing workshop in which student writing is the focus. Students will engage in a writing process that will include feedback from peers and the instructor throughout the process. This writing process may occur in a variety of rhetorical situations and genres. Through reflection on their writing products and processes, students will gain an awareness of themselves as writers. By the end of the course students will complete an extensive research project and a guided project focused on academic inquiry.
Note: ENGL 120A is a requirement for English majors.

ENGL 120C. Topics in Composition. 4 Units
Prerequisite(s): ENGL 20 or ENGL 120A. GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Offers a rotating series of topics relevant to composition studies, such as technology-based writing, writing across the curriculum, critical literacy, etc. Introduces students to the theory and practice of the field under consideration. Regardless of the topics, students will explore the major scholarly works of the field and produce writing that analyzes and utilizes the concepts in the area under consideration.
Note: May be repeated for credit as long as topic differs.

ENGL 120P. Professional Writing. 4 Units
Prerequisite(s): ENGL 20 or ENGL 120A. GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Teaches students the most common professional writing genres used in career fields ranging from business to public relations to nonprofit management. Focuses on how business or technical communication is different from academic styles and introduces students to the current writing challenges and practices in these fields. Students will gain instruction and practice composing various essential writing formats, such as memos, reports, and feasibility studies.

ENGL 120R. Topics in Rhetoric. 4 Units
Prerequisite(s): Complete ENGL 20 or ENGL 120A; GWAR certification before Fall 2009; or WPJ score of 80 or above; or 3-unit placement in ENGL 109M/W; or 4-unit placement in ENGL 109M/W + co-enrollment in ENGL 109X; or WPJ score 70/71 + co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Offers a rotating series of topics relevant to rhetorical studies, such as digital rhetoric, cultural rhetorics, contemporary rhetorical theories, etc. Introduces students to the theory and practice of the field under consideration. Regardless of the topic, students will explore the major scholarly works of the field and produce writing that analyzes and utilizes the concepts in the area under consideration.
Note: May be repeated for credit as long as topic differs.

ENGL 120S. Writing in the Social Sciences. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Introduces principles of analyzing and composing texts appropriate for various social science disciplines. Provides practice in analyzing texts in social science journals and in writing abstracts, summaries, and literature reviews. Appropriate for upper-division undergraduate students and beginning graduate students in TESOL and in other social science programs (e.g., psychology, sociology, anthropology, etc.)

ENGL 120X. MLA and APA Style Guides. 1 Unit
Corequisite(s): ENGL 120A, ENGL 198T, a Writing Intensive course, or instructor permission.
Term Typically Offered: Fall, Spring

Students will learn how to format papers, cite sources, and integrate in-text citations into their work according to MLA and APA formatting and style guides.

ENGL 121. Writing Center Tutoring. 1 Unit
Term Typically Offered: Fall, Spring

One-on-one tutoring in reading and writing at the University Writing Center. Student writers will meet with assigned tutor an hour a week. Topics could include understanding assignments, prewriting, revising, reading strategies, editing strategies, integrating research, etc. Students must sign up for a regular tutoring session time during week two of the semester at the University Writing Center.
Note: May be repeated for credit.

Credit/No Credit

ENGL 125A. Literature and Film for Adolescents. 4 Units
Prerequisite(s): ENGL 20 or ENGL 120A and COMS 104 or COMS 4
Term Typically Offered: Fall, Spring

Provides prospective secondary school English teachers with an opportunity to think through important issues related to the planning and implementation of literature programs for adolescents. Equal emphasis will be given to the study of poetry, fiction, non-fiction, drama, and film. The focus will embrace literature from a variety of cultures and periods.

ENGL 125B. Writing and the Young Writer. 3 Units
Prerequisite(s): ENGL 20 or ENGL 120A; and ENGL 110J or ENGL 110Q or ENGL 16
Term Typically Offered: Fall, Spring

Provides an introduction to teaching writing in high school and operates on the assumption that the need for and impact of writing competence for students is interdisciplinary and pervasive. The class has a workshop format, and students will practice many of the strategies studied. The texts will cover theoretical issues in teaching composition and practical methods of implementing theory in public school classrooms.

ENGL 125E. Academic Reading and Writing for Second Language Students. 3 Units
Term Typically Offered: Fall, Spring

Helps prospective teachers to better understand the unique needs of second language students. Covers second language acquisition theory with particular emphasis on the teaching of reading and writing for academic purposes. Practical skills covered will all focus on the particular needs of second language readers and writers, for instance, how to help them to read more efficiently and with greater comprehension, how to write more fluently and accurately in ways that meet the needs and expectations of the academic discourse community.

ENGL 125F. Teaching Oral Skills. 3 Units
Term Typically Offered: Fall, Spring

Provide students with both the necessary background knowledge as well as the specific pedagogical tools for promoting proficiency in spoken interaction, listening skills, and pronunciation in second language/foreign language contexts, specifically, English as a Second Language (ESL) and English as a Foreign Language (EFL).

ENGL 130A. Intermediate Fiction Writing. 4 Units
Prerequisite(s): ENGL 30A or ENGL 30B
Term Typically Offered: Fall, Spring

Workshop for students who already have some experience writing short stories. Students write and polish several stories which they present for critique and commentary. They also take an in-depth look at the theory and craft of fiction-writing, analyze the stories of contemporary writers from diverse ethnic and cultural backgrounds, and learn how to apply what they have learned to their own writing.

ENGL 130B. Intermediate Poetry Writing. 4 Units
Prerequisite(s): ENGL 30A or ENGL 30C.
Term Typically Offered: Fall, Spring

Designed for students interested in developing their poetic expression beyond the basics covered in ENGL 30A and ENGL 30C. Emphasizes practice and experimentation with meters, verse forms, and figures of speech. Focal points for analysis and discussion will be poems and essays by contemporary poets of various aesthetic orientations, as well as work produced by members of the class.

ENGL 130C. Special Topics in Poetry Writing. 0 Units
Prerequisite(s): ENGL 30A or ENGL 30C.
Term Typically Offered: Fall, Spring

Provides students with further opportunity to refine their poetic craft beyond the levels achieved in 30C and 130B. Emphasizes further experimentation with meters, verse forms, and figures of speech as well as questioning the 'rules' of poetry and encouraging students to blur or defy the boundaries of genre. Focal points for analysis and discussion will be poems and essays by contemporary poets of various aesthetic orientations, as well as work produced by members of the class.

ENGL 130D. Meter and Rhythm. 4 Units
Term Typically Offered: Fall, Spring

Offers an in-depth study of prosody including the principles of meter (line measurement) and scansion (the marking of stressed syllables to determine meter and rhythm), as well as examining the relationship of these principles to verse in English. Examines a variety of poetic schemes, tropes, and forms. Three hours, lecture and guided practice.

ENGL 130F. Writing For Television. 4 Units
Term Typically Offered: Fall, Spring

Focuses on training students in video literacy and script writing for the video explosion: educational media, documentaries, and interactive programs.

ENGL 130G. Between Genres: Flash Fiction/Prose Poetry. 4 Units
Term Typically Offered: Fall, Spring

Offers undergraduate poets and fiction writers the opportunity to explore/experiment with the long-standing anti-genre of the poetry/fiction hybrid. For 200 years writers around the world have noted the symbiosis between the genres of poetry and prose. Currently, some of America's most exciting writers are currently exploring the margins between prose poetry, flash fiction, and related evolving forms. Prerequsite: ENGL 30A, ENGL 30B, or ENGL 30C.

ENGL 130J. Writing Feature Film Scripts. 4 Units
Term Typically Offered: Fall, Spring

Workshop designed for students who have little or no previous experience writing for the screen. Students write the synopsis, treatment, and part of the master scene script for a feature film, all of which are polished and revised in a workshop setting. Special attention is given to the dynamics of plot, characterization, and dialogue with an emphasis on the difference between writing for film and writing other kinds of fiction.

ENGL 130M. Art of Autobiography. 4 Units
Prerequisite(s): At least a C- grade in ENGL 30A or 30B, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Students keep a journal and write several drafts of an autobiographical essay which they present for critique and commentary. They also read and analyze several biographies and journals by writers from diverse ethnic and cultural backgrounds.

ENGL 130N. Creative Non-Fiction. 4 Units
Prerequisite(s): ENGL 30A or ENGL 30B.
Term Typically Offered: Fall, Spring

Students write several non-fiction pieces which may include (but are not limited to) autobiography, memoir, nature-writing, travel writing, and literary memoir. Students need not previously have had fiction-writing experience to take this course, but they must be prepared to write literary non-fiction of high quality.

ENGL 130W. Advanced Poetry Writing. 3 Units
Prerequisite(s): ENGL 30A or ENGL 30C
Theory and practice in the writing of poetry at the advanced level. Consists primarily of the preparation and evaluation of student work. Students arc also assigned supplemental readings designed to help them determine their affinity (or lack of affinity) with current poetic theory and practice.

ENGL 130Y. Creative Writing for Young Audiences. 4 Units
Term Typically Offered: Fall, Spring

In this creative writing course students will learn how to write children's literature in a wide array of genres, including picture book texts, early readers, poetry, and middle grade and young adult novels. The course will give an overview of these genres and through portfolio assignments allow students to sample different genres and gain expertise in one particular genre. Prerequisite ENGL 30A or ENGL 30C or ENGL 30B

ENGL 140A. Introduction to Old English. 4 Units
Term Typically Offered: Fall, Spring

Study of the grammar of Old English with particular attention to its survival in the modern language. Shows students how to use their instincts as native speakers of Modern English to acquire a good working sense of the original form of the language. Readings in biblical and historical texts will be supplemented by an introduction to Old English paleography which will allow students to access literature in the original.

ENGL 140B. Medieval Literature. 4 Units
Term Typically Offered: Fall, Spring

Survey of English literature from 1100 to 1500. Students will read texts from the various genres of Middle English literature--romance, lyric, ballad, lay, drama, history--in the dialects of origin. Focuses on how medieval thought both differs from and anticipates modern thought.

ENGL 140C. The English Renaissance. 4 Units
Term Typically Offered: Fall, Spring

The early modern period was a time of exploration, experimentation, and creativity during the sixteenth and early seventeenth centuries in England. The writers of the age include Queen Elizabeth I, Lady Mary Wroth, Sir Thomas Wyatt, Sir Philip Sidney, William Shakespeare, Christopher Marlowe, Edmund Spenser, John Donne, Aemilia Lanyer, and John Milton. In this course, students will explore and analyze representative works by these writers and others, making connections between the writers and the cultural context in which they lived.

ENGL 140E. Restoration & Eighteenth-Century Drama. 4 Units
Term Typically Offered: Fall, Spring

In-depth examination of the drama of late 17th and 18th-century England. Course includes the study of the age itself, the social and political issues of the time as well as its dramatic art, including many of its comedies, which the course it examines in their historical and cultural contexts.

ENGL 140F. British Literature, 1660-1780. 4 Units
Term Typically Offered: Fall, Spring

A period survey of British literature from the Restoration of King Charles II in 1660 through the stirrings of British Romanticism in the last decades of the eighteenth century. Authors to be covered will likely include Dryden, Behn, Rochester, Finch, Swift, Pope, Gay, Montagu, Addison & Steele, Gray, Johnson, Equiano, Goldsmith, and Sheridan.

ENGL 140G. The Eighteenth-Century British Novel. 4 Units
Term Typically Offered: Fall, Spring

The novel as we know it today was invented in the 18th century. Students study the cultural origins of the novel and read several major works by of 18th-century novelists such as Daniel Defoe, Samuel Richardson, Henry Fielding, Fanny Burney, Ann Radcliffe, Laurence Sterne, and Jane Austen, among others.

ENGL 140H. Nineteenth-Century Novel. 4 Units
Term Typically Offered: Fall, Spring

Devoted to exploring the fiction of nineteenth-century British novelists from Jane Austen through Thomas Hardy. Particular attention is paid to prevalent genres, especially the mixing of romance and realism, narrative and plot structures, imagery patterns, character types and anti-types, and thematic concerns, which usually involve some sort of conflict between the self and society, the individual and institutions (or the environment).

ENGL 140I. British Romanticism. 4 Units
Term Typically Offered: Fall, Spring

Examines British literature and culture during the late eighteenth and early nineteenth centuries. Topics may include war and revolution, tourism and the picturesque, genius and imagination, the Gothic, Romanic orientalism and literature and the environment. Writers covered may include Smith, Blake, Wollstonecraft, the Wordsworths, Scott, Coleridge, Austen, de Quincey, Byron, the Shelleys, Hemans and Keats.

ENGL 140J. The Victorian Imagination. 4 Units
Term Typically Offered: Fall, Spring

Explores themes and forms of the Victorian period, stressing the evolving role of the artist and the growth of self-consciousness in verse and prose. Victorian themes like the divided self, the love-duty conflict, and the inevitable crises of faith are recurring problems in the obsessive Victorian debate between flesh and spirit. Analyzes this dialectic in the poetry of Browning, Tennyson, the Pre-Raphaelites and Decadents, in a representative novel, and in the prose of Ruskin, Mill, and Pater.

ENGL 140K. Modern British Literature, 1900-Present. 3 Units
Term Typically Offered: Fall, Spring

In-depth examination of some of the important British texts in fiction, poetry, and drama from 1900 to the present. The works dramatize the important historical, social and aesthetic changes in a century which saw the collapse of the British Empire, the spread of democracy, the rise of Modernism and the Absurd in the arts, and the continuing struggle of the personal statement in an impersonal world.

ENGL 140L. Modern British Fiction, 1900-Present. 4 Units
Term Typically Offered: Fall, Spring

Survey of British fiction from 1900 to the present which covers the struggle between traditional Realism and Modernism in the novel, the decline and fall of the British Empire and the rise of the former colonies as purveyors of fictions in English in their own right, and the development of new experimental forms in the last decades of the 20th century.

ENGL 140M. Modern British Drama, 1889-Present. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

In-depth examination of British drama from the arrival of Ibsen's A Doll¿s House on the British stage (and Shaw's publication of his influential treatise The Quintessence of Ibsenism), both laying to rest for serious artists the moralistic, bourgeois theater of the late 19th century. Includes study of various dramatic movements in Britain¿including realism, absurdism, kitchen-sink naturalism, surrealism, epic theater, expressionism.

ENGL 140R. Renaissance Drama. 4 Units
Term Typically Offered: Fall, Spring

Readings in and analysis of English drama written in the period, roughly, from 1500-1660. Provides a survey of playwrights and genres from the entire period or a focus on a particular theme or a grouping of authors. Students will study texts as well as the historical, political, cultural, social, sexual, and religious contexts in which the playwrights of the era composed their works.

ENGL 140Z. Studies in British Literature. 4 Units
Term Typically Offered: Fall, Spring

Topics in periods and movements in the literature of Britain. Course may focus on a limited period (e.g. The Edwardian Age), a single author (e .g. Anthony Trollope or Margery Kempe), an authorial dialogue (e.g. Shakespeare and Wilde or G.M. Hopkins and Christina Rossetti), or a unique literary feature, theme, or structure (e.g. the Sonnet or Literature and the Law).

ENGL 141A. The Essential Shakespeare. 4 Units
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Exploration of Shakespeare's most representative works. The course syllabus usually includes his sonnets and non-dramatic poetry as well as plays from both early and later periods of his career. Class discussions will include Shakespeare's typical themes, conventions, and techniques, his development of character and situation, and his relationship to the culture and values of both his own and subsequent ages.

ENGL 141B. Shakespop: Shakespeare and Popular Culture. 3 Units
Term Typically Offered: Fall, Spring

The works of William Shakespeare circulate in our culture in a wide variety of ways - in music, art, dance, film, television, advertising, management manuals, self-help books, etc. sometimes staying close to the original texts and at other times barley skimming the surface for cultural capital. This course will examine the dynamic relationships between Shakespeare in its diverse forms and popular culture by examining various instances of Shakespearean appropriation and adaptation. Themes include Shakespeare in Love, War, Business, and Youth Culture.

ENGL 145A. Chaucer - Canterbury Tales. 4 Units
Term Typically Offered: Fall, Spring

Reading of The Canterbury Tales in Middle English. Chaucer's great unfinished poem will be investigated as the pinnacle of literary achievement in the English Middle Ages, a work that attempts, like Dante's Divine Comedy, to account for all the issues and problems of human life as medieval thinkers had come to regard them.

ENGL 145B. Shakespeare - Early Plays, 1592-1600. 3 Units
Term Typically Offered: Fall, Spring

Exploration of representative plays from roughly the first half of Shakespeare's career as a dramatist, including early and middle comedies (e.g., A Midsummer Night's Dream, As You Like It), early and middle tragedies (e.g. Richard II, Henry IV, Part One), while situating the plays within their cultural and historical context.)

ENGL 145C. Shakespeare - Later Plays, 1600-1612. 3 Units
Term Typically Offered: Fall, Spring

Exploration of representative plays from roughly the second half of Shakespeare's career as a dramatist, with emphasis on the major tragedies (Hamlet, Othello, King Lear, and Macbeth), but also including the middle comedies (e.g., Twelfth Night, Measure for Measure) and the later romances (e.g., The Winter's Tale, The Tempest), while situating the plays within their cultural and historic context.

ENGL 145I. John Milton. 3 Units
Term Typically Offered: Fall, Spring

Students study the major poems of Milton-among them Comus, 'Lycidas,' Paradise Lost, Paradise Regained, and Samson Agonistes-giving special attention to Paradise Lost. Students will also consider such prose works as Of Education, the divorce tracts, and Areopagitica, Milton's famous argument against censorship. Finally, it includes lectures on the Puritan Revolution of 1640-60 and Milton's role in it.

ENGL 150A. Early American Literature. 4 Units
Term Typically Offered: Fall, Spring

Focusing on the literature of early American settlement, the literature that first defined our nation. Students analyze such works as oral literature of Native America, earliest writings of Spanish explorers, Puritan settlement literature, Captivity Narratives of the 17th through 19th centuries, Witchcraft Narratives, and Slave Narratives. Students might also study connections to later works (e.g., Puritan literature and Hawthorne's Scarlet Letter, Witchcraft narratives and Miller's The Crucible).

ENGL 150B. American Romanticism. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on one of the great periods in the history of literature. It has appropriately been called the American Renaissance. Writers covered might include but not be limited to Poe, Hawthorne, Emerson, Thoreau, Fuller, Melville, Whitman, Dickinson.

ENGL 150C. American Realism. 3 Units
Term Typically Offered: Fall, Spring

Examines American literature written during the period after the Civil War, a time of unprecedented change that transformed America from rural, agricultural, and homogeneous culture into its urban, industrial, heterogeneous counterpart. It investigates how the literature of this period reflected these changes and simultaneously tried to reconcile them with the values of an earlier America. The magnitude of this endeavor produced a remarkable literary heritage for the 20th century.

ENGL 150D. American Modernist Fiction, 1910-1950. 4 Units
Term Typically Offered: Fall, Spring

Survey of the important historical movements and conflicts in American literature, including the development of Realism and Naturalism, the experimental Modernist movement of the twenties, the populist literature of the thirties and the development of psychological realism in the forties.

ENGL 150E. American Poetry, 1910-1950. 4 Units
Term Typically Offered: Fall, Spring

Many scholars argue that American literature's greatest achievement in the twentieth century literature is in the genre of poetry. Offers a survey of such movements as the 'New Poetry,' Modernism, Imagism, Primitivism, and Postmodernism. Major figures will include, but not be limited to, Robinson, Frost, Eliot, Pound, Millay, Cummings, Stevens, W.C. Williams, Jeffers, Moore, and Hughes.

ENGL 150F. Contemporary American Fiction, 1950-Present. 3 Units
Term Typically Offered: Fall, Spring

Surveys American fiction in the decades immediately following World War II. These novels deal with themes such as exhaustion, social unrest, historical conspiracy, and political coercion. Representative figures include, but are not limited to, Ralph Ellison, John Barth, Philip Roth, Joan Didion, Thomas Berger, Vladimir Nabokov, Marilynne Robinson, Thomas Pynchon.

ENGL 150G. Contemporary American Poetry, 1950-Present. 4 Units
Term Typically Offered: Fall, Spring

Examines the richness of American poetry since World War II giving some consideration to the impact of recent world poetry brought to us by our skillful poet/translators.

ENGL 150H. Recent American Fiction, 1980-Present. 4 Units
Term Typically Offered: Fall, Spring

Introduction to the remarkable flowering of American fiction in the late decades of the twentieth century. The primary focus is to scrutinize a collection of novels for which there is no firmly established critical opinion but which are nonetheless distinguished fictional accomplishments. Emphasis is placed on revealing the diversity of voices and the ways in which these writers demonstrate the continuing possibilities for artistic variety and experimentation.

ENGL 150I. Modern American Short Story. 4 Units
Term Typically Offered: Fall, Spring

Since the publication of Washington Irving's 'Legend of Sleepy Hollow,' Americans have excelled at the genre of the short story. Offers a survey of traditional 'masters' and recent innovators. Provides an opportunity to read a wide variety of writers (such as Wharton, Chopin, Crane, Gilman, James, Anderson, Hemingway, Faulkner, Ellison, O'Connor, Barth, Oates, Proulx, Roth, Carvey, and Welty) , and examine a range of forms, themes and experiences that reflect and shape American culture.

ENGL 150J. Twentieth-Century American Drama. 4 Units
Term Typically Offered: Fall, Spring

In-depth examination of American drama, starting with Eugene O'Neill. Traces American drama from the early decades of the 20th century to the present, examining the plays themselves¿their themes, dramatic idioms, stage craft and European influences¿in their social, historical and artistic contexts.

ENGL 150L. Lost Generation Writers. 4 Units
Term Typically Offered: Fall, Spring

Examines one of the most remarkable flowerings of literary achievement in American letters, the writing of 'The Lost Generation,' authors born between 1885 and 1900. Unified by a profound disillusionment with American culture after World War I, writers such as T.S. Eliot, Eugene O'Neill, William Faulkner, and Ernest Hemingway produced enduring modern masterpieces. In the process they demonstrated that their generation might find in art what had been lost on the battlefield.

ENGL 150M. California Literature. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the California phenomenon¿the place where the American Dream strives to reach fulfillment 'because here,' according to Sacramento-native Joan Didion, 'beneath that immense bleached sky, is where we run out of continent'¿and how this phenomenon has captivated writers for centuries. Presents a cross-section of literary works (fiction, poetry, essays, etc.) while examining and interrogating various literary manifestations of California golden myths and grayer realities.

ENGL 150P. The American Gothic. 4 Units
Term Typically Offered: Fall, Spring

Explores American works written in the Gothic mode. In novels, captivity narratives, short stories, and poetry, we will investigate representations of terrifying, uncanny, and supernatural phenomena. As we trace the development of the Gothic mode in American literature, we will examine how narratives and poetic depictions of horror rehearse our individual and cultural fears about sexuality, race, violation, rebellion, madness, and death, and we will inquire into that thrill of macabre pleasure that attends the exploration of the darker side.

ENGL 150R. American Regionalism. 4 Units
Term Typically Offered: Fall, Spring

Examines literature by American regionalist writers during the late-nineteenth century. Topics may include nationalism, sectional divides, local color, dialect fiction, conditions of publication, and emerging women writers and writers of color. Students will investigate the role that regionalism plays in relation to literary representations that depict the conflicting and complex social, cultural, and historical formation of racialized and gendered identities. Independent-online project required.

ENGL 155E. Hemingway and Fitzgerald. 4 Units
Term Typically Offered: Fall, Spring

Intensive study of two of the most important American writers of the 20th century: Ernest Hemingway and F. Scott Fitzgerald. This focus on two authors allows students to read them in-depth, to examine the dynamics of their friendship, and to explore the similarities and differences in their responses to World War I and the Great Depression.

ENGL 165A. A Survey of Irish Literature. 3 Units
Term Typically Offered: Fall, Spring

Survey of Irish literature, beginning with various myths, moving through the bardic period and eighteenth and nineteenth centuries, and then centering upon the 'Irish Renaissance' (1885-1940).Covers the genres of poetry, drama, and fiction, and representative figures include W.B. Yeats, Patrick Kavanagh, James Joyce, Flann O'Brien, John Synge, Lady Gregory, Sean O'Casey, Sean O'Faolain, and Frank O'Connor.

ENGL 165D. Postcolonial Literature. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Deals with the considerable body of Postcolonial literature written in English. Many of the writers come from countries of the former British Commonwealth, including Achebe, Desai, Emccheta, Naipaul, and Rushdie. It focuses on the literary, cultural and political environments in which the texts are situated and on their relationship to the wider tradition of literature in English.

ENGL 165F. Caribbean Literature. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the literature--novels, shorts stories, poetry, and plays--by a wide range of Caribbean authors, among whom are two recent Nobel Prize winners, Derek Walcott and V. S. Naipaul. Students will learn to appreciate the cultural diversity of this post-colonial literature and will become familiar with its important themes and stylistic techniques. Students will also experience the multi-dialectal richness and flavor of the Anglophone Caribbean as expressed by authors from linguistically diverse islands.

ENGL 170A. Fantasy. 4 Units
Term Typically Offered: Fall, Spring

Helps students develop their own working definition of fantasy by examining its central narrative and dramatic structures, image patters, and thematic preoccupations. At the same time, encourages students to compare these motifs with those of so called 'realist' fiction so they may understand how blurred conventional distinctions between 'fantasy' and 'reality' actually are.

ENGL 170D. Drama. 4 Units
Term Typically Offered: Fall, Spring

Offers a survey of dramatic literature¿tragedy, comedy, tragi-comedy¿with plays both modern and classical. Focus is on analysis of genre, theme, structure, and interpretation of the plays. Since plays are meant to be seen as well as read, we will screen selections from our plays to deepen our understanding and enjoyment.

ENGL 170E. Short Fiction. 4 Units
Term Typically Offered: Fall, Spring

Survey of the art of short fiction through readings of a variety of world writers. Representative figures include, but are not limited to, Melville, James, Chopin, Maupassant, Chekhov, Saki, Cather, Joyce, Kafka, Dinesen, Hemingway, Borges, O'Connor, Munro, Carver, Everett, Lahiri, etc.

ENGL 170G. Modern Poetry. 4 Units
Term Typically Offered: Fall, Spring

General course in English language poetry written in the late 19th and early 20th century poetry, a period of great innovation in poetry. It focuses on approach: what is the modern poem and how does one read it? Emphasis is placed on the function of image, voice, line break, rhythm, etc. Writers might include Whitman, Dickinson, Yeats, Pound, Eliot, Hardy, and Hopkins.

ENGL 170H. Introduction To Comedy. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Focuses on various comic genres and theories--from 4th century BC to the present. It examines romantic comedy, tragicomedy, comedies of manners, of humors, of menace; farce, satire, slapstick. Students also read widely in comic theory, examining aspects psychological, phenomenological, aesthetic--in drama, fiction, poetry and prose.

ENGL 170I. Introduction To Tragedy. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on the literatures and theories of tragedy--from 5th century BC to the present--from Sophocles to Mamet, from Flaubert to Stoppard. It examines the 'tragic vision' in light of individual genres, times, social mores, religious beliefs and expectations, using Aristotle for both its touchstone and lodestar.

ENGL 170K. Masters of the Short Story. 4 Units
Term Typically Offered: Fall, Spring

Concentrates on the works of a few distinguished writers of short fiction. In each case the writer is one with a widely acknowledged reputation. Emphasis is upon exploring how writers shape and manipulate the genre to produce lasting, individual, distinctive works. Representative figures include, but are not limited to, James Joyce, Nathaniel Hawthorne, Sherwood Anderson, Ernest Hemingway, Frank O'Connor, Flannery O'Connor, John Barth, D.H. Lawrence, and Eudora Welty.

ENGL 170M. Literatures Of Sexuality. 4 Units
Term Typically Offered: Fall, Spring

Examines the relation between sexuality and literature, exploring different conceptions of sexuality over time and across cultures and the rhetorical strategies employed in representations of sexuality in literary texts. Topics may include the modern connection between sexuality and identity; the links between nation, race, and sexuality; and the treatment of homosexuality and women's sexuality. Throughout, careful attention will be paid to the literary forms and discursive strategies (e.g., the confessional mode, modern scientific discourses) used to represent sexuality.

ENGL 170N. Narrative Poetry. 4 Units
Term Typically Offered: Fall, Spring

Provides an introduction to the genre of narrative poetry, a historical survey of the vicissitudes of its reception from the nineteenth century to the present, and a close study of representative narrative poems by poets who have excelled in this mode.

ENGL 170Z. Twentieth-Century Fiction. 4 Units
Term Typically Offered: Fall, Spring

Study of twentieth-century fiction from a variety of ethnic and social backgrounds, including and moving beyond British Modernism. Readings explore English as a literary language used across the globe, ranging from Paris to Mazatlán, Calcutta to San Francisco.

ENGL 180A. Forms of African-American Poetry. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on four or more African-American poets, representing a historical succession of literary periods.

ENGL 180B. Forms of African-American Fiction. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Focuses on four or more African-American writers of fiction, surveying texts representing a historical succession of literary periods.

ENGL 180F. Major African-American Authors. 4 Units
Term Typically Offered: Fall, Spring

Employing a lecture-discussion format, involves studies in a single literary genre or a combination of literary genres emphasizing the work of three or fewer African-American authors.

ENGL 180H. American Identities: In the Intersection of Race, Gender, and Ethnicity. 4 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Uses a team-teaching approach to sample a range of diverse American literatures. Texts are selected by the team to represent both mainstream and marginalized groups and to reflect the individual professors' interests and expertise. Examines the commonalities that cross ethnic, racial, class, and gender boundaries as well as the differences that enrich our cultural identity. Independent, online project required.

ENGL 180J. Jewish American Literature. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Students will examine a rich tradition of Jewish American literature in the context of a complex American multicultural narrative. Topics include the immigrant experience, assimilation, alienation, responses to the Holocaust and other forms of anti-Semitism, the place of Israel in the Jewish American imagination, and a contemporary rediscovery of reconstruction of Jewishness and Judaism. Students will interrogate what constitutes Jewish American identity and defines its literature in a culture that is itself conflicted about its secular/religious ethos and the degree to which subjectivity is determined by 'consent and/or descent.'

ENGL 180L. Chicano Literature. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Gives students an overview of Chicano Literature. Students examine both contemporary Chicano poetry and fiction.

ENGL 180M. Asian American Literature. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Designed to help students gain an understanding of the diversity as well as the similarities among various Asian American writers. How do the categories of race, gender, and class affect the way different characters construct their cultural experiences and fashion their personal identities? By studying the variety of processes through which different protagonists 'become American'--through assimilation, appropriation, or 'translation'--students should arrive at a better understanding of how we all construct our own identities.

ENGL 180Z. Topics in Multi-Ethnic Literatures. 4 Units
Term Typically Offered: Fall, Spring

Comparative analysis of two or more ethnic literary and cultural productions with an emphasis on relationships among history, politics, and culture in American, British, or World literatures.
Note: May be repeated twice for credit as topics vary.

ENGL 185B. Twentieth Century Fiction by Women. 4 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Covers short stories and novels spanning the century and including women writers from a variety of nationalities, class, cultural and ethnic groups. Emphasizes what Virginia Woolf calls 'the delicate transaction between a writer and the spirit of the age' and works with the writers presented so as to elicit the developing strands of influence and critique that bring these disparate writers into a common dialogue.

ENGL 185C. British Women Novelists. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the ways in which women writers of the 19th and 20th centuries concern themselves with questions of the differences in male and female experience and how those differences affect their writing. Students will study the portrayal in fiction of the evolution of the 'modern woman'--with the conflicts between self and other, dependence and independence, love and power that are part of that process.

ENGL 185D. American Women Writers. 4 Units
Term Typically Offered: Fall, Spring

Focuses on women writers primarily from the early 20th century with an emphasis on how gender expectations affect people, society, novels, poems. Students study the theme of awakening, the roles that families, friends, class, social expectations and conditions play in the development of individuality and self-awareness. Examines implications of power relationships and certain areas of conflict, such as those between self and other, repression and expression, inner and outer, dependence and independence, love and power.

ENGL 190D. Detective Fiction. 4 Units
Term Typically Offered: Fall, Spring

Readings in and analysis of crime and detective fictions (novels, short stories, plays, etc.). Crime fiction continually asks us what do we know about people and events and how do we know it. Investigates a variety of texts that address this desire to know and its connections to the mysterious and the criminal. Discussions of this popular genre will address the ways in which an obsession with crime and punishment manifests itself in various cultures and cultural moments.

ENGL 190H. The Supernatural in Literature. 4 Units
Term Typically Offered: Fall, Spring

Approaches supernatural literature from the perspective that, regardless of how bizarre or fantastical a literary work may seem, it deserves serious scholarly study because it represents the realism of apparent human experiences and provides readers with access to the inner workings of the human mind. Readings include Ambrose Bierce, H.P. Lovecraft, Edgar Allan Poe, Lord Dunsany, Fitz-James O'Brien, and contemporary writers from around the world.

ENGL 190J. Tolkien:Lord Of The Rings. 4 Units
Term Typically Offered: Fall, Spring

Helps students understand the primary structures, images, and themes informing Tolkien's Middle Earth and the ways these link the medieval worldview with modern, and even postmodern, wish-and fear-fulfillments. Students will read Tolkien's criticism, poetry, short tales, The Hobbit, The Lord of the Rings trilogy, and selections from The Silmarillion.

ENGL 190P. Popular Literature and Culture. 4 Units
Term Typically Offered: Fall, Spring

The study of popular texts through the various lenses of literary analysis. Students will work with a variety of texts, which might include genre fiction, graphic novels and comics, film and television, and other digital media, to consider the ways and whys of their popularity, as well as their impact, both historical and contemporaneous, on literature, audience, and culture.

ENGL 190Q. LGBTQ Literature. 4 Units
Term Typically Offered: Fall, Spring

Readings in and analysis of literature by and about lesbian, gay, bisexual, transgender, and queer creators. Students will work with a variety of texts (fiction, poetry, film, nonfiction) about LGBTQ identities; students will also come to understand the historical contexts and shifting theoretical paradigms that have shaped and reshaped conceptions of sexuality.

ENGL 190R. Romance Fiction. 4 Units
Term Typically Offered: Fall, Spring

Readings in and analysis of romance fictions (primarily novels). Romances continually promise emotional (and sexual) fulfillment, but what do readers of romance novels get from this reading experience? Discussions of this popular genre will address the ways in which the pursuit of love and companionship and the indulgence in lust and passion manifest themselves in various cultural moments; critical materials will help theorize the appeals, dangers, and uses of romance fiction.

ENGL 190V. Great Drama on Video. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Studies and evaluates a selection of dramas on videos, such as but not limited to A Streetcar Named Desire, Death of a Salesman, Doll's House, Hamlet, Oedipus, Pygmalion, and Rosencrantz and Guildenstern.

ENGL 191A. Masterpieces of the Cinema. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Conducted by lecture and discussion. Students see a selection of the best, most enduring, most influential films made during the last hundred years and explore the historic, aesthetic, and philosophical reasons these films have generally been acknowledged as masterpieces.

ENGL 195A. Writing Center Theory and Practice: Internships. 4 Units
Term Typically Offered: Fall, Spring

Provides interns with an opportunity to apply tutoring principles while working at tutors in the writing center.
Note: ENGL 195A is a paired course with ENGL 410A, which meets at the same time in the same room. The graduate level class has a significantly increased reading, writing, and research component. May be repeated for up to 8 units of credit.

Credit/No Credit

ENGL 195C. Internship In Field Work. 4 Units
Term Typically Offered: Fall, Spring

Work experience in an area related to the English major. Credit/No Credit
Credit/No Credit

ENGL 195W. Writing Programs Internship. 4 Units
Term Typically Offered: Fall, Spring

Students will work with a Composition faculty member to complete a project for the campus writing program, the University Reading and Writing Center, the Graduation Writing Assessment Requirement, or the Writing Across the Curriculum Program. Students should contact the appropriate program coordinator to register for the course and design a project.
Note: May be repeated for credit if topic of internship differs.

ENGL 197A. Film -- Horror, Comedy, Science-Fiction. 4 Units
Term Typically Offered: Fall, Spring

Major genres of the cinema conducted by lecture and discussion. Students see a selection of films from the major genres including (but not limited to) horror, science fiction, and comedy; learn about the history and development of each genre; and explore the commercial, aesthetic, social, and philosophical forces that have shaped the major film genres.

ENGL 197G. Films of Great Directors. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the role of the director in the creation of excellent films. Students will view, analyze, and discuss memorable films by great directors, concentrating on their personal styles, cinematic strategies, and typical themes. Representative examples will include such filmmakers as Chaplin, Keaton, Renoir, Welles, Ford, Truffaut, Bunuel, Kurosawa, Hitchcock, Bergman, and others.

ENGL 197I. Film - Depression Giggles. 4 Units
Term Typically Offered: Fall, Spring

A semester of films, readings, and discussions focused on what is often called the ¿Golden Age of Hollywood,¿ the 1930s and early 1940s. Class will study as well the studio era, the star system, the development of cinematic genres, and censorship under the Production Code¿both when it was more strictly enforced [1934-after] and when it was not [1930-1934].

ENGL 197K. Fiction Into Film. 4 Units
Term Typically Offered: Fall, Spring

Students see a selection of films adapted from novels, short stories, or other literary works; read the original work from which the film was adapted; and explore the history, aesthetics, and craft of adapting fiction to film.

ENGL 197L. The American Film. 4 Units
Term Typically Offered: Fall, Spring

Focus on American films. Topics may cover a range of periods, movements, genres, styles and issues.

ENGL 197M. Recent American Films. 3 Units
Term Typically Offered: Fall, Spring

Emphasizes the trends, themes, forms, and cinematic techniques, technological advances, and 'revisionist' genres of recent American films of approximately the last twenty years, partly as a way of analyzing the American film conventions, partly as a means of examining our contemporary culture, but primarily as a means of analyzing and understanding the films themselves.

ENGL 197P. British Film. 4 Units
Term Typically Offered: Fall, Spring

Screenings and analysis of films produced in Great Britain. Students will view a variety of British films, starting possibly with silents and early Hitchcock and ending with films from the contemporary moment. Students will come to understand the historical and artistic contexts of the films and encounter the shifting definitions of what represents 'British' on the screens of the cinema and in the minds of viewers. May provide a survey of films or focus on particular themes, studios, or directors.

ENGL 197R. Films Of Alfred Hitchcock. 4 Units
Term Typically Offered: Fall, Spring

Traces Hitchcock's 'game with the audience' from its beginnings in silent films, through its British period, to its American conclusion. It closely examines important sequences, shots, images, character types, and themes. Students will view several of Hitchcock's classic films in their entirety.

ENGL 198T. Senior Seminar In English. 3 Units
Prerequisite(s): ENGL 120A and a minimum of 90 units.
Term Typically Offered: Fall, Spring

Features specialized topics taught by a variety of instructors depending upon the semester. Topics can include subject matter from literature, linguistics, English education, creative writing, composition/rhetoric, and film. Tend to the production of a significant research paper, a paper which will emphasize the student's ability to: Analyze and interpret multiple texts; Integrate primary and secondary sources; Construct a sustained, coherent, and rhetorically sophisticated piece of writing.

ENGL 198X. Senior Portfolio. 2 Units
Prerequisite(s): ENGL 120A, at least 80 units, and one of the following: ENGL 98, 100B, 100Z, 105, 120C, 120P, 120R, 125A,125B,130A, 30A, 30B, 30C, 130C, 130D, 130F, 130G, 130J, 130M, 130N, 130W, 130Y, 140A, 140B, 140C, 140E, 140F, 140G, 140H, 140I, 140J, 140K, 140L, 140M, 140R, 140Z, 145A, 145B, 145C, 145I, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150I, 150J, 150L,150M, 150P, 150R, 155E, 165D, 165F, 170A, 170D, 170E, 170G, 170H, 170I, 170K, 170M, 170N, 170Z, 180A, 180B, 180F, 180H, 180L, 180M,180Z, 185B, 185C, 185D, 190D, 190H, 190J, 190P, 190Q, 190R, 190V, 195A, 195C, 195C, 195W, 197A, 197G, 197I, 197K, 197L, 197M, 197P, 197R.
Term Typically Offered: Fall, Spring

In this course, students, as one element of their capstone experience, will reflect on their work in their classes and portfolio projects; the English major, its structure, curriculum, and values; their career goals and life-long learning; and the meanings of education and literacies in the academy and popular cultures. Students will edit and finalize their senior portfolio.
Note: On-line course

Credit/No Credit

ENGL 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

ENGL 200. Methods and Materials of English Studies. 3 Units
Term Typically Offered: Fall, Spring

Required for all MA candidates in English.

ENGL 200A. Methods and Materials of Literary Research. 4 Units
Term Typically Offered: Fall, Spring

Required of all MA candidates in English under Plans A and C and Creative Writing Plan B, acquaints students with principal sources and techniques of literary research. It also introduces students to contemporary critical approaches to literature. Students should take this course as early as possible in their graduate careers, preferably in the first semester. Students prepare an annotated bibliography and a paper employing a particular critical approach to one of a selection of anchor texts.
Note: Graduate Writing Intensive (GWI) course.

ENGL 200D. Materials and Methods of TESOL Research. 3 Units
Term Typically Offered: Fall, Spring

Explores research design and testing methods for quantitative and qualitative research in second language acquisition (SLA). Students develop the ability to read second language acquisition research critically; study a variety of theoretical perspectives represented in current SLA research; and review the history of the current 'burning issues' in SLA.
Note: Graduate Writing Intensive (GWI) course.

ENGL 200E. Curriculum and Assessment Design for Language Classrooms. 3 Units
Term Typically Offered: Fall, Spring

Examine the interplay between curriculum design and classroom assessment. The goals are 1) to familiarize prospective teachers with the terminology and practices underlying curriculum design and classroom assessment; 2) to develop the ability to analyze student needs and propose appropriate changes to curricula; and 3) to construct and implement language tests that reflect curricula.
Note: May be counted as an elective for the M.A. TESOL program.

ENGL 201D. Contemporary Theory. 4 Units
Term Typically Offered: Fall, Spring

Introduces students to the place of theoretical texts in literary studies and engages with theory through a survey of approaches and/or a thematic inquiry; examples of thematic approaches might include but are not limited to ¿formalism and new formalism,¿ ¿critical race studies, ¿ ¿theories of poetics,¿ and ¿the linguistic turn.¿

ENGL 210B. Sociolinguistics and TESOL. 3 Units
Term Typically Offered: Fall, Spring

ENGL 210C. Technology in Second Language Teaching. 3 Units
Term Typically Offered: Summer only

Prepares language teachers to effectively integrate technology into classrooms. Examines theoretical rationales for using computer-assisted language learning, the range of uses of technology in classrooms, and best practice. Develops students' technological literacy and ability to critically evaluate computer-assisted language teaching materials.
Cross Listed: ENGL 110C; only one may be counted for credit.

ENGL 210G. Second Language Acquisition. 3 Units
Prerequisite(s): ENGL 200D.
Term Typically Offered: Fall, Spring

Examines the factors affecting the acquisition of a second language, focusing on research in this area since 1970. Topics covered are: transfer and the role of the first language; developmental sequences; the role of input, interaction and output; cognitive and personality variables, including age; and the role of formal instruction and error correction.

ENGL 215A. Reading/Vocabulary Acquisition. 3 Units
Term Typically Offered: Fall, Spring

Preparation of teachers of English to speakers of other languages. Examines the psycholinguistic bases of the reading process in ESL, provides opportunities for seminars to test reading practices in peer demonstrations, and explores the fundamentals of testing, evaluation, and syllabus design in the ESL curriculum. Particular attention for reading and vocabulary will be given to miscue analysis and acquisition theory.

ENGL 215B. ESL Writing/Composition. 3 Units
Term Typically Offered: Fall, Spring

Provides the groundwork to prepare teachers of English to speakers of other languages for composition instruction. An examination of the theoretical bases of language acquisition, composing process, and correction/revision strategies that will enable students to plan and demonstrate writing lessons to their peers. Consideration of traditional tests of writing, such as the TOEFL, the WPJ, and innovative forms of evaluation are integrated with syllabus design and text evaluation.

ENGL 215C. Pedagogical Grammar for TESOL. 3 Units
Term Typically Offered: Fall, Spring

Examines those areas of English grammar that are typically taught to non-native speakers. The goals are 1) to familiarize prospective ESL teachers with terminology and analyses that can be used in the classroom; 2) to develop the ability to explain and exemplify grammatical phenomena in terms accessible to ESL students; 3) to review sample materials and techniques for teaching English grammar to non-native speakers.

ENGL 215D. Pedagogy of Spoken English. 3 Units
Term Typically Offered: Fall, Spring

Examines aspects of spoken English that are typically taught to non-native speakers. The goals are 1) to familiarize prospective ESL teachers with terminology and analyses that can be used in the classroom; 2) to develop the ability to analyze student difficulties and provide appropriate help; 3) to review sample materials and techniques for teaching spoken English to non-native speakers.

ENGL 220A. Teaching College Composition. 4 Units
Term Typically Offered: Fall, Spring

Designed for prospective community college and university writing instructors. It focuses on theory and research in rhetoric, composition, and cognitive development and on practical, pedagogical classroom strategies. Students discuss a variety of theories and research studies and then apply writing theory to classroom strategies, design lessons, assignments, and syllabi, and practice analyzing and responding to student writing; and prepare a teacher portfolio.
Note: Graduate Writing Intensive (GWI) course.

ENGL 220C. Topics in Composition Studies. 4 Units
Prerequisite(s): ENGL 220A
Term Typically Offered: Fall, Spring

Rotating series of topics relevant to composition studies. Regardless of the topic, students will explore the history of the field, the theory and practice of the field, the major scholarly works of the field, and the relationship of the field of study to the broader field of composition and rhetoric.

ENGL 220D. Teaching and Composition Research. 4 Units
Term Typically Offered: Fall, Spring

Examines the history and current status of research methods and methodologies in Composition Studies. It explores both producing and consuming research -- studying how and why research has been conducted and how it has been understood and put to practical use by readers of composition research.

ENGL 220P. Professional Writing. 4 Units
Term Typically Offered: Fall, Spring

Examines theories that inform the practices of professional writers and applies theoretical principles to some common professional writing genres used in career fields ranging from business to public relations to nonprofit management. Focuses on how business or technical communication is different from academic styles and introduces students to the current writing challenges and practices in these fields.

ENGL 220R. Topics in Rhetorical Theory and Practice. 4 Units
Term Typically Offered: Fall, Spring

Designed to help students learn about and apply rhetorical theory. Its goal is to introduce graduate students to the history and theory of rhetorical movements after--or outside of--the rhetorics of Western antiquity. Evaluation will be based on weekly journal responses to readings, a major paper on rhetorical theories, and a course portfolio.

ENGL 220W. Writing in Your Discipline. 3 Units
Prerequisite(s): Graduate GWAR placement Score of 40 or a GWI course grade of 'B-' or lower
Term Typically Offered: Fall, Spring

Writing workshop course designed to immerse graduate students in the discourse of their disciplines; required for graduate students who have received a 3 unit placement on the Writing Placement for Graduate Students (WPG). Focuses on the writing process, text-based academic writing in various academic genres, revising, and editing. Students will produce 5000 words. Includes assessment via Course Portfolio.

ENGL 222. Understanding Multidisciplinarity in Writing Studies. 1 Unit
Term Typically Offered: Fall, Spring

The discipline of Writing Studies has roots in a number of areas of scholarly inquiry. Some disciplines that have contributed to the development of the field include Literary Studies, Linguistics, Communications, Information Technology, Philosophy, Library Science, Psychology, and Education. In this course, students will evaluate a theory or concept presented in a discipline outside of Writing. Required for students in the MA in Composition, Rhetoric, and Professional writing who are taking a ENGL 215B or another three-unit elective.

ENGL 225A. Theories of Teaching Literature. 3 Units
Term Typically Offered: Fall, Spring

Introduction to theories of teaching literature so students who intend to teach at the college level have examined their assumptions and options before they develop their teaching practices. Organized around three questions: Why do we teach literature? What do we teach? How do we teach?

ENGL 225C. Theoretical Issues in Adult Literacies. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to current theories surrounding the pedagogies and politics of adult literacies within a wide variety of contexts, including community colleges, prisons, and community projects. Incorporates information on technological literacies, information literacies, cultural literacies, and multiliteracies. In addition, students will be partnered with community literacy experts and required to complete formal observations of adult reading classrooms throughout the semester, fostering collaboration between the local community and the university. Cross-listed: EDTE 225C; only one may be counted for credit.

ENGL 230A. Writing Fiction. 4 Units
Term Typically Offered: Fall, Spring

Seminar in the workshop format designed for experienced writers of fiction. It is designed to provide intensive instruction in the theory and craft of writing short stories, novels, and screenplays.

ENGL 230B. Advanced Poetry Writing. 4 Units
Term Typically Offered: Fall, Spring

Theory and practice in the writing of poetry. Consists primarily of the preparation and evaluation of student work. Students are also be assigned supplemental readings designed to help them determine their affinity (or lack of affinity) with current poetic theory and practice.

ENGL 230D. Meter and Rhythm. 4 Units
Term Typically Offered: Fall, Spring

In-depth study of prosody including the principles of meter (line measurement) and scansion (the marking of stressed and unstressed syllables to determine meter and rhythm), as well as examining the relationship of these principles to verse in English. Examines a variety of poetic schemes, tropes, and forms. Lecture and guided practice.

ENGL 230E. Writing and Theorizing Memoir. 4 Units
Term Typically Offered: Fall, Spring

Examines the craft of writing memoir and creative nonfiction as well as the theory and history of contemporary memoir writing. Students will write and workshop their own memoirs and creative nonfiction. Introduces students to literary and philosophical theories of memory and writing as well as look at contemporary memoirs written in a variety of styles.

ENGL 230G. Between Genres: Flash Fiction/Prose Poetry. 4 Units
Term Typically Offered: Fall, Spring

English 230G offers graduate poets and fiction writers the opportunity to explore/experiment with the long-standing anti-genre of the poetry/fiction hybrid. For 200 years writers around the world have noted the symbiosis between the genres of poetry and prose. Currently, some of America's most exciting writers are currently exploring the margins between prose poetry, flash fiction, and related evolving forms.

ENGL 230X. Master Class in Writing Fiction. 4 Units
Prerequisite(s): ENGL 130A, or ENGL 130M, or ENGL 130N, or ENGL 230A or instructor permission.
Term Typically Offered: Fall, Spring

Workshop provides intensive instruction in the theory and craft of writing fiction designed for students who are already writing at a professional or near-professional level, and for those who have proven themselves ready to take advanced study with careful, individualized direction of the instructor.
Note: May be repeated once for credit.

ENGL 230Y. Master Class in Writing Poetry. 4 Units
Prerequisite(s): ENGL 130B or ENGL 230B or instructor permission.
Term Typically Offered: Fall, Spring

Designed to provide intensive practice in the techniques and problems of writing poetry. It is aimed at students interested in creative writing, those who have already done significant work and who have proven themselves ready to take advanced study with careful individualized direction of the instructor.

ENGL 240. British Literature. 3 Units
Term Typically Offered: Fall, Spring

Seminars in British literature.

ENGL 240A. Chaucer. 4 Units
Term Typically Offered: Fall, Spring

Investigation of the body of Chaucer's poetry, seen against the backdrop of the late 14th century.

ENGL 240B. The World and the Flesh: Victorian Fiction. 4 Units
Term Typically Offered: Fall, Spring

Explores the Divided-Self of Victorian fiction, a consciousness split between word and flesh, duty and love, society and the self, or most generally between one's public role and one's private needs. Such polar themes affect several fictional genres such as the Pastoral, Gothic, Bildunsroman, Historical Novel and Naturalism. The word and flesh dialectic also informs the narrative structure of Victorian fiction.

ENGL 240E. 18th-Century Novelists. 4 Units
Term Typically Offered: Fall, Spring

Focuses on individual novelists, pairs of novelists, or thematic groupings. Might include works of fiction by authors such as Behn, Defoe, Richardson, Fielding, Steme, Goldsmith, Bumey.

ENGL 240F. Dickens+Thackeray. 4 Units
Term Typically Offered: Fall, Spring

Dickens and Thackeray dominated the popular mind as the novelists of the age; no other novelists are more representative of their age and yet can claim to have risen above it. Concentrates on just a few of their novels. Students study the writers and their novels in the context of English society in the 19th century.

ENGL 240G. Yeats, Kavanagh and Heaney: Ireland's Modern Irish Poets. 3 Units
Term Typically Offered: Fall, Spring

Yeats, often considered a modernist and a poet in the British tradition, saw himself primarily as an Irish poet working within distinctly Irish literary traditions. Focuses on Yeats' conception of a national, ethnic poetry and the effect that mission had on Ireland's other two major 20th century poets–Kavanagh and Heaney. Students analyze Yeats' most influential work; Kavanagh and Heaney are studied in terms of their debt to Yeats and their individual expressions of national consciousness.

ENGL 240H. DH Lawrence. 3 Units
Term Typically Offered: Fall, Spring

Lawrence was immensely original. Like Tolstoy and Dostoevsky, Lawrence is a prophetic visionary intensely concerned to articulate and embody an all-embracing, profoundly existential, vision of life. Examines Lawrence's work closely after a brief exploration of modernism and Lawrence's relation to it and an examination of how conditions in post-Victorian England and events in Europe in the early 20th century contributed to the making of Lawrence's world view and his role as a controversial outsider.

ENGL 240I. Jane Austen. 4 Units
Term Typically Offered: Fall, Spring

Focuses on Jane Austen, perhaps England's greatest novelist. Students read almost all of her work and trace the development of her art from her teenage years until her death in 1817, noting how each new book is a distinct departure from previous ones.

ENGL 240J. James Joyce. 3 Units
Term Typically Offered: Fall, Spring

James Joyce is a monument among twentieth century writers. His masterful Ulysses and other intricate works have kept generations of critics in business. Examines his major fictions, studying them in relationship to the life out of which they grew.

ENGL 240K. English Renaissance Drama. 3 Units
Term Typically Offered: Fall, Spring

Sense of exploration, discovery, experimentation, creativity, and moral complexity of the Renaissance era in England (roughly 1550 to 1660) is reflected in the variety and number of plays written by Shakespeare's predecessors, contemporaries, and successors. Following introductory material on the development of the drama in England, students analyze Elizabethan and Jacobean playwrights, exclusive of Shakespeare. Emphasis is on the forms and themes of the plays, with application of 'New Historicism' and attention to Renaissance backgrounds

ENGL 240L. Conrad and Greene. 3 Units
Term Typically Offered: Fall, Spring

When English critic F.R. Leavis declared that the great English novelists were Austen, Eliot, James, and Conrad, he emphasized these writers' intensely moral pre-occupation. No modern novelist has been more influenced by Conrad than Graham Greene, whose work has the same romantic subject matter and concerns with ethical judgments. Both writers are concerned with the question: to act or not to act, for either choice has inescapable ethical consequences.

ENGL 240M. The Gothic Novel. 4 Units
Term Typically Offered: Fall, Spring

Examines the origins and development of the Gothic Novel in England. Attention is paid to recurring structures and themes such as architecture, the use of a narrative frame, reader identification figure, the divided self, the relationships between sex, violence, and death, the wasteland motif, and existential concerns. Special attention is given to the role of the reader and his or her response to the novels.

ENGL 240N. Arthurian Literature. 4 Units
Term Typically Offered: Fall, Spring

Study of Arthurian literature in the Middle Ages from its origins to Thomas Malory, as well as some coverage of reception history

ENGL 240O. Satire In Age Swift+Pope. 3 Units
Term Typically Offered: Fall, Spring

ENGL 240R. Charles Dickens. 4 Units
Term Typically Offered: Fall, Spring

Examines the major narrative, plot, and genre structures, image patterns, and thematic preoccupations in Dickens' novels, like the interrelationships between homes, prisons, factories and schools. The influences of Dickens' life, periodical publishing of illustrated magazines, and of Victorian society also receives attention. Introduces students to relevant insights of several 'post-structural' critical schools, including those of deconstruction, the carnivalesque, liminality, and Lacanian psychology.

ENGL 240S. Modern Irish Fiction. 3 Units
Term Typically Offered: Fall, Spring

Examines in detail one aspect of the Irish Renaissance (approximately 1880-1940)--Ireland's contribution to fiction in the twentieth century. Also examines not only individual writers and works but the development of the genres of the novel and short story and movements such as realism, naturalism, modernism, and post-modernism. Writers might include Joyce, O'Brien, O'Flaherty, O'Faolain, and others.

ENGL 240T. Renaissance Literature. 4 Units
Term Typically Offered: Fall, Spring

Students will explore the poetry, prose, and drama produced in England during the 16th and 17th centuries. Contemporary criticism and theory will provide a context for reading these primary works.

ENGL 240U. Nineteenth-Century Texts and Sex. 4 Units
Term Typically Offered: Fall, Spring

Examines a range of sexual identities through which nineteenth-century Britons imagined their lives. Such identities were influenced by ideas about race, class, status, ethnicity, gender, and age that often differed markedly from our own. Moves beyond the literary to look at texts from a variety of genres (medical, literary, erotic, and autobiographical) and cover both well-treated and more obscure texts.

ENGL 240X. Contemporary British Fiction--1980 to Present. 4 Units
Term Typically Offered: Fall, Spring

Students read and study British works of fiction-novels and short stories-written after 1979. Although the choice of authors and works might vary from one semester to another, focuses on works of fiction deemed significant and valuable by literary scholars and critics.

ENGL 240Z. Special Topics in British Literature. 4 Units
Term Typically Offered: Fall, Spring

Open to the investigation of either a limited period (e.g. World War I poets or Victorian Children's literature), a single author (e.g. Hanif Kureishi or Aphra Behn), an authorial dialogue (e.g. Chaucer & Spenser, Stoppard and Shakespeare, Sidney & Wroth), or a unique literary feature, theme, or structure (e.g. Pastoral & Georgic or Empire & Race).

ENGL 245A. Shakespearean Romance. 3 Units
Term Typically Offered: Fall, Spring

ENGL 250A. Wharton and Cather. 3 Units
Term Typically Offered: Fall, Spring

Focuses on the writing of Edith Wharton and Willa Cather, two of our most accomplished early American writers. Shows how these writers, poised on the threshold of the twentieth century-and pulled simultaneously forward and back-explored similar themes, and how, as two of the few revered women writers of this time, they focused particularly on shifting gender roles; Wharton with her eye on interior space and Cather with her eye on exterior space.

ENGL 250D. Hawthorne and Melville. 3 Units
Term Typically Offered: Fall, Spring

Readings and discussion of major works by Hawthorne and Melville.

ENGL 250F. Whitman and Dickinson. 4 Units
Term Typically Offered: Fall, Spring

This seminar on two of America's greatest poets, Whitman and Dickinson, focuses primarily on the poetry, but also on letters and prose pieces. Students read and discuss criticism on each writer, and study cultural and historical contexts of these two contemporaneous but antithetical poets. Study includes traditional and feminist studies of Dickinson and Cultural Studies of Whitman. Forms a dialogue between these two remarkable and remarkably different poets; students join in that dialogue.

ENGL 250H. American Realism. 4 Units
Term Typically Offered: Fall, Spring

Between the end of the Civil War and the outbreak of World War I, there was an unprecedented and transforming social and cultural change in American life. During this time, literature also radically contributed to ideas about the nature of fiction, the reality it represented, and its effects on readers. Students will study the historical development of realism in literature and the current status of theories of literary realism.

ENGL 250J. Henry James. 4 Units
Term Typically Offered: Fall, Spring

James' innovations in narrative technique paved the way for the emergence of the modern novel; his development of a theory of fiction helped establish an American literary tradition and bring the American novel into the mainstream of British and European literature. Students read James' major works of fiction and criticism with an eye to understanding and enjoying them and to assessing the nature of the writer's contribution to the novel as a serious art form.

ENGL 250K. Contemporary American Fiction. 3 Units
Term Typically Offered: Fall, Spring

Studying contemporary fiction involves challenges and pleasures. Unlike studies in most areas of literature where the best writers have been clearly established, studying contemporary fiction means risking one's own critical skills to identify what new texts and writers are significant without the help of earlier generations of scholars and critics.

ENGL 250L. American Women Writers. 3 Units
Term Typically Offered: Fall, Spring

Focuses on the contributions of women writers to American literature. Begins with a brief overview of feminist critical approaches and of the history of women writing in America. Close critical analysis of texts focuses on four or five writers from various centuries, regions, and ethnic groups. Covers such writers as Toni Morrison, Sarah Jewett, Marilynne Robinson, Eudora Welty, Lee Smith, Leslie Silko, and others. Students work collaboratively to present background information and critical approaches to the writers.

ENGL 250P. Wharton and Chopin. 3 Units
Term Typically Offered: Fall, Spring

Growth of a feminine perspective in literary theory has resulted in a radical reconsideration of the American literary canon, producing new readings of texts, patterns in literature and culture, and connections between texts. Wharton and Chopin are two writers taking a place of importance in the development of the realistic novel in America and in the creation of a distinctive tradition of women's literature. Focuses on the heuristic possibilities of a distinctly different literature by women, the role of gender, and the contributions of Wharton and Chopin to the novel.

ENGL 250Q. Irish-American Fiction. 3 Units
Term Typically Offered: Fall, Spring

Examines the theme of immigration and that of assimilation in a particular ethnic group: Irish-Americans. Through an examination of the literature, we find an ethnicity that is uneasily part of the American fabric and one defined to a large degree by the culture they either abandoned or were forced to abandon. Representative writers include Eugene O'Neill, Alice McDermott, William Kenney, Mary Gordon, John Gregory Dunne.

ENGL 250R. Wm. Faulkner: Major Fict. 3 Units
Term Typically Offered: Fall, Spring

ENGL 250T. Postmodern Fiction. 3 Units
Term Typically Offered: Fall, Spring

Study of important recent fiction that has come to be referred to as 'postmodernist' because its non-traditional themes, subject matter, and narrative technique embody or reflect the postmodern era.

ENGL 250U. Roaring Twenties Literature. 3 Units
Term Typically Offered: Fall, Spring

Focus on literature dramatizing the roaring, irrepressible twenties, a decade of unprecedented change following the 'Great War to end all wars.' Highlighting Fitzgerald, whose life mirrors the times, also includes other 'expatriate' writers such as Wharton, Dos Passos, Stein, Eliot, and Hemingway, who looked at America from an overseas perspective and reflected on the changes in communication, sensibility, and values resulting from the new freedom of this revolutionary, liminal period.

ENGL 250V. Cultural Studies. 4 Units
Term Typically Offered: Fall, Spring

Surveys the range of contemporary cultural phenomena and the relevant modes of analysis currently employed in Cultural Studies with a focus on literary production and cultures.

ENGL 250W. The Poetry of T.S. Eliot. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the poetry of T.S. Eliot, one of the dominating figures of English and American literature for a substantial part of the twentieth century: In 1948 he received the Nobel Prize for Literature, and by 1950 his authority had reached a level that seemed comparable in English writing to that of figures like Johnson and Coleridge. Offers students the opportunity to analyze and discuss Eliot's poems. We will trace his poetic/aesthetic development from his early poems ('Prufrock' et al.)

ENGL 250Z. Special Topics in American Literature. 4 Units
Term Typically Offered: Fall, Spring

The investigation of either a limited period (e.g. The Transcendental period or the Novel of the 1960s), a single author (e.g., Philip Roth or Toni Morrison), or a unique literary feature or structure (e.g. Literary Naturalism or the Experimental Novel).

ENGL 260A. Myth Criticism. 3 Units
Term Typically Offered: Fall, Spring

Introduces and traces through several literary works and genres the fundamental topics in myth criticism; significance of ritual, fairy tales, and archetypal romance forms; contributions of Freudian, Lacanian, and Jungian psychology and their relation to Joseph Campbell's notion of the monomyth; relevance of Victor Turner's 'liminal' theories of rites of passage in anthropology; importance of recent discoveries with the bicameral and 'triune' brain in biological sciences; kinds of myth (hero, heroine, American, love, wasteland, artist, time); and relationships between myth criticism and post-structuralism.

ENGL 260D. Literature and Biography. 3 Units
Term Typically Offered: Fall, Spring

ENGL 265A. Postcolonial Literature. 3 Units
Term Typically Offered: Fall, Spring

Focuses on contemporary literary works from postcolonial locations such as Africa, Australia, South Asia, Canada and the Caribbean. Explores the relationships between literary texts and the historical and social contexts from which they arise; especially European colonialism.

ENGL 275. Seminar in Literary History. 3 Units
Term Typically Offered: Fall, Spring

Literary history designed to introduce the graduate student to bibliographical materials necessary to the successful pursuit of advanced study in English. It will deal with the major historical periods of English and American literature, and looks briefly at the major European traditions.

ENGL 280A. Aesthetics of Minority Literature. 4 Units
Term Typically Offered: Fall, Spring

This course examines African American literature and film. Focusing on the emergence of a distinctly black modernist and post-modernist literary discourse, we will also study how neo-slave narratives illuminate the difficulties of comparative freedom and the legacies of Caribbean and American slaveries and oppression.

ENGL 280B. The Ethics of Black Verbal Aesthetics. 4 Units
Term Typically Offered: Fall, Spring

This course introduces the advanced study of black verbal aesthetics in the novels of Ralph Ellison (the dozens), Toni Morrison (folktales), Colson Whitehead (call and response), the poetry of Harryette Mullen (diasporic blues/jazz improvisation), and others. Exploring black verbal aesthetics and sonic technologies, we will investigate how the these authors above (as well as James Baldwin and Amiri Baraka) treat verbal expressive arts as sites of hidden knowledge, subversion, and everyday politics that centralizes black life and culture.

ENGL 280J. Jewish American Literature. 3 Units
Term Typically Offered: Fall, Spring

Students will examine a rich tradition of Jewish American literature in the context of a complex American multicultural narrative. Topics include the immigrant experience, assimilation, alienation, responses to the Holocaust and other forms of anti-Semitism, the place of Israel in the Jewish American imagination, and a contemporary rediscovery or reconstruction of Jewishness and Judaism. Students will interrogate what constitutes Jewish American identity and defines its literature in a culture that is itself conflicted about its secular/religious ethos and the degree to which subjectivity is determined by 'consent and/or descent.

ENGL 297A. Prose Style In Literature. 3 Units
Term Typically Offered: Fall, Spring

ENGL 299. Special Problems: English Tutorial. 1 - 3 Units
Prerequisite(s): ENGL 200.
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Highly recommended for, and open only to, students who are able to carry on individual tutorial study. Admission by approval of faculty member who is to act as tutor and of graduate advisor or of Department Chair.
Credit/No Credit

ENGL 410A. Writing Center Theory and Practice: Internships. 4 Units
Term Typically Offered: Fall, Spring

Provides interns with an opportunity to apply tutoring principles while working at tutors in the writing center.
Note: ENGL 410A is paired course with ENGL 195A, which meets at the same time in the same room. The graduate class, 410A, has a significantly increased reading, writing, and research component. May be repeated for up to 8 units of credit.

Credit/No Credit

ENGL 410B. Internship-ESL Teaching. 3 Units
Term Typically Offered: Fall, Spring

Provides interns with an opportunity to experience the day-to-day life of an ESL class. Tutors will observe an ESL class, will assist the teacher in conducting various aspects of the class, and will be responsible for planning and teaching at least one class session. Seminar meetings will provide and overview of ESL teaching methodology.
Credit/No Credit

ENGL 410C. Internships. 4 Units
Term Typically Offered: Fall, Spring

Work experience in an area related to the English major. Can be repeated if topic of internship differs. Credit/No credit
Credit/No Credit

ENGL 410E. Internship in Teaching Writing. 4 Units
Term Typically Offered: Fall, Spring

Students considering a teaching career intern in a composition class at an area community college. They work with a mentor teacher on site and meet periodically at CSUS. The internship provides students with an opportunity to experience the day-to-day life of a composition class and hands-on opportunity to design assignments, respond to student writing, conduct class discussions, etc. Students read composition and rhetorical theory with an eye toward day-to-day application in the classroom.
Credit/No Credit

ENGL 410F. Internship in Teaching Literature. 4 Units
Prerequisite(s): Recommended ENGL 225 or ENGL 22A or instructor Permission
Corequisite(s): Instructor Permission
Term Typically Offered: Fall, Spring

Gives graduate students the opportunity to gain teaching experience in a literature classroom. Students will work closely with an instructor-of-record in a large (60+) lecture literature course and in small group discussion sessions under the supervision of the mentor professor. Interns will also meet regularly with their peers to discuss pedagogical issues and readings as they pertain to their experiences in the classroom.
Credit/No Credit

ENGL 410L. Internship in Teaching Adult Reading. 3 Units
Term Typically Offered: Fall, Spring

Tutoring in adult reading. Tutors work with students who need reading instruction at Sacramento State, local community colleges or adult education agencies in the Sacramento area.
Credit/No Credit

ENGL 410W. Writing Programs Internship. 3 Units
Term Typically Offered: Fall, Spring

Students will work with a Composition faculty member to complete a project for the campus writing program, the University Reading and Writing Center, the Graduation Writing Assessment Requirement, or the Writing Across the Curriculum Program. Students should contact the appropriate program coordinator to register for the course and design a project.
Credit/No Credit

ENGL 500. Culminating Experience. 2 Units
Term Typically Offered: Fall, Spring

Completion of a thesis, project, comprehensive examination. In addition, students will be asked to edit and reflect on their portfolio projects from coursework.

ENGL 598T. Culminating Experience - TESOL. 3 Units
Term Typically Offered: Fall, Spring

Completion of a thesis, project, or TESOL comprehensive exam. Requires advancement to candidacy and permission of graduate coordinator. Project and thesis options require GPA of 3.7.

Entrepreneurship (ENTR)

ENTR 185. Venture Growth Strategies. 3 Units
Prerequisite(s): Upper-division standing; ENTR 187 or ENTR 189.
Term Typically Offered: Fall, Spring

Focuses on the opportunities and challenges involved in the management of a business venture and its growth opportunities. Growth is the ultimate resource constrainer, stretching all the resources of a company to the limit and often beyond. Develops a venture spanning approach that examines the business venture and the challenges that tasks venture management to the limit. Provides students with a series of frameworks, analytical skills and techniques, heuristics, and decision-making tools that can be used in growing entrepreneurial businesses.
Note: Only students with an Entrepreneurship Concentration will be admitted.

ENTR 187. Entrepreneurship. 3 Units
Term Typically Offered: Fall, Spring

Objective is to lead students through all steps necessary in starting a business: analyzing personal and business goals, researching the market, developing a marketing plan, determining land, building, equipment, supplies, inventory, people needed, determining cash flow and pro forma financial statements, and money needed. The output of all this will be a professional business plan and financial package ready to submit to prospective investors.

ENTR 189. Corporate Entrepreneurship. 3 Units
Prerequisite(s): Upper-division standing.
Term Typically Offered: Fall, Spring

Offers a multidisciplinary framework for studying and developing corporate entrepreneurship. Covers the climate and culture of an entrepreneurial organization, strategies for developing new business ventures within an organization, and strategies for transforming firms toward a more entrepreneurially driven organization. As a result, students will increase their understanding of environment, processes and strategies that will create value and build competence through entrepreneurial activities within organizations.

Environmental Studies (ENVS)

ENVS 10. Introduction to Environmental Science. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring, Winter

Course looks at the earth as an ecosystem composed of biological, chemical, and physical systems. Focus is on the interaction of these systems with each other and with human population, technology, and production. Students should acquire the fundamentals of a scientific understanding of the ecological implications of human activities. Specific topics treated within the context of ecosystem analysis include energy flows, nutrient cycles, pollution, resource use, climate changes, species diversity, and population dynamics.

ENVS 10H. Honors Environmental Science. 3 Units
General Education Area/Graduation Requirement: Life Forms (B2)
Term Typically Offered: Fall, Spring, Summer

The earth as an ecosystem composed of biological, chemical, and physical systems. Focus is on the interaction of these systems with each other and with human population, technology, and production. Students should acquire the fundamentals of a scientific understanding of the ecological implications of human activities. Specific topics treated within the context of the ecosystem analysis include energy flows, nutrient cycles, pollution, resource use, climate change, species diversity, and population dynamics. Students read important original research on topics. All students participate in a semester long project that applies the principles of the course to a real environmental issue.

ENVS 11. Environmental Issues and Critical Thinking. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Examines Western cultural values and personal beliefs toward the environment. Teaches critical thinking skills to analyze issues to make informed choices that may impact the earth, its resources and their management as consumers, leaders, professionals and moral agents.

ENVS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Provides students with the opportunity to interact with fellow classmates and the seminar leader to build a community of academic and personal support.

ENVS 110. Contemporary Environmental Issues. 3 Units
Term Typically Offered: Fall, Spring

Examination of a variety of environmental issues with emphasis on the social aspects of the problems and solutions. The class is conducted primarily through discussion, with an unusually high degree of student responsibility. Group and individual projects are designed to involve students in community affairs as well as to give them an opportunity to develop a personal perspective on environmental issues.

ENVS 111. Environmental Ethics. 3 Units
Term Typically Offered: Fall, Spring

Consideration of how human beings should act with regard to the non-human natural world in the context of complex societal needs. Students will use critical thinking skills to integrate insights from the sciences, social sciences, and humanities to make ethical decisions.

ENVS 112. International Environmental Problems. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X. Environmental Studies majors only.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Global perspective on current problems of environmental protection and resource use. Population growth, food production, industrialization, technology and cultural change are considered, with heavy emphasis on the social dynamics of environmental problems. A variety of political views is studied, and an attempt is made to develop a perspective useful to students in personal and political decisions.
Note: PCR/IR students are encouraged to contact the department regarding enrollment into this course.

ENVS 120. Quantitative Methods for Environmental Science. 3 Units
Prerequisite(s): Must be an ENVS major or minor; STAT 1 or instructor permission.
Term Typically Offered: Fall, Spring

Research tools and methods used by environmental professionals including selected statistical procedures, data sources and presentation and interpretation of results. Students will become familiar with the wide range of equipment available to fit their special needs including the computer time-sharing system.

ENVS 121. Field Methods in Environmental Science. 2 Units
Prerequisite(s): Must be an ENVS major or minor
Term Typically Offered: Fall, Spring, Summer

This field course includes the direct observation of human impact on specific environments and examples of mitigation strategies. Students will learn information gathering and data presentation methodologies useful in environmental impact assessment. Lecture three hours per week; one-day and weekend field trips will be arranged.
Note: Course also substitutes for ENVS 175.

Field trip(s) may be required.

ENVS 122. Environmental Impact Analysis: CEQA and NEPA. 3 Units
Term Typically Offered: Fall only

Review of legislative and judicial requirements for environmental impact analysis. Students will be asked to review actual project environmental impact reports, analyze the methods employed, understand the relationship of the report to the planning process, and prepare such a document.
Note: It is recommended that students complete ENVS 128 or have some actual experience with environmental impact documentation before taking this course.

ENVS 124. Social Justice in Interdisciplinary Perspective. 3 Units
Prerequisite(s): Sophomore standing or instructor permission.
Term Typically Offered: Fall, Spring

Examines the nature and forms of social justice and injustice. Addresses key philosophical and theoretical models and debates over the meaning of social justice, using historical and contemporary examples to highlight important concepts and controversies. Faculty from different departments within SSIS, and occasionally from other colleges, will address how their discipline understands and analyzes issues of social justice. Students will be encouraged to critically assess the assumptions of various perspectives on social justice, and to address the relationship of academe and social activism in achieving social justice.
Cross listed as ANTH 130, ID 124, ETHN 124, FACS 124 and SOC 124. Only one may be counted for credit.

ENVS 128. Environment and the Law. 3 Units
Term Typically Offered: Spring only

Introduction to environmental law, including: the evolution of environmental legislation, environmental issues in the court system, environmental regulation and administrative law, and environmental torts. Emphasis is on understanding legal process and the special challenges environmental problems present to the legal system.
Cross Listed: GOVT 128; only one may be counted for credit.

ENVS 130. Environmental Toxicology. 3 Units
Prerequisite(s): CHEM 6A or instructor permission.
Term Typically Offered: Spring only

Focuses on the aspects of toxicology which enable us to study and explore environmental issues concerning human and ecosystem health. It will explore the impact of human activity since World War II in contributing to human disease and ecosystem disruption. Risk perception and communication as it concerns environmental toxicology will also be discussed.

ENVS 135. California Water and Society. 3 Units
Prerequisite(s): ENVS 120 or instructor permission
Term Typically Offered: Fall, Spring

This course provides the historical, scientific, legal, institutional, and economic background needed to understand the social and ecological challenges of providing water for California's growing population, agricultural economy, and other uses- all of which are made more complex by climate change. We will look at past and current debates around cases ranging from local issues on the American River to statewide issues that converge in the Sacramento-San Joaquin Delta. Both physical and social science research skills will be developed.

ENVS 137. Conservation and Society. 3 Units
Prerequisite(s): ENVS 10 and BIO 1
Term Typically Offered: Fall, Spring

Course will introduce students to the interdisciplinary field of conservation biology through the lens of modern society. Students will acquire a basic understanding of the history of the field of conservation, and the values that drive our desire to preserve species and natural systems. Students will learn about conservation challenges, will analyze the scientific and social factors that contribute to addressing those challenges, and will learn to appreciate the diverse perspectives that are vital in modern conservation.

ENVS 138. Introduction to Environmental Sociology. 3 Units
Term Typically Offered: Fall, Spring

The study of human society, the natural environment, and their mutual interactions. Examines environmental sociology at several levels, from the micro level of individual communities to the meso level of government policies to macro theoretical considerations. Analyzes environmental issues in a global context also included.
Cross Listed: SOC 138.

ENVS 140. Energy, Society, and the Environment. 3 Units
Prerequisite(s): Upper division standing
Term Typically Offered: Fall, Spring

This course covers the concepts and tools necessary to understand society's diverse technology and policy choices around energy production and use. Students will apply both quantitative and qualitative methods to analyze opportunities and impacts of energy systems with consideration for environmental sustainability, international development, and social equity. We will consider a range of energy technologies, their historical trajectories, current drivers, and prospects for addressing energy challenges at different scales, from households to the global climate.

ENVS 144. Sustainability Science & Policy. 3 Units
Prerequisite(s): ENVS 10, BIO 1, or instructor permission
Term Typically Offered: Fall, Spring

Examines issues of environmental, social, and economic sustainability in domestic and international contexts. Students will study the science, policy, and implementation of sustainable practices regarding water, food, and energy resources. Students will learn the history of sustainability, definitions of sustainability, how sustainability is measured, and how sustainability applies to urban and rural landscapes.

ENVS 147. Urban Agriculture and Aquaponics. 3 Units
Term Typically Offered: Fall, Spring

This course uses campus initiatives in food and bio-waste recycling, combined with vermiculture and aquaponics, to address larger topics in urban food production. This subject has significance for addressing concerns about food access, security, quality, and even local economic development. The course will include hands-on activities on campus, projects with local urban agriculture organizations, and reports connecting the specifics of the course with core questions in environmental science and policy

ENVS 149. Agroecology. 3 Units
Term Typically Offered: Fall, Spring

Ecological aspects of the production of food and fiber, with emphasis on the sustainability and adequacy of the global food supply to meet the needs of a growing, urbanized population. Covers topics basic to all agricultural systems - soil development, fertility, irrigation, nutrient cycles, crop selection - while contrasting methods developed for large-scale industrial food production with traditional and/or organic farming methods.
Note: Required field trips.

Field trip(s) may be required.

ENVS 151. Restoration Ecology. 3 Units
Term Typically Offered: Spring only

Overview of concepts and practices in restoration ecology, emphasizing the application of ecological principles to restoration design, implementation, and monitoring. Major course topics will include historical ecology, soils and hydrology, plant and animal ecology, exotic species, endangered species concerns, mitigation, monitoring, planning, and assessment as they apply in a restoration context. Students will work in local restoration projects; field trips required.
Field trip(s) may be required.

ENVS 155. Environmental Management and Decision-Making. 3 Units
Prerequisite(s): ENVS 10 or the equivalent, or instructor permission.
Term Typically Offered: Fall only

Course investigates the motivations and barriers to engaging in pro-environmental behaviors. Focus on theories from multiple social and behavioral sciences to understand how individuals form judgments and decisions regarding natural resource and ecosystem management. Specific topics may include principal-agent theory, dual-process theory, multi-criteria decision-making, theory of planned behavior, norm-value-belief, community-based social marketing, and structured decision-making. Students will build skills in stakeholder engagement and science communication.

ENVS 158. Wetlands Ecology. 3 Units
Term Typically Offered: Fall only

Introduces and discusses characteristics of wetland systems; principles of wetland ecology; functions of wetlands; and regulations and permitting process regarding development near and within wetlands. Appropriate for students planning careers in natural resource management. Though not a substitute for professional training in wetlands delineation and functional assessment, students will gain a basis for such assessments. Familiarity with basic principles of chemistry, physics, and biology recommended.
Note: Field trips required.

Field trip(s) may be required.

ENVS 163. Ethnoecology. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall only

Evaluates sustainable management of ecosystems by local indigenous people, using traditional resource management, traditional ecological knowledge and Western science. Familiarizes students with the fields of ethnobiology, ethnoecology, and historical ecology. Students learn about the relationship between people and plants, with a focus on how traditional plant knowledge reflects and is reflected by environmental perceptions.
Note: Field Trip. Required field trip to Chawse Indian Grinding Rocks State Park. Fee Course. $15 per student.

Fee course.
Field trip(s) may be required.

ENVS 165. American Environmental History. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Traces the development of the changing relationship between human society and the natural environment. Focuses on changing attitudes and behaviors toward the environment from the pre-colonial era through the present. Also examines the relationship between industrialization and the technological revolution and nature and examine past and present conservation and environmental movements.
Cross Listed: HIST 165; only one may be counted for credit.

ENVS 171. Environmental Politics and Policy. 3 Units
Prerequisite(s): instructor permission.
Term Typically Offered: Spring only

Politics of human interaction with land, air and water. Political analysis of agenda setting, policy formation and administration (national, state and local) of environmental programs. Focus on contemporary issues such as energy alternatives, management of toxics, land development, and pollution control. Course also substitutes for ENVS 128.
Cross Listed: GOVT 171; only one may be counted for credit.

ENVS 175. Aquatic Pollution Assessment. 3 Units
Prerequisite(s): BIO 160, CHEM 1A or concurrent enrollment; or instructor permission.
Term Typically Offered: Fall, Spring

Examines both the negative and positive impacts that anthropogenic effects have on groundwater, streams, and lakes by utilizing the application of field sampling techniques and laboratory analysis currently used to assess pollution impacts. Introduces the interrelationships among plants, animals and environmental factors within polluted aquatic ecosystems. Emphasizes laboratory and field procedures used in strategies taken to assess and manage these impacts.
Note: Course also substitutes for ENVS 121.

ENVS 186B. Ecological and Environmental Issues Seminar. 1 Unit
Prerequisite(s): BIO 10 or both BIO 1 and BIO 2.
Term Typically Offered: Fall, Spring

Series of at least 10 seminars in ecological and environmental issues. Topics with each seminar will vary each semester.
Note: May be repeated for credit. No more than one unit of ENVS 186B may be counted toward the upper division major requirement. Cross Listed: BIO 186B; only one may be counted for credit.

Credit/No Credit

ENVS 187. Environmental Studies Seminar. 1 Unit
Term Typically Offered: Fall, Spring

Students will participate in the semester-long University seminar and will be exposed to a variety of environmental issues and topics presented by speakers from CSUS, the USGS, government and professional organizations, among many others. Topics include issues such as climate change, water use and conversation, environmental sustainability, environmental policy and decision-making, and many important regional issues.
Credit/No Credit

ENVS 190. Senior Thesis. 3 Units
Prerequisite(s): Instructor permission and completion of all lower and upper division Environmental Studies courses.
Term Typically Offered: Fall, Spring

Explores an environmental problem or issue in great depth. It includes a detailed review of the scientific literature, synthesis, and integration of information from the literature, and evaluation of the information leading to conclusions and recommendations that address the problem or issue. Thesis subjects are chosen by the student, and can be from a myriad perspectives addressed in the Environmental Studies curriculum including scientific, social, political, economic, and cultural issues.

ENVS 195. Environmental Studies Internship. 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience in an approved legislative or administrative office at some level of local, state or federal government, or in a public or private organization that is concerned with the environment. Supervision is provided by the faculty instructor and responsible officials in the work situation.
Note: Open to majors only, subject to instructor permission.

Credit/No Credit

ENVS 195M. Mini Internship. 1 Unit
Term Typically Offered: Fall, Spring

This introductory work experience is designed for sophomores and juniors. The student must complete 45 hours of environmentally related work in a volunteer position with an environmental organization or participation in an environmentally focused event. Supervision is provided by the faculty instructor and responsible officials in the work situation.
Note: Open to majors only, subject to instructor permission.

Credit/No Credit

ENVS 196G. Youth Recreation in Camp Settings. 3 Units
This course examines camp programs in a wide variety of settings, for a variety of populations. Topics cover camp theories, camp management, risk-management, activity planning, inclusive programming, and staff training. Includes an emphasis on leadership, supervision, and organizational development of camp programs. Course uses lecture, field experiences, guest speakers, and service learning.

ENVS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who are competent to carry on individual work. Admission requires permission of the Director and the faculty member who will direct the work.

Credit/No Credit

ENVS 295. Practicum. 2 - 6 Units
Prerequisite(s): Permission of faculty advisor and director.
Term Typically Offered: Fall, Spring

Graduate internship experiences in practical setting.
Note: Open only to graduate students specializing in environmental studies.

Credit/No Credit

ENVS 296. Experimental Offerings in Environmental Studies. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Courses offered on an experimental basis.

ENVS 299. Special Problems: Individual Study. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

Ethnic Studies (ETHN)

ETHN 1A. Elementary Swahili. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the language of Swahili speaking people. Emphasis is on developing vocabulary and writing skills. Attention will be given to understanding the relationship of language to culture.

ETHN 1B. Elementary Swahili. 3 Units
Prerequisite(s): ETHN 1A or its equivalent; or instructor permission.
Term Typically Offered: Fall, Spring

Continuation of ETHN 1A with more emphasis on developing reading and listening skills along with further developing writing abilities. Provides deeper knowledge of the customs, traditions and experiences of Swahili speaking people.

ETHN 10. Africa: Myths and Realities. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to African Studies. Examines the most common myths found in both popular and academic literature about Africa and its people.

ETHN 11. Introduction to Ethnic Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Introduces the diverse institutional, cultural, and historical issues relating to the past and present life circumstances of Asian Americans, Mexican Americans, Black Americans, and Native Americans. Designed to introduce students to information presented in upper division courses with ethnic studies content.

ETHN 11H. Introduction to Ethnic Studies (Honors). 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Introduces the diverse institutional, cultural, and historical issues relating to the past and present life circumstances of Asian Americans, Mexican Americans, Black Americans, and Native Americans. Focuses may include leadership, identity development, problem solving skills, community organizing and empowerment. Designed to introduce students to information presented in upper division courses with ethnic studies content.
Note: Fulfills the General Education requirements of Area D1A (Foundations in the Social and Behavioral Sciences) as well as the General Education Honors Program.

ETHN 14. Introduction to Asian American Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to the basic concepts, theoretical perspectives, and research methodologies in comparison to other social science disciplines. The intersection of class, race/ethnicity, and gender of various Asian American and non-Asian American groups will be explored from a socio-historical perspective.

ETHN 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills.
Note: Only open to students admitted to EOP Learning Communities Program.

ETHN 30. Introduction to Chicano/Latino Studies. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring

Introduction to exploring the Chicano/Latino experience in the U.S. An overview of the diverse and multiple experiences of people of Mexico, Cuba, Puerto Rico, Dominican Republic, Central and South America. From a socio-historical perspective, the intersections of class, race/ethnicity, and gender will be explored.

ETHN 50. Native American Religion and Philosophy. 3 Units
Term Typically Offered: Spring only

In-depth study into the principles of Native American religion and philosophical thought and the resulting impact of European culture upon the Native American societies.

ETHN 53. Introduction to Native American Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Broad overview to the field of Native American Studies, including history, sovereignty, popular imagery, economic development, literature, philosophy, religion, urbanization, gender, social issues, and cultures of native peoples. Introduction to Native American Studies; recognizes intra-tribal, trans-national, and various historical, cultural, and political relationships, and issues through an interdisciplinary approach. The primary focus will be post 1900.

ETHN 70. Introduction to Pan African Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Introduction to Pan African Studies. It is intended to introduce students to the context from which Pan African Studies arose, including the Western intellectual tradition, and to consider the substantive objections to Pan African Studies as a legitimate academic discipline. It is intended to show humanities and social science emphases of the discipline, and the interdisciplinary character of the discipline as a whole. Upon completion, students should have a broad exposure to the subject matter of the discipline, an acute appreciation of some of its philosophical concerns, a recognition of some of the principal methodologies employed by its scholars, some familiarity with major scholars in the discipline, and the ability to explore these subjects independently.

ETHN 71. Leadership in the African Diaspora. 3 Units
Term Typically Offered: Spring only

Provides students with an understanding of the unique contours of leadership throughout the African Diaspora through an interdisciplinary approach to understanding particular problems, necessities and styles of leadership. Examines leaders and leadership roles within the African Diaspora with an emphasis on a variety of positions and contexts in the areas of politics, religion, art, and education, including the international, national, and local community (grassroots) arenas.

ETHN 72. Black Images in Popular Culture. 3 Units
Term Typically Offered: Fall, Spring

This course is designed as a survey of the Black image within popular culture. Students will interrogate the roots of African American stereotypes within North. American culture. Through an understanding of this history, we will assess how these stereotypes have evolved over time and the role they have played in constructing and positioning African Americans in American society. Students examine the ways in which African Americans actively construct images of themselves for a variety of political and social purposes.

ETHN 94. CAMP Transition and Problem Solving. 3 Units
Term Typically Offered: Fall, Spring

Designed for CAMP students new to University life, form and functions. The three hour lecture/discussions per week are focused on assisting students with making a successful transition to the University.
Note: May be repeated once for credit.

Credit/No Credit

ETHN 96B. Contemporary Issues and Social Change. 3 Units
Term Typically Offered: Fall, Spring

Generation after generation, university students have been key constituents in movements for social change. From public demonstrations to research studies, colleges and universities afford countless opportunities for students to advocate for a better world. This course explores how students can utilize university resources to explore interests and concerns, hone academic skills and contribute to social change.

ETHN 98. Co-Curricular Activities. 1 - 3 Units
Term Typically Offered: Fall, Spring

Co-curricular activities related to the subject matter and intellectual concerns in Ethnic Studies.
Note: Recommended for students new to the university experience and students having completed fewer than 45 units of course work. May be repeated twice for total credits not to exceed 6 units.

Credit/No Credit

ETHN 100. Ethnic America. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring, Summer

Through an interdisciplinary approach, introduces the four major American ethnic groups - Black, American Indian, Chicano, Asian American. Focuses on themes common to all four groups (racism, economic and political oppression) and demonstrates the varied contributions of each culture to American social and economic life.

ETHN 110. The Asian American Experience. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Survey of the experiences of various Asian groups in the U.S. from the mid-nineteenth century to present. The historical forces affecting the immigration and settlement patterns of Chinese, Japanese, Filipinos, Koreans, Asian Indians and Southeast Asians (Vietnamese, Cambodians, Laotians) will be compared and contrasted. Students will analyze the problems resulting from limited access to the social, political, and economic institutions of U.S. society.

ETHN 111. Southeast Asians in the US. 3 Units
Term Typically Offered: Spring only

Examine several issues and factors shaping the experiences of recent immigrant groups (Vietnamese, Mien, Hmong, Cambodians, Laotians) from Southeast Asia to the U.S. Focuses on the dynamic relationship between ethnicity, minority assignment and social integration as these effect the experiences of these immigrant groups.

ETHN 112. Contemporary Asian American Issues. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines several important social issues such as emerging communities, education, employment and occupations, anti-Asian violence, media images and stereotypes, families and identities, and political empowerment shaping the contemporary experiences of diverse Asian American groups.

ETHN 113. Asian American Communities. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of the historical and contemporary experiences of various Asian American communities through active investigation. The concepts, methods, and theories commonly utilized in community research will be covered.

ETHN 114. Asian Americans and Globalization. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of the Asian American immigration within the context of the larger Asian global migration. Emphasis will be placed on the period from the 16th century to the contemporary Asian global migration. A critical examination of the perspectives on the Pacific region and how the economic, social, political and historical forces affected migration and the formation of Asian global communities.

ETHN 115. Biracial and Multiracial Identity in the US. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Examination of biracial/multiracial populations, their social histories, social experiences and social identities within various sociological and social psychological theoretical frameworks. An exploration of the relationship biracial/multiracial groups have had, and continue to have, with the larger white majority and monoracially identified minorities.

ETHN 116. Asian American Politics and Public Policy. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Critical examination of the historical and contemporary political experiences of Asian Americans and their pursuits of immigration rights, citizenship, political identity, equality, freedom, and incorporation into the U.S. political system.

ETHN 117. Black Political Thought. 3 Units
Term Typically Offered: Spring only

To systematically and analytically introduce the predominant political trends and concepts presently entertained and harbored in the Black Community. A necessary adjunct to this dialogue is the racist theme in American society since on balance this is the matrix out of which the political alternatives and concepts grew.
Cross Listed: GOVT 117; only one may be counted for credit.

ETHN 118. Asian American Women. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Using an interdisciplinary approach, course offers a broad introduction to the principle values and traditions shaping Asian American women's lives in the U.S. Examines cultural diversity, gender inequality and conflicts between traditions and social practices through critical analysis of literature, film and cultural theories as expressions of identity. Topics covered include: cultural heritage and philosophies, intergenerational conflict, transnationalism, gender roles and socio-economic practices. Provides comprehensive understanding of principle factors governing Asian American women's lives at the nexus of Asian and American cultures.
Cross-listed: WOMS 118.

ETHN 119. The Filipino American Experience. 3 Units
Term Typically Offered: Fall, Spring

Overview of the Filipino American experience from the 16th century to the present. Immigration and settlement of Filipinos in the U.S. will be critically examined within the context of historical, social, economic, and political forces in American society. How the Filipino labor market status, race, class, and sex/gender relations affected the evolution and formation of Asian American communities will be critically examined.

ETHN 121. Hmong American Experience. 3 Units
Term Typically Offered: Fall only

Explores the historical and cultural background of Hmong Americans. Major emphasis is on the many experiences of the Hmong Americans including the social, economic, and political conditions that prompted their migration from Laos to the U.S. Explores the complex patterns of Hmong American acculturation in relation with other Asian and non-Asian immigrant groups.

ETHN 122. Sikh Americans and Globalization. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Examines the history and migration of Sikhs throughout the world, including the United States. Topics include the origin of Sikhism, Sikh history/religion/culture/social institutions and social relations, direct and secondary migration, race and ethnic relations, second-generation identity issues, and global diaspora/transnationalism.

ETHN 130. Chicano/Mexican-American Experience. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Transmits knowledge and understanding of how racism confronts and divides American society. Attention will be given to the effects of racism on the experiences of Chicanos/Mexican Americans in American society.

ETHN 131. La Raza Studies. **3 Units**
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Ethnohistorical analysis of La Raza Cosmica designed to convey crosscultural knowledge and understanding of peoples from Mexico, Cuba, Puerto Rico and Central America. Includes a comparative analysis of ethnic identity and a survey of socio-cultural, political and economic changes which have influenced U.S./Latin American policy and immigration patterns of Latinos to the U.S.

ETHN 132. La Mujer Chicana. **3 Units**
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Critical analysis of the cultural influence that the family, community, religion, economic status and peers play upon the decisions, the values and roles held by Chicanas. An examination of the processes which have resulted in the change of attitudes, values and roles of the contemporary Chicana.

ETHN 133. Crosscultural Aging in America. **3 Units**
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Examines aging crossculturally among ethnic groups in America. Emphasis will be placed on a review of the current literature on aging and ethnicity. Also examines changing roles and values in Black, Hispanic, Asian and Native American families.

ETHN 136. US Mexican Border Relations. **3 Units**
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Contemporary issues affecting the daily lives of people living in the U.S. - Mexico Borderlands. Theories, gender issues, political, economic and social relationships on both sides of the border will be examined.

ETHN 137. Race and Ethnicity in Latin America and Caribbean. **3 Units**
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Socio-economic, historical and contemporary issues affecting the various peoples living in the Latin America and the Caribbean. We will examine the intersection of race and ethnicity as well as class, gender, and identity, with attention paid to the contributions and presence of Asians, Africans, Europeans, and Indigenous peoples.

ETHN 140. Native American Experience. **3 Units**
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Advanced course in American Indian history, political and social relations, with emphasis upon current movements and problems of Native American life.

ETHN 141. Politics of the African Diaspora. **3 Units**
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall only

Examines the social, political, cultural, and economic factors which have been important to the African diaspora. Examines how African people have responded to those factors, both in terms of formal, political thought, and in terms of political movements and political institutions. Examines thought and proactive, comparability to Africa, U.S., Caribbean, Central and South America.
Cross Listed: GOVT 141; only one may be counted for credit.

ETHN 142. Native American Tribal Governments. **3 Units**
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines the regulatory powers that American Indian tribes possess over their peoples and territories. Students will acquire an understanding of tribal governmental history, internal affairs, jurisdictional conflicts, government relations, federal Indian public policy and economic development. The political aspects of tribal government administration and the emergence of self-governance as a foundation for self-determination, development and sustainability will be explored.

ETHN 143. American Indians, Film and Popular Culture. **3 Units**
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Students will examine various ways American Indians are imagined by popular culture through film, including drama, comedy and documentary. Beyond identifying and analyzing images of Indians as well as myths about their historical and contemporary circumstances, students will be challenged to investigate and understand the tenuous relationship between fact and fiction in popular culture.

ETHN 145. Native Voice, Memory, and Biography. **3 Units**
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Through the genre of biography and autobiography, students will examine the relevance of Native voice and memory in reference to the development of identity, cultural transformation, indigenous knowledge, political activism, and historical consciousness. Students will analyze the political, economic and cultural contexts in which Native voices and memories emerge.

ETHN 150. Native American Oral Tradition and Storytelling. **3 Units**
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Study of how Native American oral tradition and storytelling affect the experience of tribal expression. Examines the foundation of this tradition through an analysis and comparison of traditional and contemporary forms.

ETHN 151. Native American Women. 3 Units
Term Typically Offered: Fall only

Examination of the traditional, non-traditional, and contemporary roles of Native American women. The relationship of these roles to both Indian and non-Indian societies. An exploration of Native women's issues through histories, literatures, and oral traditions, focusing on Native American women's perspectives. Colonization has drastically impacted native women and the lives of their families, nations and communities. Resistance and de-colonization efforts by Native women will be illuminated and analyzed.

ETHN 152. American Indians, Sovereignty and US Laws. 3 Units
Term Typically Offered: Spring only

Examines the legal history developed between American Indians and Euro-Americans. Includes an introduction to events, circumstances, and relationships that developed social and legal concepts. There will be an examination of constitutional principles, laws and United State's policies from the early 1800's to the present and the impacts of these doctrines on American Indian sovereign powers. The students will acquire a basic understanding of the sources of political conflict in contemporary American Indian communities and American society.

ETHN 155. Genocide and Holocaust Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Examines genocide cases, such as the Armenian genocide, the Jewish Holocaust, the genocide of Roma, the Cambodian 'Killing Fields', genocide in East Timor, ethnic cleansing in Bosnia, the genocide of the Tutsi in Rwanda and genocide in the Darfur region of Sudan, as well as the genocide of Native Americans, and other indigenous peoples. Addresses causes of, and responses to, genocide around the world, especially in Africa, Asia and Latin America. This phenomenon is examined historically, descriptively, comparatively and theoretically.

ETHN 156. Indigenous People. 3 Units
Term Typically Offered: Fall, Spring

Common existential experiences of indigenous people all over the world namely the Batwa and Pygmies in Central Africa, the Khoisan of Southern Africa, the Berber in Northern Africa, the Sami in Northern Europe, the Basque in France and Spain, the Hawaiians in the Pacific, the Ainu of Japan, the Aborigines in Australia, and Native Americans in the Americas.

ETHN 161. Chicano/Latino Politics and Public Policy. 3 Units
Term Typically Offered: Fall, Spring

Explores the historical and contemporary development of Chicano/Latino political activity in the United States. Will review essential components of the U.S. political system and examines relevant theories and concepts that have impacted public policy debate related to education, employment, health, housing, immigration, and income inequity. Primarily focuses on the political history and present day circumstances of the three largest Latino groups, Mexican Americans, Puerto Ricans, and Cuban Americans.

ETHN 166. American Indigenous Families: Issues and Perspectives. 3 Units
Term Typically Offered: Fall, Spring

Application of research and theory specific to Latino/Chicano and American Indian families; strategies for applying this knowledge to areas of service, therapy, policy, and education. Lecture/discussion, internet enhancement.
Cross Listed: FACS 166A; only one may be counted for credit.

ETHN 167. Asian American Families: Issues and Perspectives. 3 Units
Term Typically Offered: Fall, Spring

Family is an adaptable and changing institution of society. Research and theory on Asian American families will be highlighted with an emphasis on applying the information to areas of service, therapy, policy, and education. Experiences of various Asian groups in the U. S. will be compared.
Cross Listed: FACS 166B; only one may be counted for credit.

ETHN 170. Pan African Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Investigation into the subjective aspects of Pan African Studies (Black Studies). Covers such topical areas as the struggle by Black Americans for education, the genesis of the Black Studies movement, Black culture, institutional change, etc. The very nature of the course permits the coverage of a broad range of subject matter. Students are encouraged to take specific courses offered by the Pan African Studies program for more extensive investigation.

ETHN 171. African Religions and Philosophies. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Study of the African's concept of God with particular emphasis on His works, His relationship to His creations, and His worship. Also covers the concepts of evil, ethics, justice and various metaphysical ideas.

ETHN 172. Black Women In America. 3 Units
Term Typically Offered: Spring only

Examines the historical and social forces that shape the lives of Black women. Examines the Black woman's role in the family, community, work force and society in general.

ETHN 173. The Black Family in the United States. 3 Units
Term Typically Offered: Fall, Spring

Using the interdisciplinary approach, several institutional factors affecting the structure, evolution, and function of the Black Family unit in the U.S. will be studied. Permits a broad, yet systematic, examination of the Black Family in order to understand the several dynamics affecting the Black Family in particular and Black Americans in general.

ETHN 177. Topics In African Studies. 3 Units
Term Typically Offered: Fall, Spring

Special topics in African studies.

ETHN 177A. Genocide and Human Rights: Africa. 3 Units
This course focuses on the human rights abuses and Genocides that occurred in colonial and post-colonial Africa. It explores Genocide in Rwanda, Darfur, Namibia, and mass killings in Congo. It examines Campaigns of cultural Genocide, ideological pressure, and the involvement of former colonial powers in mass killings. Different approaches of conflict resolution such as the South African Truth and Reconciliation model will be examined. Causes and conditions of Genocide will be interpreted through interdisciplinary literature.

ETHN 179. Black Music and Black Consciousness. 3 Units
Term Typically Offered: Fall only

Provides students with an understanding of the essential role Black music assumes in the development of people of African descent throughout the Black Diaspora. Major topics include the historical development of Black music, the role of music in Black resistance and other forms of political behavior, the economic exploitation of Black music and the Black musician and the influence of globalization.

ETHN 180A. Forms of African-American Poetry. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Focuses on four or more African-American poets, representing a historical succession of literary periods.

ETHN 180B. Forms African-Am Fiction. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Focuses on four or more African-American writers of fiction, surveying texts representing a historical succession of literary periods.

ETHN 181. Cinematic Representations of Pan African Identities. 3 Units
This course is designed as an intensive survey of African American cinema that engages questions of history, culture, politics and the overall function of race and representation in American society. Our focus in this class is to understand Pan African filmmakers and their respective films. We will focus on cultural factors intrinsic to Pan African societies and how cinema fits into this context, as well as how issues of gender, sexuality and class impact the films.

ETHN 182. Protest in Hip Hop. 3 Units
This course is designed to be an intensive survey of the evolution of hip hop as a form of social protest that developed into a global cultural movement. The course draws parallels from hip hop's historical function with past and present U.S. social movements advocating for social justice, including the recent #BlackLivesMatter movement. Students will also examine cultural studies theoretical concepts analyzing mainstream's exploitation and marginalization of race, class, gender and sexuality representations in hip hop.

ETHN 194. Research in Ethnic Studies. 3 Units
Prerequisite(s): One upper-division Ethnic Studies course.
Term Typically Offered: Fall, Spring

Designed to provide students with contemporary theoretical knowledge and practical skills for conducting research in the Asian American, Black American, Chicano, and Native American communities. Methodology which addresses issues and research perspectives distinctly germane to researching a targeted community is examined.

ETHN 195A. Ethnic Studies Fieldwork. 1 Unit
Prerequisite(s): Ethnic Studies majors only
Corequisite(s): ETHN 195B
Term Typically Offered: Spring only

Allow students, with faculty supervision, to work closely with the ethnic minority communities. Students may work with a community agency, community organization, or other site with instructor approval.
Credit/No Credit

ETHN 195B. Ethnic Studies Seminar. 2 Units
Prerequisite(s): Ethnic Studies majors only
Corequisite(s): ETHN 195A
Term Typically Offered: Spring only

Seminar discussions designed to synthesize and assess knowledge in Ethnic Studies courses applied to fieldwork experiences.

ETHN 198. Co-Curricular Activities. 1 - 3 Units
Term Typically Offered: Fall, Spring

Co-curricular activities related to the subject matter and intellectual concerns in Ethnic Studies. For example, students may earn ETHN 198 credits by participating in Ethnic Studies classes as tutors and/or section or discussion leaders; teaching as voluntary instructors or tutors in courses offered by community organizations.
Note: May be repeated twice for total credits not to exceed 6 units.

Credit/No Credit

ETHN 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Admission requires approval of the faculty member under whom the individual work is to be conducted, the appropriate program director and the Chair of Ethnic Studies.
Credit/No Credit

ETHN 203. Contemporary Ethnic Studies Issues. 3 Units
Prerequisite(s): MA Education (Multicultural Education) Students only.
Term Typically Offered: Fall only

Examines important social issues that shape the contemporary experience of African Americans, Asian Americans, Latinx/Chicanx, and Native Americans. Social issues such as: 1) Discrimination and violence, 2) Economic inequality (employment, income, wealth, retirement), 3) Educational challenges, and 4) Global context of race and class inequality.

ETHN 204. Foundations & Theories. 3 Units
Prerequisite(s): MA in Education (Multicultural Education) students only.
Term Typically Offered: Spring only

Foundations and theories in Ethnic Studies, identifies, analyzes, and critically examines the experience of African Americans, Asian Americans, Latinx/Chicanx, and Native Americans.
Note: This course is a lecture/discussion that is 45 hours, 3-unit course offered in eight weeks (including several Saturdays).

ETHN 299. Special Problems/Individual Study. 3 Units
Term Typically Offered: Fall, Spring

Open to classified and unclassified graduate students. Allow qualified students to explore topics, issues, and subjects pertinent to ethnic groups in the U.S.
Credit/No Credit

Executive Masters in Business Administration (EMBA)

EMBA 210. EMBA Orientation. 1 Unit
Prerequisite(s): Acceptance to the EMBA Program.
Term Typically Offered: Fall, Spring

Includes individual introductions, program overview (content and administrative policies and practices), overviews, critical thinking seminar, seminar on academic research methods and tools, introduction of on-line technologies for instructional-related activities, and team building activities.
Credit/No Credit

EMBA 222. Managerial Accounting for Executives. 3 Units
Prerequisite(s): EMBA 210.
Term Typically Offered: Fall, Spring

Consistent emphasis on managerial accounting and reporting is cost identification, allocation and control. Expands the traditional view of accounting to include an examination of the integration of the historic three tools with cost elements. Expanded view would include environmental and political costs, compliance with multinational reporting standards, tax compliance and treaty cost.

EMBA 223. Quantitative Methods for Decision Making. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Presents how business decisions are now made in an increasingly competitive and complex business environment. The emphasis will be on how to better respond to this challenge by using quantitative methods to forecast, extrapolate, analyze, and simulate a business situation for effective decision-making. Cases studies will be used to develop those capabilities.

EMBA 224. Managerial Finance for Executives. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Provides students a well-rounded understanding of the language and financial expectations/performance of organizations. Candidates will learn how to evaluate decisions from the perspective of shareholder and stakeholders. With this perspective they will be better equipped to make better business decisions and also understand the financial impact of those decisions.

EMBA 225. Organizational Design and Management. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Review the organization theory from a macro perspective (structure, process, technology, people, and culture). Special attention will be paid to organization structure, human resources, design, control, culture and inter-organizational relationship.

EMBA 226. Technology Management for Executives. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Covers the major challenges organizations deal with today as they attempt to manage their key technological resources as well as with implementing technological innovations. Addresses the digital opportunities and threats organizations face from senior management perspectives.

EMBA 227. Strategic Marketing Management. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Presents how modern marketing principles can be applied to real-world situations. The emphasis will be on studying strategies used by organizations in today's highly competitive and evolving marketplace. Case studies will be utilized to fully develop techniques for creating marketing programs given varying levels of resources and information available under diverse market conditions.

EMBA 228. Strategic Analysis for Executives. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Focuses on the competitive strategy of the firm and examines issues central to its long-term competitive position by utilizing the cutting-edge strategic approaches. Develops frameworks that are useful in analyzing a firm's competitive environment and developing firm-specific capabilities that contribute to its competitive advantage. Addresses the economic logic and administrative challenges associated with horizontal diversification, vertical integration and global expansion.

EMBA 229. Leadership and Change Management. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Introduce the concept of leadership in business organizations. Key themes: leading teams and leading during times of change. An integral part is to study current business leaders and analyze their leadership practices.

EMBA 241. Strategic Supply Chain Management. 3 Units
Prerequisite(s): EMBA 210, EMBA Orientation.
Term Typically Offered: Fall, Spring, Summer

Explores key issues in designing and managing sustainable production and service supply chains with an overview of effective supply chain strategies and decision processes in a globally changing business environment. This course provides a set of strategic frameworks and analytical tools to help executives identify, evaluate, improve and optimize the financial outcomes and sustainability of supply chains.

EMBA 242. Product and Brand Management. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

An organization's products and services are among the most important determinants of its ultimate survival and success since organizations rely on repeat business. No organization can survive over the long term if its products and services do not serve the needs of its customers, whether they are external or internal to the entity. Focuses on developing successful products and services as an on-going and iterative process. It explores customer needs and expectations change, the dynamics of the marketplace make, and the need to continually refine and improve the product and service offerings. Attention is given to how and when products must be modified over time to achieve their maximum potential, and eventually eliminated so resources can be directed to new products and services with greater long-term value.

EMBA 243. Legal Issues in Business Environment. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Addresses sales contracts, employment law, alternative dispute resolution, intellectual property, and antitrust matters. Covers the interaction between a client and an attorney, how to use and communicate with a lawyer, and how to make legal-executive decisions. In all components, the course stresses ethical standards and the responsible roles of businesses in society.

EMBA 244. Corporate Performance Measurements. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Introduces models to evaluate uncertain project outcomes, financial methods to estimate the intrinsic worth of the firm, metrics to evaluate firm performance in terms of shareholder value created, tools to analyze shareholder wealth consequences of corporate restructuring activities, and discusses the ethical implications of corporate restructuring activities. An additional dimension of metrics will include human based metrics such as performance reviews and human development.

EMBA 245. Competing in the Global Marketplace. 3 Units
Prerequisite(s): Completion of orientation course.
Term Typically Offered: Fall, Spring

Presents the principles of effective international management in a complex global environment of interactive socio-cultural, economic, and political forces. Covers competitive strategies in the rapidly growing globalization and addresses what today's networked economy offers.

EMBA 246. Managing Creativity and Innovation. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Provides students with a strong theoretical foundation and a set of practical tools for the management of creativity and innovation. It will help students understand the innovation process and rethink an organization's human resources strategy and transform it into system that will promote growth and effectiveness at all levels of the organization. Provides a framework for a learning organization to recognize failures, disruptive technologies, and strategies to overcome them.

EMBA 247. Executive Decision Making. 3 Units
Prerequisite(s): Completion of EMBA Program.
Term Typically Offered: Fall, Spring

Provides a framework for analyzing and identifying key management issues as well as developing plans for action. Focuses on identifying what managers do, what distinguishes effective management, how managers make decisions, and what makes a company excellent.

EMBA 248. Project Management for Executives. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Covers the knowledge and skills as well as the principles and practices required to organize, plan and control projects of all sizes. Topics covered: a review of project characteristics and vulnerabilities, development of managerial philosophy and execution objectives, organization structure and interfaces, and management and control techniques.

EMBA 249. Management in the Public Sector. 3 Units
Prerequisite(s): Completion of EMBA 210.
Term Typically Offered: Fall, Spring

Managing public sector organizations requires unique skill sets. Governmental entities serve multiple constituencies, some of which may have differing and competing objectives and needs. Their customers include those who utilize the entity's products and services, taxpayers who fund the organization, publicly elected officials who set new directions with every change in administration, oversight groups which monitor governmental activities, and the ever-watchful media. Accordingly, managers in the public sector need to function effectively in highly volatile and political environments. Traditional and innovative management practices have to be tempered by political realities and the public's emphasis on service with accountability. Managers have to perform their traditional roles while also being public relations specialists in dealing with the various constituencies of the public sector entity.

EMBA 260. EMBA Individual Project. 4 Units
Term Typically Offered: Fall, Spring

EMBA 296. Experimental Offerings in Executive Management. 3 Units
Term Typically Offered: Fall, Spring

When a sufficient number of qualified students apply, a faculty member may conduct a seminar on a designated advanced topic in executive management.
Note: May be repeated for credit

EMBA 299. Special Problems in Executive Management. 1 - 3 Units
Prerequisite(s): Classified graduate status or instructor approval.
Term Typically Offered: Fall, Spring

Individual projects or directed reading with examination for students qualified to carry on independent work.
Note: Enrollment requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions to be obtained from the Graduate Business Advising Center (GBAC).

Family and Consumer Sciences (FACS)

FACS 100. Research: Methods and Application in Family and Consumer Sciences. 3 Units
Prerequisite(s): 6 FACS units completed. FACS majors only
Term Typically Offered: Fall, Spring, Summer

Study of methods and application of research in the field of Family and Consumer Sciences. Focus on scientific inquiry, methodology, evidenced-based practice, interpretation of research results, program and project evaluation., and professional communication. Includes the examination of ethical practices, professional presentation skills, and technical writing skills.

FACS 128. Consumer Technologies and Environments. 3 Units
Term Typically Offered: Fall, Spring

Study and analysis of technologies, durable goods, and environments in home and workplace and their impact on quality of life. Principles of equipment and product design, selection and safety; space planning; consumer decision making. Examination of issues related to energy management, shelter, housing and access to technology. Lecture, field trips two hours; activity two hours.
Field trip(s) may be required.

FACS 140. Family Resource Management. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Management of resources in family systems. Interaction of families with other societal and environmental systems in acquiring and using resources to meet goals and other demands.

FACS 141. Family Finance. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Economic problems of and financial management by the individual and family. Topics include: income patterns, inflation, credit, contracts, housing, financial services, insurance, taxes, investments, retirement income planning.

FACS 142. Consumer Issues. 3 Units
Term Typically Offered: Fall, Spring

Study of effect of consumer movements on protection of consumer rights. Current issues include marketplace fraud and redress; consumer information, education, and decision-making; privacy and environmental concerns; and advocacy for vulnerable consumer groups.

FACS 143. Consumer Policy. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150 or instructor permission.
Term Typically Offered: Fall, Spring

Examination of consumer policy and regulations. Emphasis on consumer products, including food and drugs, housing, and credit. Strategies for promoting consumer advocacy. Lecture, discussion, field trips.
Field trip(s) may be required.

FACS 147. Financial and Legal Aspects of Aging. 3 Units
Prerequisite(s): FACS 141 or instructor permission.
Term Typically Offered: Fall, Spring

Economic status, financial and consumer issues, legal rights and responsibilities and resource management for aging persons. Emphasis on financial planning for retirement and estate planning. Lecture, discussion, case studies.

FACS 149. Family Financial Counseling. 3 Units
Prerequisite(s): FACS 141 and senior status.
Term Typically Offered: Fall, Spring

Examination of professional issues in family financial planning including ethical considerations, regulations, communication skills, and professional responsibility. Development of skills needed by family financial counselors to counsel families with financial problems. Lecture, discussion, case study, counseling sessions.

FACS 156. Child Life and Family-Centered Care. 3 Units
Prerequisite(s): FACS 52 or CHDV 30 or CHDV 35 or a course in child development/human development, covering at least birth through adolescence with instructor permission.
Term Typically Offered: Summer only

Overview of the Child Life profession and child life practices. Focus on family-centered care for children in the healthcare environment and their families. Major course topics include: scope of practice in child life; ethical and professional practice; impact of illness, injury and health on patients and family; techniques and outcomes of preparation; therapeutic play; grief and bereavement.
Note: This course is designed to meet the specifications set forth by the Association of Child Life Professionals (ACLP) for the child life course required for certification as a Certified Child Life Specialist (CCLS)

FACS 166A. American Indigenous Families: Issues and Perspectives. 3 Units
Term Typically Offered: Fall, Spring

Application of research and theory specific to Latino/Chicano and American Indian families; strategies for applying this knowledge to areas of service, therapy, policy, and education. Lecture; discussion, Internet enhancement.
Cross Listed: ETHN 166; only one may be counted for credit.

FACS 166B. Asian American Families: Issues and Perspectives. 3 Units
Term Typically Offered: Fall, Spring

Family is an adaptable and changing institution of society. The course will highlight research and theory on Asian American families with an emphasis on applying the information to areas of service, therapy, policy, and education. A comparison of the experiences between various Asian groups in the U.S. will be stressed. Lecture, discussion, Internet enhancement.
Cross Listed: ETHN 167; only one may be counted for credit.

FACS 168. Senior Seminar. 3 Units
Prerequisite(s): 21 FACS units.
Term Typically Offered: Fall, Spring

Designed to synthesize knowledge in Family and Consumer Sciences. Examination of the concentration in the major and career exploration. Analysis of public policy and ethical issues, professionalism and leadership strategies. Includes personal and professional competency assessment and development of an academic and professional portfolio.

FACS 195A. Field Study: Selected Areas in Family and Consumer Sciences. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Guided study and experience in some area within Family and Consumer Sciences in which the student needs orientation or greater depth of study in a specialized field.
Credit/No Credit

FACS 195C. Internship. 1 - 3 Units
Prerequisite(s): Upper division status; instructor permission obtained in the preceeding semester; 2.5 GPA or above.
Term Typically Offered: Fall, Spring

Directed observation and supervised work experience in an approved business, government, or service agency. Internships are offered for the purpose of increasing student understanding of the nature and scope of agency operations and giving students orientation in occupational specialties. Supervision is provided by authorized persons in the cooperating agencies and collaborative supervision is provided by the Family and Consumer Sciences faculty. Each student is required to maintain a record of activities and assignments and to prepare periodic reports.
Note: Student must make arrangements with a faculty member for a work program one semester prior to admittance to the course. A minimum of three hours per week per unit of credit is required.

Credit/No Credit

FACS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

Family Studies and Human Development (FSHD)

FSHD 50. The Family and Social Issues. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: F_S_S_W

Family structure, systems and functioning in marriage and other partnerships, parenting, work issues, domestic violence, divorce, and remarriage. Focus on social issues including gender, race, ethnicity, and class. Historical and theoretical perspectives on families in America. Introduction to research in family sciences and public policy implications. Lecture, discussion.
Note: Not open for credit to students who have taken SOC 5.

FSHD 52. The Child In The Family. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Physical, social, emotional and cognitive development of the child, conception through adolescence, in relation to the family. Strong theoretical emphasis. Introduction to methods of study, including observation and interview. Lecture, discussion, fieldwork.
Note: Not open for credit to students who have taken CHDV 137, CHDV 138, or PSYC 148.

FSHD 108. Family Communication. 3 Units
Prerequisite(s): COMS 8, FACS 50, SOC 166, or instructor permission.
Term Typically Offered: Fall, Spring

Study of the family as a small group with emphasis on understanding and interpreting the dynamics of family communication using various communication and social-psychological theories. Opportunity to develop an analytical framework.
Cross Listed: COMS 108; only one may be counted for credit.

FSHD 150. Family Stress and Coping: Multicultural Focus. 3 Units
Prerequisite(s): FACS 50 or equivalent with instructor permission, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer

Study of multicultural families and diverse family forms, with a focus on how families function under stress. Family theory and research are applied to the interpretation and analysis of selected literary work, both in print and film formats.

FSHD 152. Adolescent Development. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or FACS 52, or instructor permission.
Term Typically Offered: Fall, Spring

In-depth study of the achievements and challenges associated with the adolescent stage of development. Focus on understanding the needs and motivations of adolescents and the challenges they face within their socio-cultural environment. Lecture, discussion.
Note: Not open to students who have taken PSYC 149. Previous or concurrent enrollment in CHDV 133 strongly recommended.

FSHD 154. Issues in Parenting. 3 Units
Prerequisite(s): CHDV 30, or CHDV 35, or FACS 52, or instructor permission
Term Typically Offered: Fall, Spring

Survey of historical and contemporary attitudes toward parenting. Review of research on child-rearing and parent-child relationships. Use of case studies to explore the influence of personality, developmental stage, family structure, ethnic and cultural factors on parenting. Lecture, Case Study.
Note: Previous or concurrent enrollment in CHDV 133 strongly recommended. Cross-listed: CHDV 154; only one may be counted for credit.

FSHD 155. Family Life Education. 3 Units
Prerequisite(s): FACS 50; and FACS 100 or CHDV 133; and senior standing.
Term Typically Offered: Fall, Spring

Historical and philosophical perspective on family life education across the lifespan. Practice in curriculum development including content, objectives, and teaching strategies.

FSHD 159. Adulthood and Aging in Human Development. 3 Units
Term Typically Offered: Fall, Spring

Analyzes the interrelation between physical, psychological, and social development in the middle and later years of adulthood with attention to personal, family and community challenges and opportunities in their cultural context.

FSHD 162. Family Support Services. 3 Units
Prerequisite(s): A minimum of 12 units in FACS upper division family area courses.
Term Typically Offered: Fall, Spring

Application of family science to the development, implementation, and evaluation of family support services. Implications of research for practice with diverse families. Focus on developing skills in family-centered services, family-professional collaboration, and resource-based and asset-based intervention. Lecture two hours; fieldwork in the community three hours.

FSHD 195F. Practicum in Family Life Education. 1 - 3 Units
Prerequisite(s): senior status; GPA of 2.75 or above; NURS 160 or PSYC 134 or HLSC 134; and FACS 155.
Corequisite(s): If not taken as a prerequisite, FACS 155 may be taken concurrently with instructor¿s approval.
Term Typically Offered: Fall, Spring

Directed observation and supervised work experience in an approved educational setting, service agency, business or government agency that provides family life education. Students will move from observing and assisting to developing, delivering and assessing lessons and programs in family life education. Students will gain experience applying educational and developmental theories, curriculum development, and teaching methods to delivering evidence-based and culturally sensitive lessons in the content areas of family life education: parent education, strengthening relationships, and/or sexuality education.
Note: Students must make arrangements with the supervising faculty member one semester prior to admittance to the course.

Credit/No Credit

Fashion Merchandising and Management (FASH)

FASH 30. Fashion and Human Environment. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

This course serves as an introduction to the study of fashion and human environment and how fashion is perceived, marketed, and internalized within individuals across Western and non-Western cultures. A focus on both internal factors such as psychological, aesthetic and self-image, and external factors such as social, economic, cultural and political experiences will be addressed.

FASH 31. Textiles. 3 Units
Term Typically Offered: Fall only

Study of the characteristics of fibers, yarns, fabrics, and finishes. Emphasis on fabric performance, serviceability as they affect consumer satisfaction. Discussion of environmental concerns in the textile industry and laws relating to textile products.

FASH 32. Fundamentals of Apparel Production. 3 Units
Prerequisite(s): You must be a FACS major or FASH major to enroll in this course.
Term Typically Offered: Fall, Spring

Principles of fit and design. Applied basic construction with emphasis on standards and custom techniques. Characteristics of fabrics used; individual pattern adjustment. Lecture, discussion, demonstration one hour; laboratory four hours.

FASH 130. History Of Fashion. 3 Units
Term Typically Offered: Spring only

A study of dress in Western civilization from ancient times through the present. An interdisciplinary approach is used to examine how clothing communicates values displayed by the individual and functions as a reflection of trends in technology, political events, social ideals, and cultural developments such as art and music. Emphasis on the contributions and perspectives of women as well as differing roles in the production, dissemination, and consumption of clothing in relation to socioeconomic groups. Lecture, discussion.

FASH 131. Quality Analysis: Apparel. 3 Units
Prerequisite(s): FACS 31, FACS 32.
Term Typically Offered: Spring only

Analysis of apparel construction and production; current industrial and technological developments. Discussion of sizing and quality standards with emphasis on identification of fabrics, garment styles, finding and trims. Lecture, discussion, demonstration, field trips.
Field trip(s) may be required.

FASH 133. Creative Principles of Apparel Design. 3 Units
Prerequisite(s): FACS 30 and FACS 31
Term Typically Offered: Fall only

Study of the functional and aesthetic elements of apparel design. The creative process and development of illustrative techniques. Development of creative approaches through projects of experimental, contemporary and traditional techniques with emphasis on elements of design, and selection and organization of colors, forms, materials and accessories for apparel production. Studio-activity six hours.

FASH 134. Introduction to Fashion Industry. 3 Units
Term Typically Offered: Fall, Spring

Designed to develop an awareness and understanding of the total fashion industry including past, present and future directions of costume design, manufacturing, textiles, retailers' publications, buying offices, advertising and the consumer.

FASH 135. Merchandise Buying. 3 Units
Prerequisite(s): FACS 134.
Term Typically Offered: Fall only

Detailed study of merchandising mix, purchasing plan, inventory plan, assortment plan, pricing, markdown, markup, and reports. Review of planning and control processes and the buyer's role in merchandise management and decision-making. Lecture, discussion.

FASH 136. Fashion Retailing. 3 Units
Prerequisite(s): FACS 134.
Term Typically Offered: Spring only

A in-depth exploration of fashion retailing from different perspectives, including organizational structure, store location and image with a focus on visual merchandising techniques, and fashion advertising and promotion strategies. Lecture-discussion.

FASH 137. Clothing, Society, and Culture. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Study of the relationship of humans and clothing within their cultural and social environment. Introduction to the fundamentals of social psychology in the examination of clothing and appearance. Clothing and appearance are studied as forms of nonverbal communication and as devices for expressing cultural and social values.

FASH 139. Textiles and Apparel in the Global Economy. 3 Units
Prerequisite(s): FACS 134 or MKTG 101.
Term Typically Offered: Spring only

Overview of global factors affecting the textiles and apparel industries and trade, the impact of textiles and apparel industries on the economy and consumers, the US textiles and apparel in the global economy, and strategies for balancing conflicting interest.

FASH 146. Fashion Entrepreneurship. 3 Units
Prerequisite(s): FASH 134.
Term Typically Offered: Fall only

This course addresses the essentials of entrepreneurship in the fashion industry, including management, market segmentation, financial statements, cash flow, accessing capital, e-commerce, omni-channel retailing, and challenges facing emerging enterprises. Special emphasis is placed on the essentials of planning that are vital to entrepreneurial success, as well as a step-by step guide for starting a fashion business.

FASH 148. Fashion Law. 3 Units
Prerequisite(s): FACS 134
Term Typically Offered: Fall only

This course provides an overview of legal issues affecting the fashion industry and its professionals with an emphasis on fashion entrepreneurship, design, advertising and promotion, production, sourcing, marketing and retailing. Students will also learn about fashion regulatory and policy issues, intellectual property (copyright, trademarks, patents), contractual agreements, leasing, commercial operations and expansion, and the international development of a fashion business.

Film (FILM)

FILM 20A. Audio Production. 2 Units
Corequisite(s): FILM 20B.
Term Typically Offered: Fall, Spring

Introduction to the theory and practice of audio production in radio, television, film and recording applications.
Cross-listed: COMS 20A.

FILM 20B. Audio Production Lab. 1 Unit
Corequisite(s): FILM 20A.
Term Typically Offered: Fall, Spring

Experience in audio console operation, microphone selection and use, and audio recording in radio, television, film and recording applications.
Cross-listed: COMS 20B.

FILM 27A. Digital Film/Video Production. 2 Units
Corequisite(s): FILM 27B.
Term Typically Offered: Fall, Spring

Introduction to the techniques and aesthetics of digital film making. The course covers camera technique and cinematography.
Cross-listed: COMS 27A.

FILM 27B. Digital Film/Video Production Lab. 1 Unit
Corequisite(s): FILM 27A.
Term Typically Offered: Fall, Spring

Introduction to the techniques and aesthetics of digital film making. The course covers camera angles, basic lighting, framing, and non-linear editing techniques.
Cross-listed: COMS 27B.

FILM 97. Introduction to Film Studies. 3 Units
Term Typically Offered: Fall, Spring

Examines cinematic techniques, styles, vocabulary, and discourses. Introduces different ways for writing about films and for working with a variety of cinematic terms. Film form and style will be studied by examining specific scenes in films from different genres, nations, and directors. Film used throughout the course will be selected from different historical periods.
Cross-listed: ENGL 97.

FILM 105. Film Theory and Criticism. 3 Units
Term Typically Offered: Fall, Spring

Survey of film theory focusing on Auteurism, Class, Expressionism, Formalism, Genre, Gender, Narratology, Neorealism, Phenomonology, Post-Structuralism, Psychoanalysis, Realism, Semiology, Structuralism, and Third Cinema.
Cross-listed: ENGL 105.

FILM 121. Media Aesthetics. 3 Units
Term Typically Offered: Fall, Spring

Overview and analysis of the primary aesthetic tools used to create messages in video and film. The basic properties of light, color, area, space, shape, sound, time and motion are defined and discussed as they relate to media production. Introduces students to the concepts and vocabulary necessary for effectively conceiving, producing or criticizing mediated messages. Designed primarily for students with interest in digital media. Provides a foundation for students working in media criticism.
Cross-listed: COMS 121.

FILM 124. Writing Scripts for Film/Video. 3 Units
Prerequisite(s): ENGL 1A and ENGL 20.
Term Typically Offered: Fall, Spring

Developing narratives, documentaries, educational, promotional, and experimental short screenplays. Students are expected to develop a writing style and master screenwriting and audio/visual scripting formats. Scripts will be developed to be produced in advanced production courses: COMS/FILM 128 and COMS/FILM 185.
Cross-listed: COMS 124.

FILM 124F. Avant-Garde Film. 3 Units
Prerequisite(s): ENGL 97 or PHOT 102.
Term Typically Offered: Spring only

A survey of experimental films from the beginning of the cinema in the 1890s through today's avant garde. The course will emphasise film making as a means of personal, artistic expression and will pay particular attention to those aspects of cinema that are typically ignored or marginalized in mainstream Hollywood movies. Films we will study include those by: Melies, Porter, Richter, Leger, Cornell, Deren, Brackhage and Gehr.
Cross-Listed: INTD 124F.

FILM 128. Non-Studio Video Production. 3 Units
Prerequisite(s): FILM 20A, FILM 20B, FILM 27A and FILM 27B each with a grade of 'B-' or better.
Term Typically Offered: Fall, Spring

Production of video materials using portable cameras and recorders. Application of electronic field production and post-production techniques.
Cross-listed: COMS 128.

FILM 129. Film and Video Production Management. 3 Units
Term Typically Offered: Spring only

Management and administration of the preproduction and production process. Course to include script breakdown, budgeting, scheduling, and other preproduction and production management skills needed for film and video production. Special attention on the history, development and current practices of the Production Manager.
Cross-listed: COMS 129.

FILM 130. Staging and Lighting Digital Video. 3 Units
Prerequisite(s): FILM 20A, FILM 20B, FILM 27A and FILM 27B each with a grade of 'B-' or better.
Term Typically Offered: Fall, Spring

Introduction to the aesthetics, concepts and techniques used to control lighting in digital video productions. Aspects of staging, blocking and composition in the context of studio and location lighting.
Cross-listed: COMS 130.

FILM 141. Theory of Film/Video Editing. 3 Units
Prerequisite(s): COMS/FILM 27A and COMS/FILM 27B with final posted grade of C or better.
Term Typically Offered: Fall, Spring

Study of history and theory of film and video editing. Many films are viewed and discussed, examining how editing theory is put into practice.
Cross-listed: COMS 141.

FILM 155. Contemporary World Cinema. 3 Units
Term Typically Offered: Fall, Spring

A historical review of the development of major international film styles and themes. Theoretical and critical concepts derived from this study of international film and then used as the basis to analyze contemporary films of South America, Europe, India, East Asia, Africa and the Middle East. Emphasis is on both the development of formal film techniques and a comparison of the unique cultural values that shape the film narrative style.
Cross Listed: THEA 155; only one may be counted for credit.

FILM 185. Senior Practicum in Video Production. 3 Units
Prerequisite(s): COMS/FILM 124 with a final posted grade of C or better; COMS/FILM 128 with a final posted grade of C or better.
Term Typically Offered: Fall, Spring

Assignments in various phases of video production including creative use of camera, sound and lighting, editing, production design, production planning/management, and directing.
Cross-listed: COMS 185.

FILM 192. Senior Seminar in Film. 3 Units
Prerequisite(s): Completion of the Film Studies upper and lower division core or COMS 142, and (GWAR Certification before Fall 09, or WPJ score of 80+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Spring only

Research seminar that provides an in-depth investigation of film as an art form, a medium of mass communication and a means of personal expression. Subject will vary according to instructor.
Cross-listed: COMS 192.

Finance (FIN)

FIN 19. Real Estate Principles. 3 Units
Term Typically Offered: Fall, Spring

Examination of real estate principles and practices necessary for the acquisition, financing, management, and disposition of real estate. Incidents of ownership, the brokerage business, state regulation and transactional ethics are emphasized.
Note: This course is required by the California Department of Real Estate prior to taking the real estate salesperson's examination.

FIN 101. Business Finance. 3 Units
Term Typically Offered: Fall, Spring

Study of principles of finance and their application to typical financial problems of business enterprises. Special emphasis on financial analysis, management of working capital, cost of capital, capital budgeting, long-term financing, dividend policy, and internal financing.

FIN 134. Financial Management. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Trends in the development of financial policy are analyzed and reports on specific aspects are presented in class. The student is placed in the position of the financial manager who must make decisions and implement them.

FIN 135. Investments. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Significant characteristics of numerous types of investments; securities markets and financial institutions; principles of investment analysis; investment management.

FIN 136. Modern Portfolio Management. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Asset management utilizing the major aspects of modern portfolio theory, portfolio construction and selection, portfolio performance evaluation, capital asset pricing models, and recent theoretical developments in asset pricing behavior.

FIN 137. Financial Institutions and Markets. 3 Units
Prerequisite(s): FIN 101.
Term Typically Offered: Fall, Spring

Designed to broaden understanding of the financial system to include the network of institutions which bring into existence the increasingly important substitutes for money in the traditional sense. Emphasis is given to flow of funds analysis within the context of emerging financial theories.

FIN 138. Principles of Risk Management and Insurance. 3 Units
Prerequisite(s): Must be a business major (any concentration) or Health Science major (Occupational Health & Safety concentration) or Real Estate & Land Use Affairs minor or a Risk Mgmt & Insurance minor
Term Typically Offered: Fall, Spring

Study of the concept of pure risk and its implications for decision making. Provides business students the basics of risk theory and its application to risk management or insurance purchasing using a personal consumer's viewpoint. Practical personalized examples and cases will be used to illustrate risk decision making, primarily on a personal basis, but also in selected business decisions. Topics include risk theory, social insurance, life insurance, pensions, medical coverage, workers' compensation, property insurances, and liability insurances. Ideal as a supplement to any business major, especially those making risk management or insuring decisions, including insurance company personnel, investment counselors, financial managers, real estate majors, employee benefits/personnel specialists, pre-law, and Occupational Health & Safety.

FIN 139. Business Property and Liability Insurance. 3 Units
Prerequisite(s): FIN 138 or instructor permission.
Term Typically Offered: Fall, Spring

Concentrated and analytical approach to the study of property and liability loss exposures for the business enterprise. While the emphasis is on the different types of business insurance coverage's, a risk management approach and examples are used. Topics include business property insurances; liability, especially workers' compensation; the SMP and CGL contracts; business auto, crime coverage's; bonds; transportation insurance; consequential coverage's; and capacity and other related marketplace problems. Case studies and problems, as well as a computer analysis are used. The course is an excellent supplement for insurance, finance, real estate and pre-law majors, small business owners, and anyone who will be making business financial decisions, or providing insurance products in the insurance industry. Successfully completing FIN 138 and 139 substitutes for the one-year experience requirement for those interested in taking the Insurance Broker's Licensing Exam.

FIN 140. Employee Benefits. 3 Units
Prerequisite(s): FIN 138 or instructor permission.
Term Typically Offered: Fall, Spring

Intensive and analytical examination of the employee benefit planning environment and its risk exposures. Using a risk management approach, the topical areas studied include mandatory programs, especially OASDHI and ERISA; health care; group life and disability; retirement income and capital accumulation plans; paid time off; family-centered benefits; flexible benefits and cafeteria plans; and benefit cost information. Case studies and extensive contact with the business community as well as team projects are required. This is an important class for specialists in human resources management, especially personnel, pre-law, and health care or those who will be providing insurance products to fulfill employment benefit needs.

FIN 141. Managerial Real Estate Law. 3 Units
Prerequisite(s): FIN 19
Term Typically Offered: Fall, Spring

Examination of the decision making process in land utilization transactions relative to the minimization of risks of legal confrontation. Traditional conflicts underlying real estate transactions are examined and principles of preventive law are derived. The management of litigation and transaction attorneys is considered. Court remedies that are pertinent to land utilization transactions are analyzed and compared to nonjudicial alternatives.

FIN 142. Real Estate Finance. 3 Units
Prerequisite(s): FIN 19 or ACCY 121 or FIN 101 or ENGR 140; Buisness Majors only
Term Typically Offered: Fall, Spring

Examination of the mechanisms of real estate finance, sources of funds, loan contracts, principles of mortgage risk analysis, and the role of group equity investment. The evolution of secondary mortgage markets, government policy, and market interference will be investigated from a risk management standpoint.

FIN 143. Real Estate Investment. 3 Units
Prerequisite(s): FIN 19 or ACCY 121 or FIN 101 or ENGR 140; business majors only
Term Typically Offered: Fall, Spring

Analyzes non-financial and financial factors influencing investment decision making in income producing property. Topics include: location and its linkages; methods of estimating demand for real estate; methods for evaluating competing supply; use of market analysis in decision making; development of cash flow statements, alternative investment criteria, risk, legal, financing, and tax analysis, operating, financing investment and reversion decisions.

FIN 149. Current Topics in Real Estate. 3 Units
Prerequisite(s): Completion of 9 units of required real estate courses.
Term Typically Offered: Fall, Spring

Examines contemporary and emerging issues in land use regulation, market analysis, mortgage markets, property markets, real estate cycles, real estate development, real estate finance and investments, real estate securities, real estate portfolio management, and/or real estate taxation.

FIN 150. Capstone in Professional Financial Planning. 3 Units
Prerequisite(s): ACCY 171, FIN 135, FIN 136, FIN 138 and FIN 140; FIN 136 and/or FIN 140 may be taken concurrently.
Term Typically Offered: Spring only

This course will engage the student in critical thinking and decision-making about personal financial management topics in the context of the financial planning process. The purpose of this course is to refine and develop skills needed for personal financial planners when working with individuals, families, and business owners in meeting financial needs and objectives.

FIN 190. Multinational Business Finance. 3 Units
Prerequisite(s): FIN 101 or instructor permission. Prior additional course in finance or international business recommended but not required.
Term Typically Offered: Fall, Spring

Principles of international financial management. Issues covered include the international environment of financial management, uses of foreign exchange spot, forward, futures, options, and swap markets, foreign exchange risk management, international investment and financing decisions.

FIN 194. Cooperative Education Experiences in Real Estate. 6 - 12 Units
Prerequisite(s): FIN 19, FIN 142 and a minimum overall GPA of 2.5; Business major only
Term Typically Offered: Fall, Spring

In-depth supervised work experience in Real Estate and Land Use Affairs. This supervised work experience allows the student to become familiar with the practices of the real estate industry and/or governmental agencies.
Note: Open to all upper division students subject to permission. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

FIN 195. Internship In Finance. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to upper division students, subject to permission of the Finance Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Open to declared business administration majors only.

Credit/No Credit

FIN 195A. Internship in Real Estate and Land Use Affairs. 3 - 6 Units
Prerequisite(s): FIN 19 and FIN 142. Minimum Sacramento State GPA of 2.5 required; open to declared business administration majors only
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies. Open to upper division students, subject to permission. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit

FIN 196A. Exper Offer Finance. 3 Units
Prerequisite(s): FIN 135 with a final posted grade of B- or higher and instructor's consent.
Term Typically Offered: Fall, Spring

Students will manage a real investment portfolio by applying theories of investment analysis and portfolio management. Topics include economic analysis, valuation theories, risk measurement and management, performance measurement, and benchmarking.

FIN 199. Special Problems in Finance. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

FIN 200. Financial Reporting and Analysis. 3 Units
Term Typically Offered: Fall, Spring

Designed for business students with prior knowledge of accounting who intend to use corporate financial statements intensively in valuation, credit or equity analysis, or strategic competitor analysis. Topics include inventory, pensions, business combination, income tax and other current issues for their impacts on financial statement. Emphasis on financial statement analysis and interpretation of financial disclosures for improving risk assessment, forecasting, and decision-making.

FIN 210. Financial Institution Management. 3 Units
Term Typically Offered: Fall, Spring

Develop an understanding of the theory and practice of the management of financial institutions. Emphasis is placed on risk measurement and management. Financial institutions include commercial banks, investment banks, savings banks, credit unions insurance companies and financial companies such as mutual funds.

FIN 220. Corporate Finance. 3 Units
Term Typically Offered: Fall, Spring

Investigate the principles that corporations use in their investing, financing, and day-to-day management decisions. Topics include financial statement analysis, capital investment decision, capital structure, dividend policy, mergers and acquisitions, corporate governance and its impact on valuation.

FIN 230. Equity Analyses. 3 Units
Term Typically Offered: Fall, Spring

Covers advanced concepts and techniques essential to asset valuation. Key topics include, but not limited to, free cash flow, price multiples, asset-based and contingent claim valuations. Applications of various valuation techniques are emphasized. Provides a framework for selecting the most appropriate model for specific circumstances.

FIN 240. Fixed Income. 3 Units
Term Typically Offered: Fall, Spring

Discuss a wide range of fixed income products. Topics include trading concepts and mechanics, pricing, duration, convexity, term structure of interest rates, and options embedded fixed income securities.

FIN 250. Derivatives. 3 Units
Term Typically Offered: Fall, Spring

Discuss major types of financial derivatives and derivative markets. Topics include forward contracts, futures, options, SWAP's and credit derivatives. Emphasis on characteristics, trading process, pricing, parity conditions, risk involved, and investment strategies for different financial derivatives.

FIN 260. Alternative Investments. 3 Units
Term Typically Offered: Fall, Spring

Discuss major types of alternative investments including real estate, hedge funds, commodities, private equity, and venture capital. Emphasis on the technical aspects and the performance analyses of alternative investments, their advantages and disadvantages, role of alternative investments, and strategies of selection.

FIN 270. Portfolio Management. 3 Units
Term Typically Offered: Fall, Spring

Cover topics of asset management utilizing the major aspects of Markowitz portfolio theory, Capital ASSET Pricing Model, and Arbitrage Pricing theory. Discuss the comprehensive approach, starting with portfolio construction and asset selection, following with portfolio performance evaluation, and concluding with rebalancing strategies. Introduce and utilize worksheet modeling techniques which are useful for portfolio management.

FIN 280. Global Financial Markets. 3 Units
Term Typically Offered: Fall, Spring

Cover advanced concepts and applied techniques essential to understand the mechanism of the global financial markets. Key topics include global capital allocation, international tax management, foreign exchange markets, derivatives, parity relationships, and others. Focuses on the core concepts and techniques are applied in the global financial markets using different case studies. Integrate the key principles of finance and extends them to a multinational setting. Topics follow the Chartered Financial Analyst (CFA) Level 1 and 2 Exam on equity valuation.

FIN 299. Special Problems in Finance. 3 Units
Prerequisite(s): Classified graduate status or instructor approval
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Enrollment requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs; 6 units maximum; May be repeated for credit.

FIN 500. Culminating Experience Project in Finance and Ethics. 3 Units
Prerequisite(s): Advancement to candidacy; 12 units of any combination of the following courses: FIN 200, FIN 210, FIN 220, FIN 230, FIN 240, FIN 250, FIN 260, FIN 270 and FIN 280.
Term Typically Offered: Fall, Spring

Each student conducts an individual project to fulfill the culminating experience graduation requirement of the MS in Finance program as required in Title V of the CA Educational Code. The course also covers the ethical conducts and professional standards as outlined in CFA institute standards.
Note: May be repeated for credit

French (FREN)

FREN 1A. Elementary French. 4 Units
Term Typically Offered: Fall, Spring

Focuses on the development of elementary linguistic skills, with emphasis on the spoken language. The relationship of the language to French civilization and culture is given special attention.

FREN 1B. Elementary French. 4 Units
Prerequisite(s): FREN 1A and a suitable score on placement exam; or instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of FREN 1A, with emphasis on reading, writing, listening and speaking. French culture and its relationship to language is given continued attention.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 2A. Intermediate French. 4 Units
Prerequisite(s): One year of college French, suitable score on placement exam; or instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Emphasis on speaking, reading and writing ability. Dialogues, discussions and compositions in French.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 2B. Intermediate French. 4 Units
Prerequisite(s): FREN 2A, suitable score on the placement exam; or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of FREN 2A.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 100. Phonetics and Pronunciation. 3 Units
Prerequisite(s): Four semesters of French or equivalent.
Term Typically Offered: Fall, Spring

Review and practice all the main phonetic features of the spoken French language. Complete familiarization with the international phonetic alphabet. Practice in written transcription and oral pronunciation of all vowel and consonant sounds in French. Review and practice characteristics of diction, articulation, intonation, the musical movement of the sentence and rhythm. Orthographic problems and the phenomena of spelling and pronunciation are integrated with all written and oral exercises. Elimination of specific pronunciation problems for English speakers (r/l, mute, e, nasals, final consonants, etc.).

FREN 101. Advanced Grammar. 3 Units
Prerequisite(s): FREN 2B or equivalent.
Term Typically Offered: Fall, Spring

Review of general principles of French grammar and its application in oral and written exercises. Presentation and application of complex structures. Conducted in French.

FREN 102. Advanced Conversation. 3 Units
Prerequisite(s): Four semesters of French or equivalent.
Term Typically Offered: Fall, Spring

Mastery of spoken French language through discussion of personal readings to develop vocabulary and syntactical skills. Conducted in French. May be taken for credit twice.

FREN 103. Advanced Composition. 3 Units
Prerequisite(s): FREN 101 or instructor permission.
Term Typically Offered: Fall, Spring

Special attention to help students learn the dynamics of good writing, become sensitive to style and develop ability to express their thoughts coherently, in essentially correct and well structured French prose. Conducted in French.

FREN 104A. French Translation (French-English). 3 Units
Prerequisite(s): Upper division status in French.
Term Typically Offered: Fall, Spring

Development of translating techniques applicable to texts in areas such as literature, sciences, journalism, history, art. Review and comparative study of French and English grammars and styles. Conducted in French.

FREN 104B. French Translation (English-French). 3 Units
Prerequisite(s): FREN 101 and upper division status in French.
Term Typically Offered: Fall, Spring

Development of translating techniques from English to French applicable to texts in such areas as business, culture and/or literature. Continued comparative study of French and English grammars and styles. Conducted in French.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 107. Business French. 3 Units
Prerequisite(s): Second year college level proficiency or equivalent; or instructor permission.
Term Typically Offered: Fall, Spring

Designed to create awareness of linguistic and crosscultural differences affecting effective communication between American and Francophone speakers in the world of business, and to provide added confidence in transactions and negotiations. Explores how to do business in France, how different business structures work and interact, and how to participate in everyday business activities. Particularly helpful to International Business students to enhance understanding of Francophone and European markets and to develop business oriented French language skills. Prepares student to obtain two different Business French Certificates offered by the Chamber of Commerce and Industries of Paris and the French Ministry of Education. Conducted in French.

FREN 109. French Language Practice. 3 Units
Prerequisite(s): FREN 2B.
Term Typically Offered: Fall, Spring

Practice with French conversation, reading, and vocabulary development; supervised individual and small-group instruction designed to develop French vocabulary, including the conversation, listening and reading skills necessary for advanced study in French. May be taken for credit three times.

FREN 110. Survey of French Literature. 3 Units
Prerequisite(s): FREN 101, FREN 103, FREN 109 or instructor permission.
Term Typically Offered: Fall, Spring

An introduction to French literature through texts of varied length from different time periods and genres with a focus on the use of language. Conducted in French.

FREN 111. Topics in Francophone Literature. 3 Units
Prerequisite(s): FREN 110, or equivalent; or instructor permission.
Term Typically Offered: Fall, Spring

Study of literary texts by Francophone writers with an emphasis placed on textual analysis and the relationship between text and context. Conducted in French.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

FREN 120. French Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Presentation of formative cultural achievements of the French world from its origins to the present, i.e., the origin of the French language. Contributions to European Renaissance, Baroque and Classicism, the Revolutionary and Romantic eras, and modern western culture.
Note: Open to non-majors. Course taught in English.

FREN 125. Quebec and French North America. 3 Units
Term Typically Offered: Fall, Spring

Development and significance of francophone culture in North America, notably Quebec, French Canada and Louisiana, are explored through historical events, social changes and artistic achievements. Introduces major cultural trends and traditions from the 17th century to the present through non-fiction, literary works and audio-visual presentations in art and music. French majors and minors are required to do all reading, research and papers in French.
Note: Upper division status required.

FREN 130. Culture Wars: From Knighthood to Revolution. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Study of the profound influence of culture wars through the interpretation of major French writers, philosophers and scientists ranging from the Middle Ages to the 18th century. All readings and lectures in English.
Note: Open to non-majors.

FREN 170. Seminar Conducted in French. 3 Units
Prerequisite(s): FREN 110.
Term Typically Offered: Fall, Spring

Seminar in French will be offered as needed.

FREN 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in French and instructor permission.
Term Typically Offered: Fall, Spring

Directed fieldwork in a project which uses language skills developed through previous study of French. Projects may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. May be taken more than once for credit. Does not apply to major.
Credit/No Credit

FREN 195. Fieldwork - Tutoring. 1 - 3 Units
Prerequisite(s): Native or near-native fluency in French, upper division status; or instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division French students under supervision of an instructor. Three hours of tutoring per week for each unit. Does not apply to major.
Credit/No Credit

FREN 196. Experimental Offerings in French. 3 Units
Term Typically Offered: Fall, Spring

Special courses will be scheduled as needed.

FREN 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

FREN 210. Studies in French Literature. 3 Units
Term Typically Offered: Fall, Spring

Studies of authors, periods, movements, genres, criticism or literary history.
Note: May be repeated for credit if subject matter is not repeated.

FREN 220. Studies in French Civilization. 3 Units
Term Typically Offered: Fall, Spring

Studies in French language and linguistics problems, e.g., history of the language, semiotics, stylistics, translating, interpreting and oral expression.
Note: May be repeated for credit three times if subject matter is not repeated.

FREN 230. Studies in the French Language. 3 Units
Term Typically Offered: Fall, Spring

Studies in French language and linguistics problems, e.g., history of the language, semiotics, stylistics, translating, interpreting and oral expression.
Note: May be repeated for credit if subject matter is not repeated.

FREN 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

FREN 500. Culminating Experience. 1 - 4 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate advisor.
Term Typically Offered: Fall, Spring

Completion of a thesis, project or comprehensive examination.

General Management (GM)

GM 105. Strategic Management. 3 Units
Prerequisite(s): Completion of all other upper-division core courses, except MIS 101.
Term Typically Offered: Fall, Spring, Summer

This capstone course focuses on the integration of functional areas of a business and requires students to determine strategies/policies at the general-management level. Students address problems and issues faced by companies from a general management perspective which integrates accounting, financial, marketing, human resources, and operations in relation to the environment within a framework of balance between profit or cost-effectiveness and social responsibility.

GM 170. Fundamentals of Business Strategy. 3 Units
Prerequisite(s): HROB 101, MKTG 101, FIN 101, and OPM 101.
Term Typically Offered: Fall, Spring

Basics of business-level strategy and how they are applied in modern organizations. Underlying primary principles, theories and practices are examined and discussed. Cases presenting actual, real-world situations will be analyzed to derive solutions to the business-level opportunities and problems facing strategic managers.
Note: General Management students must complete all functional core courses before taking GM 170 .

GM 194. Cooperative Education Experience in Management. 6 - 12 Units

Prerequisite(s): Minimum overall GPA of 2.5.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in management for the purpose of exposing the student to comprehensive management experience in business, governmental, or service agencies.
Note: Open to all upper division students, subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

GM 195. Internship in Strategic Management. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to upper division students, subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Open to declared business administration majors only.

Credit/No Credit

GM 199. Special Problems in Strategic Management. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

General Studies (GNST)

GNST 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

A first-year seminar intended to provide students with an introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. This course is designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. The seminar also provides students with the opportunity to interact with fellow students, and seminar faculty to build a community of academic and personal support.

Geography (GEOG)

GEOG 1. Physical Geography: The Distribution of Natural Phenomena. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

Introductory study of the distribution over the face of the earth of selected aspects of climate, plant cover, soils, and landforms and of processes and conditions giving rise to these distributions. The use of maps as communicative devices in comparative analysis and study of distribution and processes.

GEOG 2. Cultural Geography. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Consideration of the diversity of patterns of land use, settlement and movement established and evolved by humans as a result of the interaction of cultural and physical factors; emphasis on student use of maps and other tools of geographic presentation for analyzing the nature, variation and distribution of cultural features of the earth's surface.

GEOG 2H. Cultural Geography - Honors. 3 Units
Prerequisite(s): Open to Honors students only.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Consideration of the diversity of patterns of land use, settlement and movement established and evolved by humans as a result of the interaction of cultural and physical factors; emphasis on student use of maps and other tools of geographic presentation for analyzing nature, variation and distribution of cultural features of the earth's surface.
Note: This is a special offering designed as part of the G.E. Honors program.

GEOG 3. Introduction to Maps and Geographic Technologies. 3 Units
Term Typically Offered: Spring only

Introduction to maps, map concepts, and geographic technologies. Maps are the most effective way to communicate spatial data, and introduces students to the quickly changing world of maps (both hard-copy and digital) and geographic technologies including map and aerial photograph interpretation, spreadsheet operations, introductory statistics, global positioning systems (GPS), Internet mapping, satellite and aerial images, and geographic information systems (GIS) that aid in data collection, analysis, and presentation. Lecture two hours; laboratory two hours.

GEOG 5. Violent Weather/Changing Atmosphere. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Introduction to meteorological and climatological principles and concepts. These principles will be used to examine severe atmospheric phenomena, including hurricanes, tornadoes, thunderstorms, lightning, destructive winds, severe storms, heat waves, droughts and floods, particularly in relation to human-caused climate change and the effects of these phenomena on humanity.

GEOG 11. Laboratory in Physical Geography. 1 Unit
Prerequisite(s): GEOG 1; may be taken concurrently.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B3)
Term Typically Offered: Fall, Spring, Summer

Makes the ideas and relationships of introductory physical geography more clear by observation and experiment. Use is made of maps, globes, models, meteorological instruments and records, satellite photos and observations of the local scene. Laboratory, three hours.

GEOG 100. Themes In World Geography. 3 Units
Prerequisite(s): Junior or Senior class standing or instructor permission.
Term Typically Offered: Fall, Spring

Study of the content of geography with a consideration of basic concepts and methods. Emphasis is on patterns and relationships of the elements and manifestations of physical and cultural geography, including both topical and regional discussions.

GEOG 102. Ideas and Skills in Geography. 3 Units
Prerequisite(s): GEOG 1 or GEOG 2 or GEOG 3 or GEOG 11.
Term Typically Offered: Fall only

Study and discussion of geographic ideas, including the history of the discipline. Introduction to library resources appropriate to geographic inquiry. Practice in geographic descriptive and analytical writing and research. Extensive use of maps. Required of Geography majors in the junior year. Lecture three hours.

GEOG 105. Computer Cartography. 3 Units
Prerequisite(s): GEOG 109 or instructor permission.
Term Typically Offered: Fall only

Preparation of maps and diagrams, emphasizing thematic map design using various mapping and design programs. Detailed study of important map projections. Passing score on ELM exam recommended. Lecture one hour, laboratory six hours.

GEOG 107. Remote Sensing. 3 Units
Term Typically Offered: Spring only

Aerial photographs and scanned satellite images, emphasis on the former. Topics include the electromagnetic spectrum, cameras, films, image geometry as related to planimetric and topographic mapping, multispectral techniques, and interpretation of imagery, emphasizing land use and landforms. Lecture two hours; laboratory three hours.

GEOG 109. Geographic Information Systems. 3 Units
Term Typically Offered: Fall, Spring, Summer

Introduction to GIS, including history and overview of current applications; the nature of spatial data; geographic data structures, acquisition, analysis, and display of geographic data. Lab exercises use various computers and include both raster- and vector-based GIS systems. Lecture two hours; laboratory three hours.

GEOG 110. Advanced Geographic Information Systems. 3 Units
Prerequisite(s): GEOG 109 or instructor permission.
Term Typically Offered: Fall only

Builds on the introduction to the hardware, software and operations of GIS offered with the previous courses, providing the essentials required by a beginning GIS analyst or applications support specialist. Emphasis will be placed on problem solving strategies in the context of GIS projects.

GEOG 111. Elements Of Meteorology. 3 Units
Prerequisite(s): GEOG 1 or instructor permission.
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Basic concepts of weather and weather elements: structure and general circulation of the atmosphere, earth's heat and water balance, precipitation, air masses and fronts, air pollution meteorology. Some micrometeorological concepts with application to air pollution, agriculture, and similar problems.

GEOG 113. Climate. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall only

Study of the distribution of heat and moisture over the earth's surface. Basic processes by which heat and moisture acquire unequal distributions in space and time. Classification of climate. Climatic change. Climate models.

GEOG 115. Biogeography. 3 Units
Prerequisite(s): GEOG 1 or instructor permission
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall only

Introduction to the geographic distribution of life. Communities and biomes, changing continents and climates, dispersal, colonization, extinction, life on islands, and past and present human impacts are examined.
Note: Field trip required.

Field trip(s) may be required.

GEOG 116. Global Climate Change. 3 Units
Prerequisite(s): GEOG 1 or instructor permission.
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Spring only

Study of past climate change and the techniques with which they are reconstructed. Focus on the various temporal scales at which climate change operates. Spatial variability of past, present and future climate changes. Anthropogenic climate change in the context of natural climate variability.

GEOG 117. Landforms. 3 Units
Prerequisite(s): GEOG 1 or instructior permission.
Term Typically Offered: Fall only

Study of the surface forms of the land with particular attention to their distribution and to the accompanying distribution of natural forces and processes which have brought the landforms into being. Study of landforms in the context of Quaternary environmental change. Identification and analysis of landforms using maps and other spatial data. Lecture three hours.

GEOG 118. Earth Transformed. 3 Units
Term Typically Offered: Fall, Spring

Explores the evolving human role in transforming Earth's physical environments. Topics range from prehistoric extinction's to modern environmental problems in select regions. Emphasis is placed on wide-ranging effects of resource use and disposal, with particular reference to atmosphere and biological problems and sustainable solutions.

GEOG 119. Visualizing Global Environments. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Using current geospatial technologies, such as remote sensing and GIS, the course provides an introduction to the distributions of climate, plant cover, soils, and landforms over the face of the earth. While examining processes and conditions that cause these distributions, students will also explore the methods and techniques that let us visualize these distributions, and use maps as communicative devices in our explorations of these topics.

GEOG 121. United States and Canada. 3 Units
Term Typically Offered: Fall, Spring

Present distribution and historical development of population, land use and industry in the U.S. and Canada in relation to regional variations in the physical environment and cultural heritage.

GEOG 125. Geography Of East Asia. 3 Units
Term Typically Offered: Fall, Spring

Geographic setting and nature of Far Eastern civilization; origins, development and present outlines of settlement; cultures, resource use, economic structures, population, levels of technological achievement, and land use in China, Japan and Korea.

GEOG 127. Geography Of Africa. 3 Units
Term Typically Offered: Spring only – odd years

Emphasis is on sub-Saharan Africa with consideration given to selected topics such as population problems, industrialization, regional groupings, transportation, and internal and external relationships.

GEOG 128. Geography Of Europe. 3 Units
Term Typically Offered: Spring only – even years

Survey of Europe with emphasis on its physical environment, contemporary demographic, economic, and ethnic patterns, and the changing political landscape. Consideration will also be given to Europe's historic and present-day links with other world regions, and to the geographic basis for many of the social, political, economic, and environmental challenges facing contemporary Europe.

GEOG 129A. Special Topics in Regional Geography A. 3 Units
Term Typically Offered: Fall only

Geographic survey of a selected region with emphasis on its physical environment and selected economic, demographic, political, and cultural patterns. Consideration may include its connection to other world regions and its role in current events. The specific region is identified by the Geography Department at scheduling. This course and GEOG 129B and GEOG 129C may be taken for up to 9 units.

GEOG 129B. Special Topics in Regional Geography B. 3 Units
Geographic survey of a selected region with emphasis on its physical and human geography. Topics may include climate, landforms, vegetation, economics, demographics, culture, and the region's connection to other world regions and its role in current events. The specific region is identified by the Geography Department at scheduling. This course and GEOG 129A and GEOG 129C may be taken for up to 9 units.

GEOG 129C. Special Topics in Regional Geography C. 3 Units
A selected world region is the focus of this course that geographically surveys the region's physical and human environment. Potential topics include climate, landforms, vegetation, economics, demographics, culture, and more. The specific region is identified by the Geography Department at scheduling. This course and GEOG 129A and GEOG 129B may be taken for up to 9 units.

GEOG 131. California. 3 Units
Term Typically Offered: Fall only

Study of landforms, climate, vegetation, population distribution and change, industry, transportation, water, energy, and agriculture in California.

GEOG 141. Geography of Economic Activity. 3 Units
Term Typically Offered: Fall only – even years

Spatial organization of man's activities related to production, exchange and consumption. Attention is given to resource development and the areal variations of factors affecting it, to concepts of spatial interaction and to spatial aspects of agricultural, industrial and urban land use. An examination of problems related to regional economic development. Changing perceptions of spatial organization of economic activities is also considered. Emphasis is on both theoretical framework and case study applications.

GEOG 143. Environmental Hazards and Society. 3 Units
Term Typically Offered: Spring only – odd years

Focuses on how a place's social systems and physical systems intersect to create hazards. Considers the development of various theoretical approaches to hazards; risk perception and societal responses to hazard events; the history of U.S. disaster response; and approaches to risk/vulnerability assessment.

GEOG 145. Population Geography. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Spatial patterns of population numbers and characteristics; migration and spread of ideas; potential for economic and cultural developments.

GEOG 147. Urban Geography. 3 Units
Term Typically Offered: Fall only – odd years

Consideration of cities as centers of human activity from the rise of urban life in the Old and New Worlds to the present day patterns of metropolis and megalopolis. The functions and interactions of cities in Earth's limited space and on Earth's limited resources are studied historically and crossculturally. Also examined are changing perceptions of the urban phenomenon and attempts to enhance the quality of urban life.

GEOG 148. Urban and Regional Planning. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the theory and practice of urban and regional planning. Topics include the history of planning, the development of comprehensive and land use plans, growth management, and transportation and environmental planning. Includes guest speakers from the planning community as well as the opportunity to work on a project with a community organization or government agency to put into practice what is discussed in class.

GEOG 149. Transportation Geography. 3 Units
Prerequisite(s): GEOG 141, GEOG 147, or GEOG 148 or instructor permission.
Term Typically Offered: Spring only – odd years

Explores the geography of transportation using both theory and applications, quantitative and qualitative methods. Topics include the history and economic importance of transportation systems for all major modes; their political, social, and environmental aspects; and basic analytical methods, including accessibility dynamics, network analysis, and spatial interaction models. Focus will be on the U.S., with frequent reference to local issues, though material will be drawn on from around the world.

GEOG 150. Programming for GIS. 3 Units
Prerequisite(s): GEOG 109
Term Typically Offered: Fall, Spring

This course is an introduction to programming and scripting for intermediate GIS users, using an object-oriented programming approach. You will develop and write clearly documented and structured geoprocessing programs using the Python programming language and ArcPy, a site package (library) for ArcGIS geoprocessing tools.

GEOG 151. Programming for GIS II. 3 Units
Prerequisite(s): GEOG 150 or instructor approval.
Term Typically Offered: Fall, Spring

This is an advanced course in programming and scripting for intermediate to advanced GIS users, using an object-oriented programming approach. You will develop well-documented and structured geoprocessing programs for data management, processing, and automation in the Python programming language, leveraging libraries such as ArcPy and GDAL.

GEOG 161. California's Water Resources. 3 Units
Term Typically Offered: Spring only

Study of the location and nature of the state's surface and underground water, including development by government agencies, water needs of cities, farms, recreation and wildlife, implications of water rights, water marketing and conservation, and management of floods, droughts and pollution.

GEOG 163. Applied GIS. 3 Units
Prerequisite(s): GEOG 109.
Term Typically Offered: Fall only

Introduction to developing a GIS project, including planning, database research, proposal writing, analysis and evaluation. Lecture 2 hours; Laboratory 3 hours.

GEOG 181. Quantitative Methods in Geography. 3 Units
Term Typically Offered: Spring only

Introduction to techniques useful in the analysis of spatial distributions and other geographic phenomena: basic aspatial descriptive and inferential techniques, correlation, regression, and spatial inferential techniques.

GEOG 182. Qualitative Methods in Geography. 3 Units
Prerequisite(s): GEOG 102
Students learn and conduct an array of observational and qualitative research techniques used in human geography, including landscape observation, participant observation, interviews, surveys and questionnaires, group discussions (focus groups, charrettes, etc.), visual methods, archival research, and analyzing some of the writing styles commonly used in qualitative research. One learns the relative strengths and weaknesses of these techniques, their appropriate applications, ways to combine them in mixed-methods research, and how to analyze and represent the data.

GEOG 190. Senior Research Seminar in Geography. 3 Units
Prerequisite(s): GEOG 1, GEOG 2, GEOG 3, GEOG 102; senior standing, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X; instructor permission.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Spring only

Writing-intensive capstone course requiring students to complete independent research projects displaying their mastery of geography's content and methods. Projects undertaken in a given semester share a common thematic and/or regional focus. Students use bibliographic, field, spatial analytic, graphic, and verbal skills. Context for projects is provided by a review of the recent history of the discipline. Lecture/discussion three hours.

GEOG 192A. Geography Field Experience A. 1 - 2 Units
Prerequisite(s): one geography course or instructor permission.
Term Typically Offered: Fall, Spring

A particular geographical area is explored and studied via beginning-level field observation. Emphasis may be placed on physical features, cultural features, or both.
Credit/No Credit

GEOG 192B. Geography Field Experience B. 1 - 2 Units
Prerequisite(s): one geography course or instructor permission.
Term Typically Offered: Fall, Spring

A particular geographical area is explored and studied via intermediate-level field observation. Emphasis may be placed on physical features, cultural features, or both.
Credit/No Credit

GEOG 192C. Geography Field Experience C. 1 - 2 Units
Prerequisite(s): one geography course or instructor permission.
Term Typically Offered: Fall, Spring

A particular geographical area is explored and studied via advanced-level field observation. Emphasis may be placed on physical features, cultural features, or both.
Credit/No Credit

GEOG 193A. Field Geography: Urban-Metropolitan. 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Spring only – odd years

Examines the internal structure and external relations of Sacramento as a metropolitan center and of nearby urban communities through field observation and exercises. Emphasis is placed on mapping and interviewing as ways of gaining useful information on urban patterns.

GEOG 193B. Field Geography: Suburban-Rural. 3 Units
Prerequisite(s): Instructor permission.
Examines competition for land use in suburban Sacramento as urban sprawl overruns less intensive uses. Small towns in the lower Sacramento Valley also examined. Group field trips, interviews, field mapping and discussions.
Field trip(s) may be required.

GEOG 193C. Field Geography: Physical. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall only

Survey of selected areas with systematic examination of elements of the natural landscape. Group field trips and individual preparation of reports and consultation with instructor.
Field trip(s) may be required.

GEOG 194. Geography - Related Work Experience. 6 - 12 Units
Prerequisite(s): Consent of supervising faculty and Department Chair.
Term Typically Offered: Fall, Spring

Supervised employment in a company or agency doing geography-related work, arranged through the Department of Geography and the Cooperative Education Program office. Requires preparation of application packet, completion of a 3-6 month full- or part-time work assignment, and a written report. Units not applicable to the Geography major.
Credit/No Credit

GEOG 195A. Geography Internship A. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience at the beginning level in an approved professional environment, working with professionals in public or private organizations. Supervision supplied by a geography faculty member and on-site supervisor. Placements require 4-12 hours per week, depending on units.
Note: Open to all Geography majors and minors with permission of supervising faculty member and Department Chair. GEOG 195A, GEOG 195B, and GEOG 195C may be taken for up to 6 total units.

Credit/No Credit

GEOG 195B. Geography Internship B. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience at an intermediate level in an approved professional environment, working with professionals in public or private organizations. Supervision supplied by a geography faculty member and on-site supervisor. Placements require 4-12 hours per week, depending on units.
Note: Open to all Geography majors and minors with permission of supervising faculty member and Department Chair. GEOG 195A, GEOG 195B, and GEOG 195C may be taken for up to 6 total units.

Credit/No Credit

GEOG 195C. Geography Internship C. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised work experience at an advanced level in an approved professional environment, working with professionals in public or private organizations. Supervision supplied by a geography faculty member and on-site supervisor. Placements require 4-12 hours per week, depending on units.
Note: Open to all Geography majors and minors with permission of supervising faculty member and Department Chair. GEOG 195A, GEOG 195B, and GEOG 195C may be taken for up to 6 total units.

Credit/No Credit

GEOG 196G. Programming for GIS II. 3 Units
Prerequisite(s): GEOG 150 or instructor approval.
Term Typically Offered: Spring only

This is an advanced course in programming and scripting for intermediate to advanced GIS users, using an object-oriented programming approach. You will develop well documented and structured geoprocessing programs for data management, processing, and automation in the Python programming language, leveraging libraries such as ArcPy and GDAL.

GEOG 196U. Geography of Housing in the United States. 3 Units
Term Typically Offered: Fall only

Geographic perspectives on housing in the US. History, policy, alternative housing movements, and spatial theories of urban change as they relate to housing are addressed. Emphasis on examining the role of place and space in the development of housing strategies through reading, discussion, and activities.

GEOG 198. Co-Curricular Activities. 1 - 6 Units
Prerequisite(s): Consent of faculty Sponsor and department chair.
Term Typically Offered: Fall, Spring

Co-curricular activities related to subject matter and concerns of the Geography Department, e.g. students may qualify for credit by providing special tutorial assistance to EOP students or others in introductory courses.
Note: May be repeated for up to 6 units of credit.

Credit/No Credit

GEOG 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and Department chair.
Term Typically Offered: Fall, Spring, Summer

Individual projects or directed reading.
Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 199A. Geography Special Problems A. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading at a beginning level. Graded (CR/NC Available) Units: 1.0 - 3.0
Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 199B. Geography Special Problems B. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading at an intermediate level, ordinarily taken following completion of GEOG 199A. Graded (CR/NC Available) Units: 1.0 - 3.0
Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 199C. Geography Special Problems C. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading at an advanced level. Ordinarily taken following completion of GEOG 199A and GEOG 199B. Graded (CR/NC Available) Units: 1.0 - 3.0
Note: Open only to students competent to carry on individual work.

Credit/No Credit

GEOG 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor and Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students competent to carry on individual work.

Credit/No Credit

Geology (GEOL)

GEOL 5. Geology Of Mexico. 4 Units
General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring

Introduction to Geology through examination of aspects of the geology of Mexico. Emphasizes problem-based approach to learning Geology and the process of scientific investigation. Topics include a wide range of geological concepts including plate tectonic setting of Mexico, living with volcanoes: the Mexican volcanic belt, the Mexico City earthquake, issues of water supply, flooding and atmospheric pollution in Mexico City, the Chicxulub crater and geologic time, ore deposits of Mexico. Lecture three hours; laboratory three hours.

GEOL 5A. Geology of Mexico Field Trip. 2 Units
Prerequisite(s): GEOL 5
Term Typically Offered: Fall, Spring

Focuses on fundamental geologic concepts as seen from real world examples in Mexico that will be visited during several strategic field stops. Field stops will emphasize a problem-based approach to learning geology and the process of scientific investigation. Topics include a wide range of geological concepts including plate tectonic setting of Mexico, living with volcanoes, the Mexico City earthquake, issues of water supply, flooding, climate change and atmospheric pollution in Mexico City, the Chicxulub meteor impact crater, geologic time, ore deposits of Mexico, and natural hazards. Field trip ten days.
Field trip(s) may be required.

GEOL 7. Natural Disasters. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Examination of earth materials and earth processes through the study of natural disasters. Topics include earthquakes, volcanoes, landslides, floods, tsunamis, hurricanes, tornadoes and meteorite impacts. Examination of causes, effects and mitigation of natural disasters.

GEOL 8. Earth Science. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

Earth and its neighbors in space. Scientific method and discovery in the study of stars, planets, weather, rivers, glaciers, oceans, rocks, volcanoes, earthquakes, landslides, mountains, drifting continents, the earth in time.
Note: Students contemplating a geology major or minor in geology should enroll in GEOL 10, not in GEOL 8. No credit for those who have taken GEOL 10 or equivalent.

GEOL 8L. Earth Science Lab. 1 Unit
Prerequisite(s): GEOL 8; may be taken concurrently.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B3)
Term Typically Offered: Fall, Spring

Emphasizes scientific methods and systematic laboratory procedures. Includes weather analysis, rock and mineral identification, study of geologic concepts by means of topographic maps, and exercises in astronomy and oceanography. Laboratory three hours.

GEOL 8T. Earth Science Lab for Teachers. 1 Unit
Prerequisite(s): GEOL 8; may be taken concurrently.
Term Typically Offered: Fall, Spring

Exploration of the solid Earth, its atmosphere and oceans, and the Earth's place in the solar system. Emphasizes learning Earth science through investigation, and uses Earth science to understand the processes of science. Laboratory three hours.

GEOL 10. Physical Geology. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Rocks and their mineral constituents, geological processes such as weathering, erosion, glaciation, mountain building, etc., volcanoes, earthquakes, folds, faults, the earth's interior, plate tectonics and earth resources. Field trip. Fee course.
Fee course.
Field trip(s) may be required.

GEOL 10L. Physical Geology Lab. 1 Unit
Prerequisite(s): GEOL 10; may be taken concurrently.
General Education Area/Graduation Requirement: Physical Science (B1), Laboratory (B3)
Term Typically Offered: Fall, Spring

Laboratory supplement to GEOL 10. Emphasizes scientific method and systematic laboratory procedures. Identification of common minerals and rocks. Introduction to and analysis of topographic and geologic maps. Field trip. Laboratory three hours. Fee course.
Fee course.
Field trip(s) may be required.

GEOL 11. Digital Methods in Geoscience. 1 Unit
Prerequisite(s): GEOL 5 or GEOL 10/10L. GEOL 10L can be taken concurrently.
Term Typically Offered: Fall, Spring

Introductory course to the basic computing needs to be successful in the geosciences. Topics include Microsoft Office, Adobe Suite and reference software.

GEOL 12. Historical Geology. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Origin and geological history of the earth and the evolution of its animal and plant inhabitants. Fee course.
Note: Lecture 3 hours.

Fee course.

GEOL 12L. Historical Geology Lab. 1 Unit
Prerequisite(s): GEOL 12; and GEOL 5 or GEOL 10 and GEOL 10L. GEOL 12 may be taken concurrently.
Term Typically Offered: Fall, Spring

Supplements GEOL 12. Use of sedimentary rocks, fossils, geologic maps, and structural sections in interpreting ancient environments, tectonic settings, and geologic history. Age relations and correlation of rock and time-rock units. Introduction to fossil identification and biostratigraphy. Laboratory three hours.

GEOL 100. Earth Materials - Rocks and Minerals. 4 Units
Prerequisite(s): CHEM 1A, GEOL 5 or GEOL 10/10L, and GEOL 12 (GEOL 12 can be taken concurrently) Field Trip.
Term Typically Offered: Fall, Spring

Properties and identification of minerals and rocks; rock formation and the rock cycle. Lecture three hours; laboratory three hours; field trip. Field trip(s) may be required.

GEOL 101. Optical Mineralogy. 2 Units
Prerequisite(s): CHEM 1A, GEOL 5 or GEOL 10 + GEO 10L, GEOL 100 (GEOL 100 can be taken concurrently)
Term Typically Offered: Fall, Spring

Introduction to advanced mineral identification by physical and optical properties. Techniques and theory of optical mineral analysis and crystallography. Lecture 1 hour; laboratory 3 hours.

GEOL 102. Igneous and Metamorphic Petrology. 4 Units
Prerequisite(s): GEOL 100 and GEOL 103
Term Typically Offered: Fall, Spring

Study of the origin, evolution, occurrence, geochemistry, dynamics and physical characteristics of igneous and metamorphic systems. The laboratory will focus on both hand-specimen and petrographic-microscope studies. Lecture three hours, laboratory three hours. Fee course.
Fee course.

GEOL 103. Sedimentology/Stratigraphy. 4 Units
Prerequisite(s): GEOL 12, GEOL 12L, and GEOL 100
Term Typically Offered: Spring only

Compositions, textures, classification, origins and structures of sediments and sedimentary rocks. Hand specimen observation and interpretation. Facies models, classification and correlation of stratigraphic units, subsurface techniques. Lab emphasizes hand specimen and microscope identification and subsurface techniques. Field trip. Lecture three hours; laboratory three hours. Fee course.
Fee course.
Field trip(s) may be required.

GEOL 105. Paleontology. 4 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, GEOL 12 and GEOL 12L.
Term Typically Offered: Spring only

Biology, evolution, classification and paleoecology of important groups of fossil organisms. Uses of fossils in solving geologic problems.
Note: Lecture = 3 units; Lab = 1 unit. Fee Course. Field Trip.

Fee course.
Field trip(s) may be required.

GEOL 110A. Structural Geology and Tectonics. 4 Units
Prerequisite(s): GEOL 111A and GEOL 111B, PHYS 5A or PHYS 11A, MATH 26A or MATH 30.
Term Typically Offered: Fall, Spring

Description, analysis and interpretation of geologic structures and tectonic settings. Theory of stress and strain as it pertains to the origin of folds, faults, joints, cleavage, and other structural elements. Laboratory includes techniques of structural analysis such as orthographic projections, stereonets, structure contours, Mohr diagrams, interpretation of maps and cross sections. Lecture three hours, laboratory three hours. Fee Course.
Fee course.

GEOL 110B. Structural Geology Field. 1 Unit
Prerequisite(s): GEOL 103, GEOL 111A, GEOL 111B, and GEOL 110A. It is recommended that GEOL 110A be taken concurrently.
Term Typically Offered: Fall, Spring

Field description, mapping and interpretation of geologic structures. Includes techniques of taking detailed field notes, field photography measurement of structures using a pocket transit, geologic map and cross section construction, stereonet analysis, and report writing. Consists of off-campus fieldwork. Fee course.
Fee course.

GEOL 111A. Field Geology. 2 Units
Prerequisite(s): GEOL 12L and GEOL 100
Corequisite(s): GEOL 111B
Term Typically Offered: Spring only

Science and art of recognizing, describing and interpreting geologic features in the field. Lecture and laboratory course on the preparation and use of topographic and geologic maps, stratigraphic and cross sections, compass and GPS instrument. Lecture one hour; laboratory three hours. Fee course.
Fee course.

GEOL 111B. Field Techniques. 2 Units
Prerequisite(s): GEOL 100 and GEOL 103. GEOL 103 may be taken concurrently.
Corequisite(s): GEOL 111A
Term Typically Offered: Spring only

Introduction to geologic field methods including descriptions of rocks, geologic mapping, observation, interpretation and geologic report writing. Detailed mapping techniques will also be covered; these may include the use of plane table, total station theodolite and global position systems. Consists of off-campus fieldwork. Fee course.
Fee course.

GEOL 112. Geophysics For Geologists. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, PHYS 5A, PHYS 5B which may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to the principal geophysical concepts and techniques useful to geologists in the study of tectonics, the Earth's interior and rresource exploration. Includes the study of seismology, heat flow, gravity, borehole geophysics, electromagnetism and geodynamics. Fee Course/Field Trip.
Fee course.
Field trip(s) may be required.

GEOL 114. Volcanology. 3 Units
Prerequisite(s): GEOL 100; May be taken concurrently.
Term Typically Offered: Fall, Spring

An advanced exploration of physical volcanic processes, chemistry of magmas, interpretation of volcanic deposits, historic eruptions and volcanic hazard assessment.
Note: Field trip. Weekend field trip to volcanic areas (typically in California. Fee course. Field trip student fee.

Fee course.
Field trip(s) may be required.

GEOL 115. Volcanoes: An Introduction. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

An introductory to volcanoes including volcanic landforms, eruption styles, properties of magma, and volcanic hazards/ mitigation.

GEOL 120. Surficial Processes. 4 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L; GEOL 12, GEOL 12L.
Term Typically Offered: Fall, Spring

Focused study on the basic forces that drive surficial processes such as wind water and gravity and the role of weathering, sediment transport and deposition on landform and landscape development. A laboratory component will enhance student understanding by solving applied problems as well as develop proficiencies with various geologic tools.
Note: 150 minutes Lecture = 3 units, 150 minutes Lab = 1 unit. Fee Course.

Fee course.

GEOL 121. Geology of California. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10.
Term Typically Offered: Fall, Spring

Regional study of California and certain surrounding areas with regard to geologic development, plate tectonics, economic resources and geologic hazards. Lecture and field trip(s). Fee course.
Fee course.
Field trip(s) may be required.

GEOL 123. Geochemistry. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, CHEM 1A.
Term Typically Offered: Fall, Spring

Fundamentals of the geochemistry of Earth materials. Thermodynamics and kinetics of geological environments, silicates and carbonates, major element geochemistry, trace and rare earth element geochemistry, stable and radiogenic isotopes. Applications to studies of aqueous, pedogenic, igneous, sedimentary, and metamorphic environments. Analysis of geochemical aspects of contemporary resource, environmental, and paleoenvironmental problems.

GEOL 125. Metallic Ore Deposits. 3 Units
Prerequisite(s): GEOL 100, CHEM 1A.
Term Typically Offered: Fall, Spring

Origin, geology, and distribution of metallic ore deposits. Introduction to ore minerals. Exploration methods. Field trip. Fee course.
Fee course.
Field trip(s) may be required.

GEOL 126. Environmental Field Methods. 3 Units
Prerequisite(s): GEOL 10 or GEOL 10L or instructor permission.
Field analysis of the local environment, including soil and water systems. Students will learn monitoring design, sample collections, sample analysis, data interpretation, and presentation methodologies for environmental geology applications.

GEOL 127. Hydrogeology. 4 Units
Prerequisite(s): CHEM 1A, GEOL 10, GEOL 10L, PHYS 5A, and MATH 26A or MATH 30, or instructor permission.
Term Typically Offered: Spring only

Presents fundamentals of groundwater flow, as influenced by topography and geology; geological aspects of groundwater supply, contamination, remediation, and protection of hydrogeological regions of the U.S. and their critical groundwater issues. Lecture three hours; laboratory three hours. Lecture three hours.

GEOL 130. Oceanography. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring, Summer

Survey of geological, physical, chemical and biological oceanography including the sea floor; waves, tides, currents; the physical and chemical properties of seawater and their distribution in the sea; planktonic life and its relation to nutrients.

GEOL 132. Marine Geology. 3 Units
Prerequisite(s): GEOL 10 and GEOL 10L or GEOL 12 and GEOL 12L
Term Typically Offered: Spring only

Origin, structure and evolution of the ocean basins and their margins. Topics covered will include marine sediments, seafloor bathymetry, seismic stratigraphy, sea level history, and marine micropaleontology. Fee course. Field trip: Weekend trip to Moss Landing, California to collect marine samples.
Fee course.
Field trip(s) may be required.

GEOL 140. Geology and the Environment. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Applies geologic data and principles to situations affecting our environment. The geologic study of earthquakes, volcanoes, floods, landslides, groundwater and similar topics supplies the background data for lectures on land use and other social choices. Topics such as geopolitics and mineral supply provide a basis for understanding international politics, social costs, and world economics. Fee course.
Fee course.

GEOL 150. Computer Mapping in Geology. 3 Units
Prerequisite(s): GEOG 109 or instructor permission
Term Typically Offered: Fall, Spring

This course is designed to enhance the mapping skills of geology majors by providing them an opportunity to learn modern computer aided mapping techniques - methods and tools widely used across industry, government, and academe. The course is designed to teach students how to effectively use various tools and mapping software by applying their developing skills in solving a variety of geological problems. This course strategy will help develop both student technical map making and innovative problem solving skills.

GEOL 170. Age of Dinosaurs. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Applies to the fundamental principles of geology, biology, and ecology to understanding the evolution of the Mesozoic world. Emphasis is placed on the nature and evolution of dinosaurs in the context of global regional changes in the Mesozoic ecosystem. Included are considerations of the data, methods, and uncertainties in paleontology and other historical sciences.

GEOL 171. Petroleum Geology. 3 Units
Prerequisite(s): PHYS 5A & GEOL 103. GEOL 103 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to the origin, migration, and accumulation of hydrocarbons in the context of stratigraphic and structural systems. Exploration and production of both conventional and unconventional resources. Lecture three hours. Field trip. Fee Course.
Fee course.
Field trip(s) may be required.

GEOL 177. Hawaii Volcanic Field Trip. 2 Units
Prerequisite(s): Geology 10 or another physical geology course approved by instructor; Field Trip, 2 units. Fee course.
Term Typically Offered: Fall, Spring

An investigation and visit to the many interesting volcanic features and eruption activities of Hawaiian volcanism. Topics include tectonics, physical volcanology, and volcanic monitoring techniques.
Credit/No Credit
Fee course.

GEOL 180. Water Planet. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Investigating the physical processes that control water movement and supply across the planet. Subjects include the hydrological cycle, oceans, waves and tides, fisheries, water in the atmosphere, water and wildfire, landslides, river systems, groundwater and water quality, water management, and the future of water resources on a changing planet.

GEOL 184. Geological Field Trip. 2 Units
Term Typically Offered: Fall only

10-day field trip to a region of outstanding geology. Attendance at preliminary meetings is required. Analyzes and interpretation of geologic features is emphasized. Fee course.
Note: Student should consult the Geology Department during the semester before planning to take the course. May be taken more than once for credit.

Credit/No Credit
Fee course.
Field trip(s) may be required.

GEOL 188. Advanced Geologic Mapping. 6 Units
Prerequisite(s): GEOL 102, GEOL 103, GEOL 110A, GEOL 110B, GEOL 111A, GEOL 111B and instructor permission.
Term Typically Offered: Fall, Spring

Advanced principles/methods of geologic mapping, interpretation and geologic report writing for selected field areas in the western United States. Mapping techniques include the use of aerial photographs and global position systems. Consists of on-campus field preparation and off-campus fieldwork. Fee course.
Fee course.

GEOL 189. Geology Colloquium. 1 Unit
Term Typically Offered: Fall, Spring

Students will attend and participate in the joint Geology, Environmental Studies, Ecology weekly colloquium series and will be exposed to a variety of geologic and environmental topics. Speakers include those from CSUS, the USGS, government and professional organizations, and other academic institutions. Topics and speakers vary each semester.
Note: This course must be taken twice.

Credit/No Credit

GEOL 190A. Geology and Tectonic Development of California Seminar. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10, GEOL 12; GEOL 110A recommended.
Term Typically Offered: Fall, Spring

Seminar in the geologic and tectonic development of California.

GEOL 193C. Engineering Geology. 3 Units
Prerequisite(s): GEOL 5 or GEOL 10 and GEOL 10L, GEOL 12, PHYS 5A or PHYS 11A, MATH 29 or high school trigonometry.
Term Typically Offered: Fall, Spring

Investigates the engineering properties of earth materials, the engineering considerations required to build safe and durable structures on and within the Earth, and problems associated with structures designed and built neglecting physical environmental conditions. Designed to introduce engineering concepts to students who have a competent grasp of general geologic principles and processes. Lecture 3 hours.

GEOL 195. Geology Internship. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised unpaid work experience in government or industry. Supervision is provided by the faculty instructor and responsible officials in the work situations.
Note: Open to all upper division Geology majors with instructor permission. Number of units earned depends on number of hours worked.

Credit/No Credit

GEOL 197. Advanced Laboratory Techniques for Geology. 1 - 3 Units
Prerequisite(s): Appropriate upper division courses and instructor permission.
Term Typically Offered: Fall, Spring

Supervised individual instruction on techniques applied in geology laboratories for advanced research in mineralogy, petrology, geochemistry, geophysics, and paleontology.
Credit/No Credit

GEOL 198A. Senior Research Preparation. 1 Unit
Prerequisite(s): Senior status and appropriate courses as determined by a Departmental faculty committee. The proposed project must be approved by a Department committee; instructor permission.
Term Typically Offered: Fall, Spring

Selection and design of an independent research project. A final written report is required and includes: research proposal, bibliography, and results of preliminary review of the literature. Student must choose a supervising instructor.

GEOL 198B. Senior Research Project. 2 Units
Prerequisite(s): Senior status and appropriate courses as determined by a Departmental faculty committee. The proposed project must be approved by the Department committee; instructor permission.
Term Typically Offered: Fall, Spring

Completion of an independent research project. A final written report is required. Progress reports may be required by the supervision instructor. Presentation of an oral report on the research project during the same semester is required.

GEOL 199A. Beginning Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or special studies at a beginning level, including fieldwork, lab work, library study, or other learning activities.
Note: Open only to students judged competent to carry on individual work. Credit/noncredit grading also available.

GEOL 199B. Intermediate Special Problems. 1 - 3 Units
Individual projects or special studies at an intermediate level, including fieldwork, lab work, library study, or other learning activities.
Note: Open only to students judged competent to carry on individual work. Credit/noncredit grading also available.

GEOL 199C. Advanced Special Problems. 1 - 3 Units
Individual projects or special studies at an advanced level, including fieldwork, lab work, library study, or other learning activities.
Note: Open only to students judged competent to carry on individual work. Credit/noncredit grading also available.

GEOL 200. Graduate Research Methods Seminar. 3 Units
Term Typically Offered: Fall, Spring

Developing a research proposal, library and internet searches, seeking external funding, presentation graphics, and publication formats. Students will develop a research project in preparation for thesis requirement. Seminar three hours.
Note: Graduate Writing Intensive (GWI).

GEOL 202. Aqueous Geochemistry. 3 Units
Prerequisite(s): CHEM 1B; instructor permission.
Term Typically Offered: Fall, Spring

Low temperature geochemical reactions in aqueous environments. Chemical kinetics, thermodynamics, mixing and dilution, mineral stability, chemical composition of surface water, stable isotopes. Three hours lecture.

GEOL 204. Contaminant Hydrogeology. 3 Units
Prerequisite(s): CHEM 1B and CHEM 6B or CHEM 20, GEOL 202.
Term Typically Offered: Fall, Spring

Contaminants and contaminant transport in near-surface environments. Fluid-sediment interaction, fluid partitioning, common geochemical reactions, stability and mobility of groundwater contaminants, multi-phase systems, sampling considerations and overview of analytical techniques.

GEOL 208. Groundwater Modeling. 3 Units
Prerequisite(s): GEOL 127, MATH 45.
Term Typically Offered: Fall, Spring

Computer modeling of groundwater systems using 2 and 3 dimensional numerical solutions and common software packages. Topics will include data acquisition, constructing a numerical model, model calibration, flow paths, particle tracking and model output.

GEOL 212. Geologic Remote Imaging. 3 Units
Prerequisite(s): PHYS 5B or PHYS 11B; GEOL 102, GEOL 110A; and proficiency using a personal computer.
Term Typically Offered: Fall, Spring

Use of remote imaging in geologic applications. Types of imagery, acquisition, production, processing, and interpretation are covered.

GEOL 213. Advanced Structural Geology and Tectonics. 3 Units
Prerequisite(s): GEOL 110A and MATH 30
Term Typically Offered: Fall, Spring

An advanced treatment of deformation of the lithosphere of the earth over short and long timescales. Construction of 2D and 3D models of the crust. Use of software packages to solve problems in tectonics and related disciplines.

GEOL 214. Advanced Volcanology. 3 Units
Term Typically Offered: Fall, Spring

Analyzes volcanic eruption processes. Interpretation of volcanic deposits in the evaluation of volcanic hazards, risk, eruption processes, and geologic history. Field trip.
Field trip(s) may be required.

GEOL 218. Applied Geophysics. 3 Units
Prerequisite(s): PHYS 5B or PHYS 11C and GEOL 112.
Term Typically Offered: Fall, Spring

Advanced field techniques used for geophysical exploration. Data collection and problem solving using resistvity, conductivity, seismic reflection, seismic refraction, gravity, magnetics and borehole geophysical techniques. Lecture two hours, laboratory three hours.

GEOL 220. Surficial Processes. 3 Units
Prerequisite(s): GEOL 120 or equivalent.
Term Typically Offered: Fall, Spring

Dynamics of geological processes and the landscapes they carve. System thresholds, linked processes, data generation and evaluation that characterize landscape development.

GEOL 223. Geochemistry. 4 Units
Prerequisite(s): CHEM 1A, MATH 30, GEOL 100, or instructor permission.
Term Typically Offered: Fall, Spring

Fundamentals of the geochemistry of Earth materials. Thermodynamics and kinetics of geological environments, silicates and carbonates, major element geochemistry, trace and rare earth element geochemistry, stable and radiogenic isotopes. Applications to studies of aqueous, pedogenic, igneous, sedimentary, and metamorphic environments. Analysis of geochemical aspects of contemporary resource, environmental, and paleoenvironmental problems.
Note: Lecture 3 hours = 3 units; laboratory 170 minutes = 1 unit.

GEOL 227. Advanced Hydrogeology. 3 Units
Prerequisite(s): GEOL 127, graduate level status in Geology.
Term Typically Offered: Fall, Spring

Water budgets, theories of groundwater flow to wells, hydrogeologic regimes, fracture flow, dewatering, salt water intrusion, dating and chemical identification of water. Lecture 3 hours.

GEOL 230. Seminar In Geology. 3 Units
Term Typically Offered: Fall, Spring

Reading, analysis and discussion of the geologic literature on selected topics in geology. Student presentations and reports are required.
Note: May be taken twice for credit.

GEOL 240. Special Topics. 1 - 3 Units
Prerequisite(s): Will vary with each special topic course.
Term Typically Offered: Fall, Spring

Advanced special topics in Geology that may include structural geology, volcanology, hydrogeology, engineering geology or other specialized topics selected to meet student demand or respond to industry trends in geology.

GEOL 275. Quantitative and Numerical Research Methods. 3 Units
Prerequisite(s): MATH 31
Term Typically Offered: Fall, Spring

Introduction to quantitative and numerical methods of solving geologic problems using high level programming.

GEOL 290. Regional Geology of the Western US. 3 Units
Prerequisite(s): GEOL 100, GEOL 102, GEOL 103 and GEOL 110A.
Term Typically Offered: Fall, Spring

Application of advanced geological concepts in tectonics, stratigraphy, sedimentology, petrology, and volconism to the geologic evolution of the Western United States from Precambrian to present. Field trip. Course Fee.
Field trip(s) may be required.

GEOL 293. Engineering Geology. 3 Units
Prerequisite(s): GEOL 193C.
Term Typically Offered: Fall, Spring

Takes a geological approach to evaluating engineering issues associated with building with or on natural earthen materials. Rock and soil mechanics, slope stability, geophysical investigation of rock and soil properties.
Note: 150 minutes Lecture = 3 units.

GEOL 299. Special Problems in Geology. 1 - 4 Units
Prerequisite(s): Graduate-level status in geology, approval of project by a faculty sponsor and Department Chair; instructor permission.
Term Typically Offered: Fall, Spring

Graduate research. Independent research in geology that may include library research, short-term original research, technique development, fieldwork, or laboratory research. May include research toward thesis proposal. Culminating experience will be in the form of a written report, oral presentation, or scientific paper.

GEOL 500. Master's Thesis. 6 Units
Prerequisite(s): Advanced to candidacy and chair permission of his/her thesis committee.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree. Should be taken in the final semester prior to the completion of all requirements for the degree.

GEOL 596. Comprehensive Examination. 0 Units
Term Typically Offered: Fall, Spring

A written comprehensive examination administed by a committee of three faculty members. Assesses the student's ability to integrate knowledge from core and elective courses, show critical and independent thinking, and demonstrate mastery of the subject matter. Required for the non-thesis option. Graded: CR/NC. May be retaken one time after 4 calendar months. Units: 0.
Credit/No Credit

German (GERM)

GERM 1A. Elementary German. 4 Units
Term Typically Offered: Fall only

Focuses on the development of listening, speaking, and reading skills. Special attention will be given to the relationship of the language to the civilization and culture of the German-speaking countries.

GERM 1B. Elementary German. 4 Units
Prerequisite(s): GERM 1A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Fall, Spring

Continuation of GERM 1A. Speaking, listening, and reading skills are practiced and more emphasis is placed on the development of writing skills than in GERM 1A. Cultural introduction to the German-speaking countries is continued.

GERM 2A. Intermediate German. 4 Units
Prerequisite(s): GERM 1B or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of GERM 1B with review of grammar and with further development of reading ability but with a greater emphasis on active skills in speaking and writing.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

GERM 2B. Intermediate German. 4 Units
Prerequisite(s): GERM 2A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Spring only

Continuation of GERM 2A with greater emphasis on skills in writing.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

GERM 5A. German Language Practice. 3 Units
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Practice with German conversation and vocabulary; supervised individual and small-group instruction designed to develop German vocabulary, including conversation and listening skills at an intermediate level.
Note: Meets the Foreign Language Graduation Proficiency Requirement. May be taken for credit four times.

GERM 100. Advanced German Grammar. 3 Units
Term Typically Offered: Fall, Spring

Study of grammar and style and their practical application in writing and speaking.

GERM 105. Advanced German Language Practice. 3 Units
Term Typically Offered: Spring only

Supervised individual and small-group practice for upper-division students desiring to improve their German language skills, especially conversation, listening and vocabulary. Some written work may be assigned. May be taken for credit three times, but may count only once for major or minor credit.

GERM 140. Heroes, Dragons and Quests. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Exploration of the heroic adventures of the medieval knights in their quests for fame and love, with special attention to the bridal quest and the roles of their 'ladies': their social, political, and economic position, and their impact on life in the Middle Ages. Discussions will be based on the reading of selected Middle High German works in English translation.
Note: No German language requirement.

GERM 141. German Mythology and Legend. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Exploration of Germanic myth and legend and their impact on art and literature. Readings in English.
Note: No German language requirement.

GERM 142. German Folk Literature, Legend, and Lore. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Study of the traditional folk literature; fairy tales, folk tales, legends, ballads and folk songs; of the German-speaking people, their holiday traditions, festivals and social customs. Readings in English.
Note: No German language requirement.

GERM 143. King Arthur and the Knights of the Round Table in Germany. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Study of King Arthur and the knights of the Round Table in the German medieval romances read in English translation.
Note: No German language requirement. Course will be offered every two years.

GERM 150. German Civilization: Beginning to 16th Century. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Historical, social, and artistic forces in German civilization from the time of the Great Migrations to the Reformation. All readings and lectures in English.

GERM 151. German Civilization: 17th Century to Present. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Historical, social, and artistic forces in German civilization from the Reformation through the 20th century. All readings and lectures in English.

GERM 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in German and instructor permission.
Term Typically Offered: Fall, Spring

Directed fieldwork in a project which uses the language skills developed through previous study of German. The projects may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. May be taken more than once for credit.
Credit/No Credit

GERM 195. Fieldwork: Tutoring. 1 - 3 Units
Prerequisite(s): Native/near-native fluency in German; upper division status; instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division students of German under supervision of instructor. May be taken for credit more than once.
Credit/No Credit

GERM 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of instructor supervising the work.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on independent study.

Credit/No Credit

Gerontology (GERO)

GERO 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Provide students with the opportunity to interact with fellow students and the seminar leader and to build a community of academic and personal support, as well as explore gerontological concepts needed to respond to demographic changes in today's world.

GERO 100. Aging Issues in Contemporary America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Introduction to the field of Gerontology and how the discipline addresses society's aging needs. An examination of current issues in gerontology using a life span perspective focusing on older adults' needs/concerns along life's continuum in various environments. Major topics include implications of the demographic imperative, common aging changes/conditions, myths and stereotypes, effects of health/illness on individual and family roles, basic social issues and policies arising from the graying of America, and media, cultural and gender influences.

GERO 101. Elder Care Continuum Services and Strategies. 3 Units
Term Typically Offered: Fall, Spring

Exploration and analysis of the 'elder care service continuum' within the context of changing diverse societal needs, service availability and accessibility, current public policy, and administrative and management issues facing care providers. A multidisciplinary examination of the spectrum of services and programs targeted for older adults and their families. Includes information and referral processes and agencies, recreational and social options, housing alternatives, in-home, residential and skilled care options, health care eligibility criteria, funding sources, and adult protective services.
Note: This is a service learning course.

GERO 102. Social Policy for an Aging Society. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150 or equivalent.
Term Typically Offered: Fall, Spring

Explores context and process for policy making by national and California state governments including ethical dimensions. Applications are developed from students' and instructor's areas of interest including K-12 and higher education, land-use policy, and aging issues such as elder advocacy, Social Security, and Medicare/Medicaid. Provides background and skills for entry level positions in public or non-profit organizations.
Cross Listed: PPA 100; only one may be counted for credit.

GERO 103. Applied Care Management in Gerontological Practice. 3 Units
Prerequisite(s): GERO 101
Term Typically Offered: Fall, Spring

Students will analyze issues, services, and interventions related to care management with older adults. They will apply strategies for identifying and accessing services targeted for older adults, their families/caregivers. Students will develop an understanding of unique characteristics/needs of elders, the systems approach to working with elders, issues affecting service delivery to this population, and basic practice skills for effective service delivery to elders and families/caregivers. Students have the opportunity to work with individuals residing in a senior residential community.
Note: This is a service learning course.

GERO 121. Strategies for Optimal Aging. 3 Units
Term Typically Offered: Fall, Spring

This course is an in-depth, interdisciplinary, and holistic exploration of health promotion and adaptation paradigms that facilitate optimal and productive longevity. Hardiness and self-efficacy theories along with expectations and experiences enhancing quality of life are explored. Interactions among such variables as activity, diet, exercise, work/leisure, attitudes/beliefs, humor, living environments, spirituality, and social networks are investigated within the contexts of gender, economic, and cultural perspectives.
Cross listed: GERO 221

GERO 122. Managing Disorders in Elders. 3 Units
Prerequisite(s): GERO 121
Term Typically Offered: Fall, Spring

Study and analysis of prevalent pathophysiological-based diseases and psychological disorders commonly experienced by older adults and frail elder populations. Disease/disorder causes and the effects of chronic illness on individuals' activities of daily living, sexuality, relationships, and coping abilities with changing lifestyles are examined using a life course framework and evidenced-based research. Assessment tools, lab value changes, medication needs, complications/disabilities, traditional/alternative treatments and ethical issues rising from meeting needs are investigated along with implications for caregivers.

GERO 123. Research on Aging & the Life Course. 3 Units
Prerequisite(s): Minimum of one GERO upper division course or instructor permission.
Term Typically Offered: Fall, Spring

Analysis, evaluation, and application of existent gerontological research. Hands-on practice carrying out aging-related research projects, including defining the research question, selecting data collection tools, collecting and analyzing quantitative and qualitative data, and presenting results in narrative and visual formats. Special emphasis on connecting gerontological theory, research, and interdisciplinary practice, accommodating participants with sensory, physical, or cognitive limitations, and ethical issues.

GERO 124. Perspectives on Death and Dying. 3 Units
Prerequisite(s): Student's academic level must be Junior of higher to enroll in this class.
Term Typically Offered: Fall, Spring

Examination of the beliefs, attitudes, and behaviors associated with death and dying. Topics covered include children's and adult's concepts of dying and death; causes and types of death; self-destructive behavior; grief and mourning in the dying person and their survivors; physicians' aid in dying and other legal and ethical issues; and cross-cultural and historical perspectives on death.
Cross listed: PSYC 151

GERO 130. Gerontology Practicum. 3 Units
Prerequisite(s): 24 Major units including GERO 101, GERO 102, GERO 103, GERO 121, GERO 122 and instructor permission.
Term Typically Offered: Fall, Spring

Supervised practicum experience in a community agency planning for or delivering professional services to older adults. This practicum experience is part of two culminating courses for the major and focuses on application of the interdisciplinary nature of the discipline while affording students direct, hands on experiences. Includes a field seminar. Seminar discussions focus on the application of gerontological concepts derived from all gerontology courses and are applied to each student's specific practicum area.
Note: This is a service learning course.

Credit/No Credit

GERO 131. Gerontology Capstone Practicum. 3 Units
Prerequisite(s): 36 Major units including GERO 101, GERO 102, GERO 103, GERO 121, GERO 122, GERO 130 and instructor permission.
Term Typically Offered: Fall, Spring

Supervised internship experience in a community agency planning for or delivering professional services to older adults. This capstone practicum experience builds on the first internship course and is the final culminating course for the major and focuses on advanced application of the interdisciplinary nature of the discipline while affording students direct, hands on experiences. Includes a field seminar. Seminar discussions focus on the application of gerontologic concepts derived from all gerontology courses and are applied to each student's specific Practicum area.
Note: This is a service learning course. Minors may take this course without taking GERO 130

Credit/No Credit

GERO 199. Special Problems. 1 - 3 Units
Prerequisite(s): Advanced approval of project goal and objectives by program director.
Term Typically Offered: Fall, Spring

Independent research, project, or directed reading.
Note: Open to students who are capable of independent work. A maximum of 3 units may count toward elective major requirements.

Credit/No Credit

GERO 200. Adaptation To Age Related Changes, Illnesses and Caregiving. 3 Units
Term Typically Offered: Fall, Spring

Exposure to and analysis of positive and negative functional consequences arising from age related changes and illnesses in elders. Content elucidates changes and their effects on elders' levels of wellness using interdisciplinary research and holistic, life course frameworks. Screening assessments, interventions, community resources and services, and ethical issues are addressed for each topic. Caregiving issues and solutions are explored within life span and problem solving frameworks.

GERO 221. Strategies for Optimal Aging. 3 Units
Term Typically Offered: Fall, Spring

This course is an in-depth, interdisciplinary, and holistic exploration of health promotion and adaptation paradigms that facilitate optimal and productive longevity. Hardiness and self-efficacy theories along with expectations and experiences enhancing quality of life are explored. Interactions among such variables as activity, diet, exercise, work/leisure, attitudes/beliefs, humor, living environments, spirituality, and social networks are investigated within the contexts of gender, economic, and cultural perspectives.
Cross listed: GERO 121

GERO 222. Managing Disorders in Elders. 3 Units
Prerequisite(s): GERO 221
Term Typically Offered: Fall, Spring

Offers in-depth study/analysis of prevalent pathophysiological-based diseases and psychological disorders commonly experienced by older adults and frail elder populations. Disease/disorder causes and the effects of chronic illness on individuals' activities of daily living, sexuality, relationships, and coping abilities with changing lifestyles are examined using a life course framework and evidenced-based research. Assessment tools, lab value changes, medication needs, complications/disabilities, traditional/alternative treatments and ethical issues rising from meeting needs are investigated along with implications for caregivers.
Cross Listed: GERO 122; only one may be counted for credit.

GERO 295. Internship/Project. 3 Units
Prerequisite(s): GERO 200, GERO 221, GERO 222.
Term Typically Offered: Fall, Spring

Supervised fieldwork internship or project that is a culminating experience and applies learned gerontological theories and concepts in a community setting where planning, developing, or delivering services to older adults or their families occurs. Students choose an area of practice and negotiate their learning experiences or project with their faculty advisor and field supervisor. Advanced approval of project goal and objectives by program director are required.
Credit/No Credit

GERO 299. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Independent research, project, or directed reading. Open to students who are capable of independent work. A maximum of 3 units may count toward elective major requirements. Advanced approval of project goal and objectives by program director.
Credit/No Credit

Graphic Design (GPHD)

GPHD 5. Introduction to Graphic Design. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Introduction to the field of Graphic Design. Subjects include career possibilities, current trends, issues and practices in the industry. The basic theory, techniques and practices involved in solving a visual communication problem will also be introduced.

GPHD 10. Introduction to Digital Design. 3 Units
Term Typically Offered: Spring only

Designed to familiarize students with basic understanding of the digital hardware, software, and vocabulary utilized by visual artists from a variety of disciplines. Discussions and activities will cover both creative and efficient application of digital tools and techniques. Students will complete assignments utilizing a variety of applications which may include page layout, illustration, digital image processing, and 3-D rendering software.

GPHD 20. History Of Graphic Design. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Overview of the history of graphic design. Emphasis on symbol, type, and image development, from early pictographs to modern communication design.

GPHD 25. Visual Basics. 3 Units
Prerequisite(s): ART 20A or Pre - Interior Design Major.
Term Typically Offered: Fall, Spring

Provides a basic understanding of how visual structures are created and interpreted. Students study the main components of visual structures, become familiar with basic laws of color, and learn the basics of the gestalt principles of visual organization.

GPHD 30. Visual Basics II. 5 Units
Prerequisite(s): GPHD 25
Term Typically Offered: Fall, Spring

Introduction to the tools, materials and methodologies of the creative process in graphic design. Students study the main components of visual structures, become familiar with basic laws of color, and learn the basic principles of visual organization. The skill of rapid prototyping, through the processes of idea development, thumbnailing, sketching, and mockup, will be covered. Basic concepts in visual systems and graphic message making will be introduced. A special emphasis will be placed on craftsmanship in this course.

GPHD 120. Typography I. 5 Units
Prerequisite(s): DSGN 4, INTD 20, INTD 25, PHOT 20, PHOT 11, GPHD 5, GPHD 20, GPHD 25, GPHD 30, and acceptance into the major via supplemental application.
Corequisite(s): GPHD 125 Fee course.
Term Typically Offered: Fall, Spring

Explores the history and perceptual development of typography and its application in design solutions. Theoretical constructs of typography as they relate to legibility, clarity, composition and output will be addressed. Techniques using compositional layout applications will be covered with an emphasis in typographic accuracy and efficiency as well as preparation of digital files for proper output in a variety of digital and analog formats.
Fee course.

GPHD 122. Design Production and Management. 3 Units
Prerequisite(s): GPHD 5 or GPHD 20, and ART 20A, PHOT 40, GPHD 10, GPHD 20, GPHD 25, GPHD 30, and be a declared GPHD major.
Corequisite(s): GPHD 120, GPHD 125.
Term Typically Offered: Fall only

Introduction to project management techniques specific to the creative business and technical processes for graphic design. Orchestration of image editing, vector and compositing software will be covered with an emphasis in accuracy and efficiency. Various codes and regulations related to graphic design will be reviewed.

GPHD 125. Graphic Design Systems I. 5 Units
Prerequisite(s): DSGN 4, GPHD 5, GPHD 20, GPHD 25, GPHD 30, INTD 20, INTD 25, PHOT 11, PHOT 20, and acceptance into the major via supplemental application.
Corequisite(s): GPHD 120 Fee course.
Term Typically Offered: Fall, Spring

Introduction to the language and perception of design as it is applied to systems. Complex visual structures are created, used in composition and interpreted. Techniques on ideation, design thinking, storyboarding and presentation are covered. Color theory as an integral component of message is addressed. Introduction to project management techniques specific to the creative business and technical processes for graphic design.
Fee course.

GPHD 130. Typography II. 5 Units
Prerequisite(s): GPHD 120, GPHD 125.
Corequisite(s): GPHD 135. Fee course.
Term Typically Offered: Fall, Spring

Advanced typography and its relationship with message. Application of typographic principles to a diverse series of graphic design problems utilizing type and image. Techniques in using a range of digital tools to execute solutions are reviewed.
Fee course.

GPHD 135. User Interface Design. 5 Units
Prerequisite(s): GPHD 120, GPHD 125
Corequisite(s): GPHD 130
Term Typically Offered: Spring only

Emphasis is on design of a user-centered experience in an interactive environment. Enables the students to understand the characteristics of relevant technology and select appropriate forms and functions to create specific experience for users. Introduction to formative research techniques to establish context and audience and summative research techniques to determine success of screen based design solutions.

GPHD 140. User Experience Design. 5 Units
Prerequisite(s): GPHD 130, GPHD 135
Corequisite(s): GPHD 145
Term Typically Offered: Fall, Spring

Emphasis on the development of conceptual themes, formal exploration, and user-centered interaction in time-based design. Enables the students to create vital experiences using text, sound, image, motion, and interactivity. The ability to compile, use, and defend relevant formative and summative research in creation of an appropriate design solution will be covered.

GPHD 142. Advanced Graphic Design I. 3 Units
Prerequisite(s): GPHD 130, GPHD 135.
Corequisite(s): GPHD 140, GPHD 145.
Term Typically Offered: Fall, Spring

Builds on established research, process and project management techniques and provides students with the opportunity to focus on a practical investigation in design. Theoretical, professional, and historical issues facing the design profession will be reviewed. Development of both visual and written research material will culminate in an oral presentation and then be applied to an appropriate project.

GPHD 145. Typography II. 5 Units
Prerequisite(s): GPHD 130, GPHD 135.
Corequisite(s): GPHD 140 Fee course.
Term Typically Offered: Fall, Spring

Builds on established research, process, and project management techniques and provides students with the opportunity to focus on a practical investigation in design. Development of both visual and written research material will culminate in an oral presentation and then be applied to an appropriate project. Semiotics as applied to advanced design problems will be discussed. Image making will be stressed in this course as students experiment with techniques and media including, but not limited to, photography and illustration.
Fee course.

GPHD 150. Graphic Design Digital Portfolio. 3 Units
Prerequisite(s): GPHD 140, GPHD 142, GPHD 145.
Corequisite(s): GPHD 152, GPHD 155.
Term Typically Offered: Fall, Spring

Introduction to the concepts and tools used in a digital portfolio production for entry into the practice of design or the advanced study. Exploration and development of the graphic design portfolio and resume in digital and print form. Discussions will cover such topics as networking, interview tips, employment issues, and presentation skills.

GPHD 152. Advanced Graphic Design II. 3 Units
Prerequisite(s): GPHD 140, GPHD 142, GPHD 145.
Corequisite(s): GPHD 150, GPHD 155.
Term Typically Offered: Fall, Spring

Advanced course in graphic design that requires students to provide solutions to real world design problems. Helps refine the students individual design process and advance their understanding of professional practice. Professional, business, and ethical issues facing the design profession will be reviewed. Development of both visual and written material will be required in a group environment as well as oral and visual presentations of this material.

GPHD 155. Graphic Design Systems II. 5 Units
Prerequisite(s): GPHD 140, GPHD 145.
Corequisite(s): GPHD 150 Fee course.
Term Typically Offered: Fall, Spring

Advanced study of visual systems as applied to branding and way finding. Construction of visual systems for an expansive multi-dimensional design solutions will be covered. Introduction to methods, techniques, and approaches of emotion-driven brand development. Application of syntactic, semantic, and pragmatic aspects of pictorial design systems to wayfinding system development. Exploration of the interplay between environmental conditions and human culture impact decisions in wayfinding system development.
Fee course.

GPHD 195. Fieldwork in Graphic Design. 3 Units
Prerequisite(s): Upper division status; GPA of 2.5 or above; GPHD 130, GPHD 135; instructor permission.
Term Typically Offered: Fall, Spring

Directed observation and supervised work experience in an approved business, government, or service agency. Internships are offered to increase student understanding of the nature and scope of agency operations and giving students orientation in occupational specialties. Supervision is provided by authorized persons in the cooperating agencies and collaborative supervision is provided by the Graphic Design faculty. Minimum of three hours per week per unit of credit is required. Each student maintains a record of activities and assignments and prepares periodic reports.
Note: Students must make arrangements with a faculty member for a work program prior to admittance. No more than 6 units of GPHD 195 may be counted toward the major.

Credit/No Credit

GPHD 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed projects open to students who wish to attempt independent work.
Note: Faculty approval is required. No more than 6 units of GPHD 199 may be counted toward a Graphic Design degree.

Credit/No Credit

Greek (GREK)

GREK 1A. Elementary Ancient Greek. 4 Units
Term Typically Offered: Fall, Spring

GREK 1B. Elementary Ancient Greek. 4 Units
Term Typically Offered: Fall, Spring

GREK 6A. Elementary Modern Greek. 4 Units
Term Typically Offered: Fall, Spring

Designed to prepare students to read, speak, and understand Modern Greek. Focuses on the study of grammar and vocabulary, as well as the reading of adapted passages. Classroom time will be spent on drills and on elementary dialogues among the students and between the students and the instructor. These drills simulate everyday life situations. No previous exposure to the language is required.

GREK 6B. Elementary Modern Greek. 4 Units
Prerequisite(s): GREK 6A.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

A continuation of GREK 6A, emphasizing the further development of skills in reading, speaking, and understanding Modern Greek. Reading selections from newspapers and other contemporary sources. Further classroom dialogues among students and between students and the teacher.

GREK 199. Special Problems in Greek. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed readings.
Note: Open only to students who appear competent to carry on independent study; admission requires the approval of the instructor by whom the work is to be supervised.

Credit/No Credit

Health and Human Services (HHS)

HHS 21. First Year Seminar for Health and Human Services Careers: ¿Becoming an Educated Person¿. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

New students are faced with many challenges ¿ making new social connections, maintaining high GPAs, and learning independence. HHS 21 provides insight to the wide range of careers in the health and human service fields, and introduces students to the meaning of higher education, the resources of the University, and skills for lifelong learning. Students will develop academic success strategies, and improve information literacy, intercultural competence, and integrative thinking. The seminar is a foundation for academic and personal support.

HHS 101. Interprofessional Education: A Collaborative Team-Based Learning Approach. 3 Units
Term Typically Offered: Fall, Spring

This course introduces the foundations of interprofessional collaborative practice. Students will engage in self-directed learning with other disciplines through the exploration of values and ethics for interprofessional practice, roles and responsibilities of health care providers, interprofessional communication strategies, and the development of high functioning teams in health care. The course includes a clinical/practicum component; it teaches students to support clients with chronic conditions while working with an interprofessional teams at the CHHS on-campus Interprofessional Stroke Recovery Resource and Community Center.

HHS 160. Senior Seminar: Health Science Careers, Policy, and Research. 3 Units
Prerequisite(s): PUBH 114, PUBH 122 and Health Science major or instructor permission.
Term Typically Offered: Fall, Spring, Summer

This capstone course provides an overview of professional opportunities in health science. The course will explore the types of roles and opportunities in health professions, broader public and private health systems, and why it is important to have a comprehensive and interdisciplinary understanding of health science. As a capstone experience, the course must be taken during the final semester of the student's plan of study.

HHS 196A. Law+The Human Services. 3 Units
Term Typically Offered: Fall, Spring

HHS 196Y. Youth Recreation in Camp Settings. 1 - 3 Units
Term Typically Offered: Summer only

This course examines camp programs in a wide variety of settings, for a variety of populations. Topics cover camp theories, camp management, risk-management, activity planning, inclusive programming, and staff training. Includes an emphasis on leadership, supervision, and organizational development of camp programs. Course uses lecture, field experiences, guest speakers, and service learning.
Note: Students should be aware that Camp Nej, which is the associated camp for this course, is in a remote, wilderness setting; students will stay on-site while the camp is in session.

Health Science (HLSC)

HLSC 222. Health Communication Strategies. 3 Units
Prerequisite(s): Master of Public Health major or instructor permission.
Term Typically Offered: Fall only

Provides students with knowledge and understanding of health communication theory and research. Students will examine the effects of media, including mass media, social media, and participatory media, in promoting or impeding public health goals and achievements. This course emphasizes the importance of public engagement and the development of effective communication with public health stakeholders including consumers, community goals, policy makers, health care providers, news media, and the general public.

HLSC 224. Program Planning. 3 Units
Prerequisite(s): Master of Public Health majors or instructor permission and HLSC 201
Term Typically Offered: Fall only

Covers the elements needed for successfully planning and implementing a health promotion program including the application of health behavior theory and program planning models. Students will apply concepts of social and physical determinants of health, community structure on health status, social/health policies of communities and personal health behaviors in program planning design and implementation.

HLSC 295. Seminar and Practicum Experience. 3 Units
Prerequisite(s): Master of Public Health or instructor permission
Term Typically Offered: Spring only

Provides students with in-depth supervised experience in an approved organization during their graduating semester. The practicum will require students to complete an applied practice experience related to a public health issue that is a focus within the organization. Seminars will discuss and review the integration of core public health concepts with the practicum. Students will create materials that demonstrate the analysis, synthesis, and intersection of course work and practicum work, while demonstrating mastery of the broad field of public health. Field Trip. Credit/No Credit
Field trip(s) may be required.

History (HIST)

HIST 4. Survey of Early Western Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Survey of the earliest civilizations with emphasis on the contributions of the Hellenic, Roman and the Medieval eras to the West. Continues to the close of the Middle Ages. Stress is placed on social, economic, as well as political factors.

HIST 5. Survey of Modern Western Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Survey of the development of western civilization from the Renaissance to the present day. Stress is placed on social and economic, as well as political, factors.
Note: Not open for credit to students receiving prior credit in HIST 105.

HIST 6. Asian Civilizations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to major developments in the histories and cultures of China, Japan, and India -- origins of civilizations, great empires, religions, growth and spread of cultures, alien invasions, Western impact, nationalist movements, modernization, and characteristics of contemporary society.

HIST 7. History of African Civilizations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introductory survey of the history of Africa from earliest times to the present. Major topics include: origins of humanity and society, civilizations of the Nile Valley, the peopling of Sub-Saharan Africa, African societies to 1500, pre-colonial Saharan and Sub-Saharan Africa, Colonial Africa and the emergence of modern states in Africa.

HIST 8. History of Islamic Civilizations. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introductory survey of the history of Islamic societies of Asia, Africa, and the Middle East from the 6th century to the present. Focus will be on both continuities and the discontinuities that distinguish them from one another. Topics will include: religious, political, social, and cultural development in Islamic civilization during the premodern period, and reform, western imperialism, nationalism, and religious politics in the modern period.

HIST 10. History's Mysteries: Thinking Critically about the Past. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

From the builders of the Pyramids to the cause of the Holocaust: unlock mysteries of the past; apply historical thinking skills to answer compelling historical questions; sharpen reasoning and argumentative skills; evaluate historical evidence; learn to recognize scientific standards of historical investigation; hone college level writing skills. Topics vary based on instructor's expertise.

HIST 15H. Major Problems in U.S. History. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), United States History
Term Typically Offered: Fall, Spring

A survey of topics in American history from the colonial period to the end of the twentieth century. Subjects may include reform movements, immigration, racial problems, religion, politics and the role of women.
Note: Fulfills graduation requirement for U.S. History and Race and Ethnicity.

HIST 17A. United States History, 1607-1877. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D, United States History
Term Typically Offered: Fall, Spring

Basic historical survey of the rise of American civilization from colonial beginnings through the rebuilding of the union during Reconstruction.
Note: Fulfills state graduation requirement for U.S. History.

HIST 17B. United States History, 1877-Present. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Basic historical survey of the growth of urban-industrial American civilization and its rise to world power, 1877-present.
Note: Fulfills state graduation requirement for U.S. History.

HIST 18. Health, Medicine, and Science in America, 1600-Present. 3 Units
Term Typically Offered: Fall, Spring

This course will examine science, medicine, and public health in America from the colonial era through the present.

HIST 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature of higher education, and the functions and resources of the University. Designed to help students develop academic success strategies and to improve learning skills. Students will interact with fellow students to build a community of academic and personal support. Introduces history as an academic discipline by requiring students to interpret historical information about issues such as academic freedom and the development of racism.

HIST 50. World Civilizations, Beginnings-1600. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Study of some major civilizations of the world from the beginnings of civilization to 1600. Covers the classical and medieval traditions of the West as well as at least two major non-western cultures.

HIST 50H. World History I: to 1500. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Intensive comparative history of the world's major civilizations that highlights human community's increased level of connection. Explores the diverse global culture, political, and economic patterns from the origins of complex societies to the birth of modern capitalism.

HIST 51. World History from 1500 to the Present.. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A survey of the increased inter-connections of the world's civilizations from the conquest of the Americas to the dawn of the 21st century. Explores the history of the human community's political development, culture diversity, and economic globalization.

HIST 51H. World History from 1500 to the Present. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

An intensive survey of the increased inter-connections of the world's civilizations from the conquest of the Americas to the dawn of the 21st century. Explores the history of the human community's political development, cultural diversity, and economic globalization.

HIST 100. Introduction to Historical Skills. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the skills of secondary and primary source research, critical analysis of documentary sources, historical reasoning and the preparation of written reports. Attention to research procedures, record-keeping, citation, and bibliography.
Note: Open to History majors who have completed at least 6 units of required lower division coursework. Recommended for second semester of sophomore year.

HIST 101A. Language and written culture in Ancient Greece. 3 Units
Term Typically Offered: Fall, Spring

This is part of the two-semester hybrid course on Ancient Greek language and written culture. The language component of the course is taught online through interactive language-teaching website, while the weekly meetings are mainly discussions on Ancient Greek texts in translation. The focus in this first part is on basic grammatical rules, the reading and construction of simple sentences, and the study of Greek written culture from its beginnings to the Classical Period.
Cross Listed: WLL 120A; only one may be counted for credit.

HIST 101B. Language and written culture in Ancient Greece. 3 Units
Prerequisite(s): HIST 101A
Term Typically Offered: Spring only

This is the second part of a two-semester hybrid course on Ancient Greek language and written culture. The language component of the course is taught online through an interactive language-teaching website, while the weekly meetings are mainly discussions on Ancient Greek texts in translation. The focus in this second part is on advanced grammar, the reading and understanding of long passages, and the study of Greek written culture from the Classical Period to the Roman era.
Cross Listed: WLL 120B; only one may be counted for credit.

HIST 102A. Culture and Language in Modern Greece, 1821-1909. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

This is the first part of a two-semester hybrid course on modern Greek language, history, and culture. This course is an introduction to the main cultural forces in history and literature that shape modern Greek society. It explores the historical development of modern Greek culture from the period of the Greek War of Independence to the present. Students will also obtain a basic level of modern Greek grammatical rules, the reading and writing of simple sentences, and basic everyday conversation skills.

HIST 102B. Culture and Language in Modern Greece, 1909-Present. 3 Units
Prerequisite(s): Student must complete HIST 102A with a minimum 'C-' grade or better.
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

This is the second part of a two-semester hybrid course on modern Greek language, history, and culture. This course is an introduction to the main cultural forces in history and literature that shape modern Greek society. It explores the historical development of modern Greek culture from the period of the Greek War of Independence to the present. Students will also obtain a basic level of modern Greek grammatical rules, the reading and writing of simple sentences, and basic everyday conversation skills.

HIST 103. Mediterranean Europe: From the Renaissance to the European Union. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Traces the development of Southern European countries from the Renaissance to European Union membership. These two 'rebirths' for Europe had a unique impact on Portugal, Spain, Italy and Greece. Focuses on the political, economics, and cultural aspects of these Mediterranean countries.

HIST 104A. Ancient Science. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

An examination of the theories, experiments, and calculations of Greek and Roman scientists as well as the work of major contributors to astronomy, natural philosophy, medicine, and technology in the ancient period.

HIST 105. Great Ages and Issues in Modern European History. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Advanced analysis of topics in modern European history from the Renaissance to the present. Emphasis is placed upon primary sources and contemporary as well as historical interpretations of the sources.
Note: Not open for credit to students receiving prior credit in HIST 5.

HIST 106. Everyday Life and Society in Antiquity. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

An overview of social beliefs and practices in a variety of ancient cultures, including Ancient Greece, Rome, and the Near East chronologically ranging from Late Prehistory to the rise of Christianity. All the examined themes are approached comparatively and on the basis of ancient historical evidence, consisting of both texts and archaeological materials.

HIST 107. History of the Physical Sciences. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Study of the development of the major physical laws presently used in describing our physical world. Some considerations of the influences of these developments on other areas of knowledge and on society in general.
Cross Listed: PHSC 107; only one may be counted for credit.

HIST 108. Ancient Egypt: History & Culture. 3 Units
Term Typically Offered: Fall, Spring

Overview of the history of ancient Egypt from prehistory to the Roman conquest, combined with a study of cultural development in areas of ancient Egyptian religion, art, and literature.

HIST 109. History of Modern Greece. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduces the fundamental events and figures that shaped modern Greek history and politics. Topics will include: the Greek War of Independence, the Megali Idea, the Asia Minor Catastrophe, and Greece's entry into the European Union. No prior knowledge of Greece or Greek language assumed.

HIST 110. The Ancient Near East: A Cultural History. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Growth and development of Ancient Near Eastern civilization with emphasis on Mesopotamia and Egypt as the foundation of ancient Mediterranean civilization. Religion, literature, art and social institutions will all be stressed as integral elements in an historical process.

HIST 111. Ancient Greece. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Political, social, and cultural development of Greece from the Mycenaeans to the post-Alexandrian world with emphasis on Fifth Century Athens and on a reading of Thucydides.

HIST 112. Ancient Rome. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Rome from its foundation to Justinian with emphasis on its political institutions, their strengths and weaknesses, social structure, the ancient economy, paganism and Christianity, and the end of ancient civilization.

HIST 113. Early Medieval Europe. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

The transformation of Mediterranean civilization from Late Antiquity to its three heirs: Western Europe, Byzantium and Islamic Civilization. Topics include: Late Antique Christianity, monasticism, economic and trade structures, Islamic conquests, Carolingian civilization, medieval archaeology and technology, and the origins of manorialism and feudalism.

HIST 114. Europe in the High Middle Ages. 3 Units
Term Typically Offered: Fall, Spring

Flourishing of European civilization from the Gregorian reform (11th century) until the end of the Middle Ages. Emphasizes the development of Latin Christianity, the formation of national communities in France and England, and the multi-faceted crisis of the 14th and 15th centuries.

HIST 115. The Renaissance and Reformation in Europe. 3 Units
Term Typically Offered: Fall, Spring

Survey of the development of Italian City States and their relation to Northern Europe; an examination of the relationship among commerce, capitalism and secular culture; a survey of Reformation and Counter-Reformation.

HIST 116. Europe, 1648-1815, The Age of Revolution. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Political and social survey of Europe with emphasis on (a) the scientific revolution and the Enlightenment, (b) absolute monarchs and enlightened despots, (c) the American and French Revolutions, (d) Napoleon I, and (e) art, society and popular culture.

HIST 117. Europe, 1815-1914. 3 Units
Term Typically Offered: Fall, Spring

Consideration of historical trends in 19th Century Europe. Emphasis on Germany and France. Attention is devoted to liberalism, conservatism and nationalism; the industrial revolution, national unification, nationalism, imperialism and the rise of socialism.

HIST 118A. World War I: Causes, Conduct, Consequences. 3 Units
Term Typically Offered: Fall, Spring

Political and social development of Europe from the beginning of the 20th Century to the accession of Hitler to power in 1933 with emphasis on relations among the Great Powers.

HIST 118B. World War II: Causes, Conduct, Consequences. 3 Units
Term Typically Offered: Fall, Spring

Critical examination of political, military, social, and cultural transformations in the era of the Second World War. Particular emphasis will be placed on diplomatic relations between the Great Powers, military conduct during the war, the experience of fascism, the causes and ramifications of the Holocaust, and the war's cultural and political legacy in Europe.

HIST 119. Europe Since 1945. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of major developments in Europe since the end of World War II. Topics include: the basic intellectual structures of the 20th century; the origins of the Cold War; the rise of the EEC; decolonization; the political and social upheaval of the l960's; détente; and the new preoccupation with nationalism and ethnic identity.

HIST 120A. History of Medicine, Ancient and Medieval. 3 Units
Term Typically Offered: Fall only

History of ancient-medieval medicine, the role of medicine in society, and attitudes toward illness and the body. Also covers alternative remedies such as magic and folk medicine. Primary focus on Greco-Roman medicine but also Sumerian, Egyptian, Christian and Islamic traditions.

HIST 121. Democracy and Human Rights in the Era of the French Revolution and Napoleon. 3 Units
Term Typically Offered: Fall, Spring

Explores the crucial social, cultural, intellectual, and political legacies of the Revolutionary and Napoleonic years (1789-1815) in France and across the globe. In particular, examines ideas and policies regarding religious toleration, democratic participation, slavery, gender, and nationalism.

HIST 122A. History of Women in Western Civilization, Prehistory-Middle Ages. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Emphasis on the lives and experiences of women as they relate to the fundamental characteristics of Western culture. Topics include women and religion, production and economic institutions, reproduction and family structures, power and politics, women's self-definition.

HIST 122B. History of Women in Western Civilization, Renaissance-Present. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Emphasis on the lives and experiences of women as they relate to fundamental characteristics of Western culture. Topics include women and industrialization, the modern state, the development of feminism, feminism and socialism, revolutionary and reactionary movements.

HIST 123. The Crusades. 3 Units
Term Typically Offered: Fall only

The Crusading movement from the eleventh through the thirteenth centuries. Explores the eight 'official' Crusades, and explores the concept of 'crusading' as Christian Holy War. Extensively covers the intersection of Byzantine, Islamic, Catholic, and Jewish cultures in the Middle Ages, and incorporates religious, social, military, and political, history.

HIST 124A. Warfare: Alexander to Napoleon. 3 Units
Term Typically Offered: Fall, Spring

Conduct of war from 336 B.C. to 1815. Social and political consequences; development of weaponry, strategy and tactics; Great Captains.

HIST 124B. European Warfare from the French Revolution to the Present. 3 Units
Term Typically Offered: Fall, Spring

Study of the inception, conduct and impact of European warfare from the French Revolution to the present. Students will be required to complete one or more projects designed to increase their understanding of modern warfare and its implications.

HIST 125. Modern Germany, 1806-Present. 3 Units
Term Typically Offered: Fall, Spring

History of Germany from the fall of the Holy Roman Empire to the present. Topics will include the rise of German nationalism, the formation of the German nation-state, the Nazi era and the Holocaust, and postwar Germany's development.

HIST 126. Evolution of Christianity to the Reformation. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Christianity from Jesus to Martin Luther. Emphasis on the evolution of Christian thought and institutions and the relationship of the Church to popular culture and secular powers.
Cross Listed: HRS 126; only one may be counted for credit.

HIST 127. Evolution of Christianity Since the Reformation. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

European Christianity from the Reformation to the present. Emphasis on the evolution of Christian thought, the co-existence of the Catholic and Protestant traditions, and the relationship of religious and secular values in European society.
Cross Listed: HRS 127; only one may be counted for credit.

HIST 128A. Medieval England To 1485. 3 Units
Term Typically Offered: Fall only

Examines the developments of English history from the Celtic Bronze Age to the fifteenth century. Issues of race and ethnicity, gender, social classes, political ideology, religious toleration, economic developments, and artistic achievements will be examined in particular detail.

HIST 128B. Tudor and Stuart England, 1485-1714. 3 Units
Term Typically Offered: Fall, Spring

History of England from the consolidation of royal power under Henry VII to the Hanoverian succession. Emphasis on the Tudor Renaissance and Reformation, the growth of England's international status under Elizabethan, Stuart rule, the Civil Wars, the dictatorship of Oliver Cromwell and the Restoration.

HIST 128C. British History, 1714-Present. 3 Units
Term Typically Offered: Fall, Spring

History of the British Isles from Hanoverians to the Present. Emphasis upon the rise of Parliament, industrialization, reform, rise of labor, the two World Wars, the Welfare State and contemporary Britain.

HIST 129A. Medieval Russia. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Emergence of modern Russia from the principalities of medieval Russia. Emphasis on Eastern European, Byzantine, and Eurasian contributions to Russian history.

HIST 129B. Imperial Russia. 3 Units
Term Typically Offered: Fall, Spring

Emergence and collapse of imperial Russia as a continental world power from 1600 to 1917. Emphasis on the role of monarchy, a changing society and economy, and the growth of the educated public in the development of a distinctive imperial Russian culture and its final destruction in revolution.

HIST 129C. Twentieth Century Russia. 3 Units
Term Typically Offered: Fall, Spring

Revolutionary origins of the Soviet Union, its rise as a global superpower, and its sudden dissolution. Emphasis on the major political, economic, social, and cultural trends that defined Soviet civilization, as well as the Soviet legacy for contemporary Russia and the world.

HIST 130. The Fall Of Communism. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Causes and consequences of the dramatic transformations in the political, economic, and cultural life of the Soviet Union, eastern Europe, and China after 1970. Topics include 'real-existing' socialism, Gorbachev and the revolutions of 1989, the emergence of China, impact on the non-socialist world, and implications for the future.

HIST 131. History of Sexuality in Comparative Perspective. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Survey of the comparative history of sexuality in the pre-modern and modern world (including the United States and Europe). Topics include the intersections of gender, sexuality, race, and social status across societies and time periods; religion and sexual norms; sex, sexuality and the rise of the nation-state; sex and imperialism; and sexuality and the law.

HIST 132. Topics In World History. 3 Units
Prerequisite(s): HIST 50.
Term Typically Offered: Fall, Spring

Designed for students who want to acquire multiple subject teaching credentials. Examines world history from a topical perspective, focusing on large themes and trends. Builds upon the detailed history taught in the HIST 50.

HIST 133. Twentieth-Century World History. 3 Units
Prerequisite(s): HIST 51 or HIST 51H
Term Typically Offered: Spring only

A survey of the major international themes and historical processes that shaped the twentieth century. Designed for History majors and present or prospective teachers of history.

HIST 134. The Rise and Fall of European Colonial Empires. 3 Units
Term Typically Offered: Fall, Spring

This course covers the origins of European colonialism in the Iberian expansion, the development of English and Dutch empires, the role of spices, slaves, sugar, and opium in the making of the modern global economy, the ' New Imperialism' of the 19th Century, the anti-colonialist and nationalist movements, and the final collapse of the empires after World War II.

HIST 135A. History Of Mexico To 1910. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Emphasizes Meso-American culture, the creation and flourishing of Spanish colonial culture, the independence movements, and the trials and tribulations of nationhood in the 19th century.

HIST 135B. Revolutionary and Modern Mexico. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Political, social, economic and cultural history of the Mexican upheaval, from 1910 to 1920, and the development of Modern Mexico since 1920.

HIST 136. Spanish Civil War. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

In-depth examination of the Spanish Civil War (1936-1939) focusing on its social, political, and cultural contexts. The course also examines the war's historical origins, immediate aftermath and implications for understanding modern Spain.
Cross listed: SPAN 129.

HIST 137A. Latin American Revolutions in the Twentieth Century. ✎ **3 Units**
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only

Comparative analysis of twentieth-century Latin American revolutions. Considers economic and political causes, revolutionary aims, and historical outcomes.

HIST 137B. Latin American History in Film. ✎ **3 Units**
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Spring only

An analysis of films representing Latin American history from conquest through present.

HIST 138A. Colonial Latin America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Survey course in the history of Latin America from the late fifteenth century to the early nineteenth century.

HIST 138B. Modern and Contemporary Latin America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Survey course in the history of Latin America from the early nineteenth centry to the present.

HIST 140. Modern East Asian Cinema. ✎ **3 Units**
General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Survey of the development of cinema in Asia, focusing primarily on cinematic masterpieces from China, Hong Kong, and Japan. Focuses on directors, actors, and studios that left a lasting mark on cinema history. Also focuses on how Asian aesthetic sense differs from the Hollywood norm. Prerequisite:GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X. Cross-listed: ASIA 140; only one may count for credit.

HIST 141. History of Africa Since 1800. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

European control in Africa, African primary resistance and proto-nationalist movements, decolonization and post-independence, nation-building to present.

HIST 142. History of Women in Africa. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examines the role of African women in politics, religion, the economy, the family and the arts from ancient times to the present. Considers the varying status of women in different regions of the continent. Also looks at the impact of kinship structures on women, development issues, and African responses to feminist discourse.

HIST 143A. Middle Eastern History to 1800. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Surveys the history of the Muslim Middle East from the age of the Prophet Mohammed to the late Ottoman Empire. Topics include: the Islamic religious revolution; the splintering of the Islamic community into Sunnis, Shias and other Islamic minorities; the impact of Islam upon the European West; the Crusades; and Western influence at the end of the 18th century.

HIST 143B. The Modern Middle East. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Surveys Middle Eastern history from 1800 to the present. Topics include: the late Ottoman Empire; World War I and state creation; western imperialism; Arab nationalism; Zionism; state building; modern economies and traditional societies; Islam and the modern state; and the Arab-Israeli conflict.

HIST 143C. Ottoman State and Society. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Overview of the history of the Ottoman Empire from its rise in the 13th century to its demise in the early 20th century. Topics include Ottoman state structure, military, economy, legal system, society, culture, and legacy.

HIST 144. Indonesia, 1965: Context, Causes, and Consequences of Cold War Mass Murder. 3 Units
Term Typically Offered: Fall, Spring

Examines the domestic and international political, social, and economic context of the overthrow of Indonesian President Sukarno, the mass murder of perhaps a million individuals associated with the Indonesian Communist Party, and subsequent US-backed military dictatorship of General Suharto.

HIST 145. South Asian History & Civilization. 3 Units
Term Typically Offered: Fall, Spring

South Asian history from the Indus Valley Civilization to the 1947 partition of British India to the nation-states of India and Pakistan. Topics include: development of Hinduism, Buddhism, Jainism, and Sikhism; rise and fall of the Mauryan, Mughal, and British empires; Indian philosophy, art, literature; South Asian expressions of Islam, Judaism, and Christianity; elite and popular religious syncretism; gender and sexuality in South Asia; Portuguese and British colonialism; South Asian nationalism; and the life and thought of Mahatma Gandhi.

HIST 146A. Cultural History of Japan to 1800. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

History of traditional Japan stressing developments in literature, drama, art, religion and philosophy in the context of political, social and economic development. Movies, slides and readings in Japanese literature will be used.

HIST 146B. Modern Japan, 1800-present. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Roots of modernization in late feudal Japan; Western impact; political, economic and social modernization; the growth and decline of democratic institutions; militarism and World War II; U.S. occupation; and Japan's impressive 'success story' 1950-present.

HIST 146C. The History of Manga. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A survey of the history of manga (Japanese graphic novels) that will trace the historical antecedents of manga from ancient Japan to today. The course will focus on major artists, genres, and works of manga produced in Japan and translated into English.

HIST 147. History of Buddhism. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examines in cultural and historical perspective, drawing from ancient and contemporary sources, the key practices and ideas of Buddhist traditions in India, China, Southeast Asia, Tibet, Japan and other surrounding regions; as well as the most recent spread of these practices and ideas to Europe, North America, and Australia.
Cross listed: HRS 147

HIST 148A. China: Antiquity to 1600 AD. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Historical development of China from the Neolithic period to the end of the 16th Century. In addition to texts and records, other sources such as archaeology, literature, and art will be examined to gain understanding of and appreciation for the longevity of China as a culture and a polity. Traditionally neglected groups such as women and the lower classes will be emphasized.

HIST 148B. China, 1600 to Present. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

The transformation of China since the 17th Century. Examines the internal tensions of population growth and social unrest, as well as external pressures of encroaching imperialism and modern values of freedom and democracy. Revolution, communism, modernization, and nationalism will be addressed.

HIST 149. The Making of Modern Southeast Asia. 3 Units
Term Typically Offered: Fall, Spring

Examines the historical formation of Southeast Asia, how European colonization integrated Southeast Asia into the global economic order, and how the region became a critical strategic zone in the Second World War and the Cold War. Traces the centuries long formation of nations of Southeast Asia, the second half will focus on political and economics developments of the 20th Century.

HIST 150. Colonial America. 3 Units
Term Typically Offered: Fall, Spring

Development of the British mainland colonies from exploration, contact, and settlement to the age of the American Revolution. Topics include: background to colonization; mercantilism, the emergence of a multicultural society; regional variation; Native Americans, slavery, women and family, community formation, religion, education, Enlightenment in America, European rivalries, imperialism.

HIST 151. The Age of the American Revolution. 3 Units
Term Typically Offered: Fall, Spring

Causes and consequences of the American Revolution. Topics include: Whig ideology, popular politics, loyalism, economic concerns, the western frontier, Native Americans, African-Americans, and women during the era, the course of the war with Great Britain, the Confederation and Constitution, social consequences of the Revolution.

HIST 152. Young Republic, 1790-1840. 3 Units
Term Typically Offered: Fall, Spring

Beginnings of government under the Constitution; the U.S. in a warring world; Thomas Jefferson and Andrew Jackson; market economy, canals and factories; nationalism, the debate over slavery, and emerging sectionalism.

HIST 153. Civil War and Reconstruction, 1840-1890. 3 Units
Term Typically Offered: Fall, Spring

Political history of the Civil War and Reconstruction. Topics include sectionalism; slavery, westward expansion, secession, the conduct of the war, industrialization, and the changing status of African Americans.

HIST 154. 20th Century United States, 1890-1940. 3 Units
Term Typically Offered: Fall, Spring

U.S. response to urban, industrial growth from the origin of the Spanish-American War to Franklin D. Roosevelt. Progressivism, Imperialism, World War I, the decade of the 1920's; Depression and the New Deal.

HIST 155. 20th Century United States, 1941-Present. 3 Units
Term Typically Offered: Fall, Spring

Social, economic, and cultural challenges and achievements in U.S. life as they are reflected in political history. Emphasis upon domestic affairs, supplemented by foreign concerns that have presented fundamental choices to the American people.

HIST 156. The Sixties: Years of Hope, Days of Rage. 3 Units
Prerequisite(s): HIST17B.
Term Typically Offered: Fall, Spring

Examines the key events and ideas that helped shape American politics and culture in the 1960s. Special emphasis placed on political power, race and racism, the role of dissent and social activism, and nonviolent civil disobedience. Covers the Vietnam War, the African-American Civil Rights movement, the Chicano movement, the women's movement, the counterculture, as well as social conflict and its resolution.

HIST 157. History of International Relations in the 20th Century. 3 Units
Term Typically Offered: Fall, Spring

Survey of the history of international relations (political, military, economic, cultural, and environmental) in the 20th century. Covers Europe, Asia, the Middle East, Africa, and the Americas, with emphasis on global events and issues from non-U.S. perspectives.

HIST 158. Military History of the United States. 3 Units
Term Typically Offered: Fall, Spring

Survey from the colonial militia to the present, including all military branches, with emphasis on the U.S. Army. In addition to doctrine, operations, weapons and warfare, focuses on the interrelationship of the military with the economic, social and political concerns of the American nation.

HIST 159. History of US Foreign Relations. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D
Term Typically Offered: Fall, Spring

Diplomatic, military, economic, and cultural relations between the U.S. and the world from 1789 to the present, with emphasis on the 20th Century; focus on transformation of U.S. into a global power.
Note: Fulfills state graduation requirement for U.S. History.

HIST 160. The United States in Vietnam, 1940-1975. 3 Units
Term Typically Offered: Fall, Spring

Case study of the making of foreign policy through seven presidencies. Identifies the causes of an American war in Vietnam and examines that involvement as a representative example of post-World War II U.S. globalism. Consideration of the domestic impact of the War and a critical examination of the 'lessons' learned from it.

HIST 161. The American Vision. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D
Term Typically Offered: Fall, Spring

Media survey of American life from the beginnings to the present. Integrates slides of American art, architecture, popular culture, and technology with history, literature and contemporary music.
Note: Fulfills state graduation requirement for U.S. History.

HIST 162. Social History of the United States. 3 Units
General Education Area/Graduation Requirement: GE AREA D, United States History
Term Typically Offered: Fall, Spring

Survey of topics in American social history from the colonial period to the middle of the Twentieth Century. Subjects may include reform movements, immigration, racial problems, religion, medicine, and the role of women.
Note: Fulfills state graduation requirement for U.S. History.

HIST 163. The City in US History. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Role of the city in the American experience, with emphasis on the rapid urbanization of the 19th and 20th centuries. Attention given to the attractions and problems of urban life and to proposals for reforming the cities.

HIST 164. History of American Capitalism. 3 Units
Term Typically Offered: Fall, Spring

Survey of U.S. business from the colonial era to the present that places U.S. business in a global context. Examines how individual entrepreneurs and regulators have contributed to the development of the modern American political economy.
Cross Listed: GOVT 164; only one may be counted for credit.

HIST 165. American Environmental History. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Traces the changing relationship between human society and the natural environment from pre-colonial era to the present. Focuses on the interplay between industrialization and nature, and examines past and present environmental movements.
Cross Listed: ENVS 165; only one may be counted for credit.

HIST 166. Popular Culture. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Focuses on entertainment and everyday life in America from the beginnings to the present. Enhances the students' understanding of how popular culture reflects and shapes the larger issues and institutions of American life.

HIST 167. History of American Women. 3 Units
General Education Area/Graduation Requirement: United States History, GE AREA D
Term Typically Offered: Fall, Spring

Study of the role of women throughout American history with emphasis on the suffrage movement, abolitionism, and birth control. Considers the emancipation of women and their role in contemporary society.
Note: Fulfills state graduation requirement for U.S. History.

HIST 168. Images Of America. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Interdisciplinary survey of major events, trends and figures in American history viewed through American literature, visual arts, music and architecture. The arts in America are studied in relation to major ideas, significant personalities and important historical events from the period of the early republic to the present.
Cross Listed: HRS 168; only one may be counted for credit.

HIST 169. Hollywood and America. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Chronological survey of American films and their cultural significance from the 1890's to the present. Focus on films produced in Hollywood, the contexts in which they were created, and the impact of Hollywood as a mythical place in the development of American culture.
Cross-listed: HRS 169; only one may be counted for credit.

HIST 170A. Sports in American History. 3 Units
Explores the significance of sports in American history from the colonial era to the present. Examines how the social, cultural, and economic role of sports in the American experience intersects with race, class, gender, immigration, citizenship, and nationality. Considers the wide-ranging articulations of popular sports in the public imaginary throughout the 20th century.

HIST 171A. American Indian History to 1840. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

History of North American native people from before the European invasion to 1840. Particular attention given to the formation of indigenous societies before and during European colonization of the Americas and to the experience of Indian cultures, societies, and nations in the early U.S.

HIST 171B. American Indian History since 1840. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

History of North American native people from 1840 to the present. Particular attention given to Indian nations' engagement with the Indian policies of the United States and the persistence and adaptation of American Indian cultures, societies, and identities in the modern U.S.

HIST 172. LGBTQ Histories. 3 Units
Term Typically Offered: Fall only

This course provides an introduction to the study of lesbian, gay, bisexual, transgender, and queer (LGBTQ) histories. Uses an interdisciplinary and comparative approach to explore the historical emergence and development of LGBTQ identities, communities, and political movements. Includes theoretical analysis of the history of gender and sexuality and the practice of historical analysis.
Cross Listed: WOMS 172; only one may be taken for credit.

HIST 173. The History of the Civil Rights Movement: From Reconstruction to Deconstruction, 1865-Present. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring

Examines the campaign for civil rights waged by African Americans from the Reconstruction era through the present. Treats the movement's roots, goals, main organizations, and its relationship with African American culture in this period. Includes a comparison with the experiences of Mexican Americans and Native Americans.

HIST 174A. History of Disability in the United States. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Study of mental and physical disability in United States history from colonial times to the present. Emphasizes disability as a social and cultural construction and examines how disability intersects with historical constructions of race, class, gender, and sexuality. Includes lived experiences of disabled Americans, changing cultural perceptions of disabled Americans, and disability activism and legislative action, including the passage of the Americans with Disabilities Act and its aftermath.

HIST 175A. Sex, Population, and Birth Control in America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only – odd years

Explores efforts to control reproduction in America in the nineteenth and twentieth centuries. It examines the medical and legal institutions that shaped public policy and the general public's response to efforts to regulate citizens' reproduction, sexuality, and healthcare. It also investigates how race, ethnicity, class, and gender determined the types of reproductive choices available to Americans.

HIST 175B. Health, Death and Disease in America. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Spring only – even years

An examination of American medicine from the colonial era through the present from a multi-cultural perspective, including how measures of health determined the monetary value of enslaved Americans in the colonial and antebellum eras and how Americans ability to access healthcare has been based upon their race, class, gender, and (dis)ability. Also addresses challenges to established medical practices launched by the womens health movement, civil rights activists, the Black Panther Party, and the right-to-die movement.

HIST 176. African Cultural Heritage in the Americas. 3 Units
Term Typically Offered: Fall, Spring

Focuses on the legacies of African cultural and social systems among the diasporic Africans in the Americas in the 19th and 20th centuries. Primary focus is on the U.S., but also examines African retentions in Jamaica, Haiti, Cuba, and South America.
Cross Listed: ETHN 176; only one may be counted for credit.

HIST 177. The African-American Experience, 1603-Present. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE), United States History
Term Typically Offered: Fall, Spring

Gives students an understanding of African-American history from the colonial period to the present. Focuses on African-Americans as active agents in shaping U.S. History, and analyzes the issues, ideas and strategies they have developed and used in their struggle for justice and equality.
Note: Fulfills the state graduation requirements for U.S. History.

HIST 178. Mexican-American History. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Explores the contours of Mexican American history from the Spanish colonial experience through the present. Examines the roots of the Chicano community in the U.S. conquest of the Southwest, the twentieth-century immigration experience, the development of diverse Chicano communities after 1900, and the struggles for full civil rights in American society. Compared with the experiences of African Americans and Native Americans.

HIST 179. American Immigration History. 3 Units
Term Typically Offered: Fall, Spring

Study of immigration in American life. Particular attention given to the shifting causes and patterns of immigration, similarities and differences among the experiences of immigrants in the U.S., nativism, the development of immigration restrictions, and the effects of immigration on the life of the nation over time.

HIST 180. American Legal History. 3 Units
Term Typically Offered: Fall only

Examines the interaction of law, society, and politics in America from the colonial period to the present, with special emphasis on law as an arena of social and cultural conflict. Major topics include the development of the common law in early America; the law of slavery and its impact on constitutional development; the role of the law in defining controversies over race and gender; legal thought and education; and the role of the Supreme Court in 20th Century America.

HIST 181. Anarchists and Revolutionaries: Transnational Radicalism in America. 3 Units
Term Typically Offered: Fall, Spring

This course explores the intersection of anti-authoritarian ideologies, transnational migration and anarchist movements in the United States. It will focus on the time period of 1871 through 1940 and the ways in which concepts of 'liberty' informed radical movements. Topics may include: European and Caribbean origins of anti-authoritarianism, immigrant enclaves, radical labor, anarchism, anarchist periodicals, and selected liberation movements.

HIST 182. American West. 3 Units
Term Typically Offered: Fall, Spring

Study of the Spanish and Indian frontiers, the advance of the Anglo-American settlers, and the emergence of the modern West.

HIST 183A. California History, 1542-1860. 3 Units
Term Typically Offered: Fall, Spring

Study of the people, institutions and cultural influence of Spanish-Mexican California and the changes brought by U.S. conquest and the Gold Rush.

HIST 183B. California History, 1860-1970. 3 Units
Term Typically Offered: Fall, Spring

Study of the social, political and economic evolution of California from construction of the first continental railroad link to the present, focusing on issues which are still significant in the state.

HIST 184. California Architecture and Urban History. 3 Units
Term Typically Offered: Fall, Spring

A survey of the history of California architecture and its impact on the urban environment from Native Americans to the 20th Century. Particular attention will be given to architecture as a statement of social, economic, and political empowerment.
Cross Listed: ART 118B; only one may be counted for credit.

HIST 185. California Indian History. 3 Units
Term Typically Offered: Fall, Spring

Historical study of California's native people and Indian-white relations from the Spanish colonial era to the present.

HIST 186A. The California Gold Rush. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only

Study of the social, cultural, economic, political, and environmental influences of the California Gold Rush in the contexts of state, national, and world history.

HIST 186B. History of California Water. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
Term Typically Offered: Fall, Spring

Study of the history of water in California, including its social, cultural, legal, economic, political, land use, and environmental significance.

HIST 186C. Sacramento History. 3 Units
Term Typically Offered: Fall only

Surveys the history of Sacramento and the lower Sacramento Valley through the nineteenth, twentieth, and early twenty-first centuries. Using local history methodologies, explores landscape change and patterns of community development in Sacramento and situates the city and region within national and global historical contexts.

HIST 187. Topics in United States History 1600-1900. 3 Units
Prerequisite(s): HIST 17A.
Term Typically Offered: Fall, Spring

Designed for students who want to acquire multiple subject teaching credentials. Examines United Stated history between 1600 and 1900 from a topical perspective, focusing on large themes and trends. Builds upon HIST 17A.

HIST 188. American Labor History. 3 Units
Term Typically Offered: Fall, Spring

Survey of the history of working people in the United States from the colonial period to the present. Topics include labor systems from slavery to wage work, strategies of labor organizations, race and labor, radicalism and reform, immigration and labor, labor and leisure, women and work, and globalization.

HIST 189. California Dreamin': A Cultural History of California since 1840. 3 Units
Term Typically Offered: Fall, Spring

Study of the cultural history of California as reflected in the humanities - art, music, literature, and film - from early American settlement and conquest to the present.

HIST 190. Clio: Editing and Publishing in History. 3 Units
Prerequisite(s): HIST 100
Term Typically Offered: Spring only

Seminar devoted to learning the editing and publishing side of the history profession. Students will produce the student history journal Clio.

HIST 191. Seminar in Historical Interpretation and Analysis. 3 Units
Prerequisite(s): HIST 100 and (GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W).
Term Typically Offered: Fall, Spring

Reading seminar in philosophy of history, historical methodology, and historical reasoning. Special focus on the instructor's field of expertise. Designed for History majors and present and prospective teachers of history.
Note: Not open to lower division students.

HIST 192A. Seminar in Recent Interpretations of United States History. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of United States history. Designed especially for History majors and present and prospective teachers of history.
Note: Not open to lower division students.

HIST 192B. Seminar in Recent Interpretations of European History. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of European history. Designed especially for History majors and present and prospective teachers of history.
Note: Not open to lower division students.

HIST 192C. Seminar in Recent Interpretations of Asian History. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of Asian history. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 192E. Seminar in Recent Interpretations of African History. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of African history. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 192F. Seminar in Recent Interpretations of Latin American History. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of Latin American history. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 192Z. Seminar in Recent Interpretations of a Special Topic. 3 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Reading seminar in recent scholarship and current trends in the interpretation of a special topic. Designed especially for History majors and present and prospective history teachers.
Note: Not open to lower division students.

HIST 193. Public History. 3 Units
Prerequisite(s): HIST 100
Term Typically Offered: Fall, Spring

Course engages students in the work of historians in public practice. Covers theory and methods of public history through hands-on experience, field trips, guest speakers, and directed readings and discussion. Topics include: Archives, Museums, Historic Preservation, Cultural Resource Management, Heritage Tourism, Digital History, World Heritage, and Historical Memory.
Note: Field trip. Students will be required to attend field trips to public history institutions both on and off campus.

Field trip(s) may be required.

HIST 194. Oral History: Theory and Practice. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M/W.
Term Typically Offered: Fall, Spring

Introduces students to the theory and practice of oral history. Examines ethical and legal issues as well as problems of accuracy in memory. Students will also learn how to conduct, transcribe, and edit oral histories and develop oral history projects.

HIST 195A. History Internship. 3 Units
Prerequisite(s): Permission of the faculty internship director.
Term Typically Offered: Fall, Spring, Summer

Supervised work and project experience with history-related agencies and organizations, developing entry level skills. May not be repeated for credit.
Credit/No Credit

HIST 195B. Advanced History Internship. 3 Units
Prerequisite(s): HIST 195A and permission of the faculty internship director.
Term Typically Offered: Fall, Spring, Summer

Supervised work and project experience with history-related agencies and organizations, developing more advanced entry level skills and practice in communicating history to public audiences. May not be repeated for credit.
Credit/No Credit

HIST 195T. History Pre-credential Internship. 3 Units
Prerequisite(s): HIST 17A, HIST 17B, HIST 50, HIST 51, and HIST 100; permission of instructor.
Term Typically Offered: Fall, Spring

Supervised classroom observations and historical research to assist with curriculum development in secondary grade level history classrooms, with accredited schools, teaching related agencies and organizations. Students improve historical research skills, content mastery, and develop knowledge of using primary sources in history teaching. Students are exposed to secondary grade level history classrooms and observe instructional methods.
Note: Limited to upper division majors in the pre-credential program and students who have an interest in teaching history at the secondary level.

Credit/No Credit

HIST 196M. Japanese History in Japan. 3 Units
Term Typically Offered: Winter

A three-week course, with a two week Study-Abroad portion to Matsuyama Japan. Students will learn about Japanese history in both a classroom setting and through field trips to local sites in Ehime and Hiroshima prefectures. Field trip.
Field trip(s) may be required.

HIST 197A. Senior Research Seminar: United States History. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Research seminar in historical writing in which students will complete a research paper in United States History based on primary sources. Subject will vary according to instructor. Recommended for the second semester of the senior year.
Note: Not open to lower division students.

HIST 197B. Senior Research Seminar: World History. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Research seminar in historical writing in which students will complete a research paper in world history based on primary sources. Subject will vary according to instructor. Recommended for the second semester of the senior year.
Note: Not open to lower division students.

HIST 197C. Senior Research Seminar: Public History. 3 Units
Prerequisite(s): GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Introduction to bibliographic and research skills in secondary and primary sources, and the development of expertise in writing historical reports. Particular attention to regional research libraries, manuscript repositories and archival facilities.
Note: Not open to lower division students.

HIST 198. Summative Assessment for Teachers. 3 Units
Corequisite(s): HIST 100.
Term Typically Offered: Fall, Spring

Capstone seminar that serves as a bridge between academic preparation and entry into a professional teacher credential program. Students will examine social science-history in the State curriculum framework, reflect on subject matter preparation, focus on middle and high school social science teaching and learning, investigate and evaluate resources pertinent to instruction, and explore current issues in education.

HIST 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work.
Credit/No Credit

HIST 200. History and Theory. 3 Units
Prerequisite(s): Classified standing in History or instructor permission.
Term Typically Offered: Fall, Spring

Study of the theoretical schools and debates that have most influenced historical research and writing in the modern era. Introduces students to both important theoretical texts and their applied use. It is designed to provide an intellectual foundation for subsequent graduate-level history seminars.
Note: Graduate Writing Intensive (GWI) course.

HIST 201. Interpreting World History. 3 Units
Prerequisite(s): Classified graduate status in History or instructor permission.
Term Typically Offered: Fall, Spring

Study of historical interpretations of major issues and problems in world history. Helps students to define world history as a field and to consider different approaches to teaching and/or researching world history topics.

HIST 202. Interpreting U.S. History. 3 Units
Prerequisite(s): Classified graduate status in History or instructor permission.
Term Typically Offered: Fall, Spring

Study of historical interpretations of major issues and problems in US history. Helps students to define US history as a field and to consider different approaches to teaching and/or researching US history topics.

HIST 203. Public History Principles and Techniques. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Provides an introduction to public history by surveying the major topics in the field through readings, discussion, and guest lectures. Students will learn about the history of public history, employment opportunities for public historians, and public historical issues.
Note: Graduate Writing Intensive (GWI) course.

HIST 209A. Research and Writing in US History. 3 Units
Prerequisite(s): Classified standing in History or instructor permission.
Term Typically Offered: Fall, Spring

Research seminar in fields of special interest. Topics will be announced each semester.

HIST 209B. Research and Writing in the History of the American West. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Research seminar in fields of special interest in the history of the American West. Topics will be announced each semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 209C. Research and Writing in World History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Research seminar in fields of special interest in the history of regions outside the U.S. Topics will be announced each semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 280A. Reading Seminar in African or Asian History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature on a topic in African or Asian history. The area or topic to be studied will change from term to term.
Note: May be repeated for credit provided the period or the topic is different.

HIST 280B. Reading Seminar in Ancient or Medieval European History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature on a topic in ancient or medieval European history. The area or topic to be studied will change from term to term.
Note: May be repeated for credit provided the period or the topic is different.

HIST 280C. Reading Seminar in Modern European History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature on a topic in early modern or modern European history. The area or topic to be studied will change from term to term.
Note: May be repeated for credit provided the period or the topic is different.

HIST 280Z. Reading Seminar: Topics in World History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature in world history. The area of topic to be studied will change from term to term.
Note: May be repeated for credit provided the period or the topic is different.

HIST 281A. Reading Seminar in Colonial or Early US History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature of a particular period or topic in colonial North American or early U.S. history; the era or topic to be studied will vary from semester to semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 281B. Reading Seminar in Nineteenth Century US History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature of a particular period or topic in nineteenth century U.S. history; the era or topic to be studied will vary from semester to semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 281C. Reading Seminar in Modern US History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of the significant historical literature of a particular period or topic in U.S. history after 1900; the era or topic to be studied will vary from semester to semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 281Z. Reading Seminar: Topics in United States History. 3 Units
Prerequisite(s): Classified status in History or instructor permission.
Term Typically Offered: Fall, Spring

Extensive reading and analysis of significant historical literature of a particular period or topic in U.S. history; the era or topic to be studied will vary from semester to semester.
Note: May be repeated for credit provided the period or the topic is different.

HIST 282A. Research Seminar in Public History. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Professional training in the research and analysis of cartographic, archival, architectural, and artifactual sources related to public history. Attention to such research areas as cultural resources management, environmental impact, and historic sites and structures.

HIST 282B. Archives and Manuscripts. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Professional training in archives and manuscripts administration. Historical development of archives and manuscripts administration, theoretical concepts that underlie the discipline, integration of these concepts into practice, and various uses of archival resources.

HIST 282C. Oral History. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Professional training in oral history, with attention to the field's historical and theoretical development. Emphasis is placed on the methodology of oral history in the context of selected public history topics. Students learn to prepare for, conduct, transcribe, and edit oral history interviews.

HIST 282D. Museum Studies. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Intensive introduction to museum theory, practice, and management. Concentrates on providing an understanding of museums including museum exhibitions, collections, and acquisition policy. Students will have opportunities for practical museum experience and for meeting museum professionals.

HIST 282E. Historic Preservation. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Overview of the different aspects of historic preservation, including downtown revitalization, neighborhood organization, historic site management, preservation legislation, preservation education and historic architecture. The history of historic preservation in the U.S. Students will engage in on-site visits to historic sites.

HIST 282F. History and Memory. 3 Units
Prerequisite(s): Classified standing in Public History, History or instructor permission.
Term Typically Offered: Fall, Spring

Study of theoretical schools and debates regarding the formation, transformation, and transmission of collective memory. Draws upon theoretical literature on group memories from the social sciences and humanities, and it examines the importance of this literature for public and academic historians.

HIST 282Z. Special Topics in Public History. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Intensive seminar in a particular topic related to public history studies. Topics may include urban history, California history, demographics, visual history and public history.

HIST 290. Clio: Editing and Publishing in History. 3 Units
Term Typically Offered: Spring only

Seminar devoted to learning the editing and publishing side of the history profession. Students will produce the student history journal Clio.

HIST 295. History Internship. 3 Units
Prerequisite(s): Graduate status and permission of faculty internship director.
Term Typically Offered: Fall, Spring

Supervised work and project experience with history-related agencies and organizations, developing entry-level professional skills.
Note: May be repeated for credit

Credit/No Credit

HIST 297. Advanced Internship. 3 Units
Prerequisite(s): HIST 295 and permission of the faculty internship director.
Term Typically Offered: Fall, Spring

Professional work experience in a specialized field of public history, with training and supervision as part of the Capital Campus Graduate Program in Public History.
Credit/No Credit

HIST 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work; May be repeated for credit.

Credit/No Credit

HIST 400. The Teaching of History in College. 3 Units
Term Typically Offered: Fall, Spring

Seminar devoted to the teaching of college history. Students will intern in lower division courses.

HIST 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy.
Term Typically Offered: Fall, Spring

Credit given upon successful completion of one of the following: A.) Thesis. An original contribution to historical knowledge, which includes the statement of a problem, a review of pertinent literature, the collection and presentation of relevant material, a conclusion, and a formal bibliography, all presented with appropriate documentation; OR B.) Project. A significant undertaking appropriate to public history, based upon the relevant literature, research skills, and applied expertise in areas of professional concern. Available for MA, Public History Option students only; OR C.) Comprehensive Examination. Structured and supervised reading programs for MA candidates preparing for the History Comprehensive Examination.

Honors Program (HONR)

HONR 1. First Year Seminar: Education, Self-Examination, and Living. 3 Units

Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to comparative ideas of education and self-development. In writings from around the world, examines works on education, autobiographical accounts, and short stories to explore concepts of teaching, learning, human growth and development, and the role of the school and university in the realization of human potential.

HONR 2. Great Books and World Civilization I. 3 Units

Prerequisite(s): HONR 1 and instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Students read, discuss, and explore some of the most influential works of literature, philosophy, history, and religion from cultures around the world prior to the 15th century. Students will gain knowledge of different cultural traditions, explore ways to criticize and to learn from different genres of literature, examine their own concepts and ideas, and practice skills of critical thinking in dialogue with challenging works. Readings will be drawn from a broad array of sources, including Greek, Chinese, and Indian traditions, different religious faiths, and works of literature representing a variety of outlooks and views.

HONR 3. Great Books and World Civilization II. 3 Units

Prerequisite(s): HONR 2 and instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Students read, discuss, and explore some of the most influential works of literature, philosophy, history, and religion from cultures around the world from the 15th century to the present. Students will gain knowledge of different cultural traditions, explore ways to criticize and to learn from different genres of literature, examine their own concepts and ideas, and practice skills of critical thinking in dialogue with challenging works. Readings will be drawn from a broad array of sources, including Greek, Chinese, and Indian traditions, different religious faiths, and works of literature representing a variety of outlooks and views.

HONR 101. Science and the Public Good. 3 Units

General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

This course examines how scientists employ information derived through the scientific method and statistical analyses to form conclusions. The methodology of science is applied to public policy debates relating to climate change, the use of DNA, Creationist/evolutionist issues, water conservation, land use zoning, energy, mineral resources, and other topics.

HONR 102. The Public Good Through the Visual and Performing Arts. 3 Units

Prerequisite(s): Upper division status in Honors Program; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

This course explores the role of the visual and performing arts as a catalyzing and infinitely variable means of pursuing the public good. Students will engage with the artistic process as well as learn how works of art have successfully challenged ideological conventions and helped change social and political systems. Strategies of making art will be examined in the form of specific visual and performativity methodologies, the context of the artist, and the public perception of various art forms.

HONR 103. Civic Engagement, Service Learning: Pursuing the Public Good. 3 Units

Prerequisite(s): Must be admitted to Honors Program
Term Typically Offered: Fall, Spring

Students to be an active participant in his/her own learning process through a service learning experience and participation in a corresponding seminar. Students are offered a reciprocal opportunity to acquire knowledge and develop skills while providing service and assistance to the community. Students will have the opportunity to assess the circumstances of an organization and provide feedback on their situation. The student will evaluate and assess his/her service learning from three perspectives: the physical universe and its life forms, social issues and social science research, and the arts.
Note: An international experience can be substituted for a local service learning experience. See Honors Program Director for more information.

HONR 120. Honors One World Seminar. 3 Units

Prerequisite(s): Open to students in the Honors program and permission of the program director.
Seminar dedicated to exploring the One World theme for the university. Topic changes annually.

HONR 150. Leadership Seminar. 3 Units

Prerequisite(s): Open only to Honors students.
Term Typically Offered: Fall, Spring

Seminar dedicated to exploring the principles of effective leadership.

HONR 195. Community Fieldwork and Internship. 3 Units

Prerequisite(s): Open to students in the Honors Program with permission of the program director and advanced approval of project goal and objective.
Term Typically Offered: Fall, Spring

Supervised service-learning experience with a community partner. This experience focuses on application of the interdisciplinary approach of the General Education Honors Program while affording students direct, hands-on experiences.
Credit/No Credit

HONR 196. Honors Senior Thesis. 3 Units
Prerequisite(s): Open only to students enrolled in the GE Honors program with permission of the program director.
Term Typically Offered: Fall, Spring

Honors research seminar in which students will complete a research paper in the discipline of their choice based on original research. Recommended for the student's final semester of study.

HONR 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Open to students enrolled in the General Education Honors Program. Individual projects and directed reading for students who are competent to assume independent work. Requires approval of the Honors Program Director and Honors faculty member under whom the independent work is to be conducted.

How to Read Course Descriptions

The **bolded** first line begins with a capitalized abbreviation that designates the subject area followed by the course number and title. The unit value is also displayed. Icons, if displayed, designate courses which satisfy Writing Intensive # and Race & Ethnicity # requirements.

Prerequisite(s): Coursework to be completed and/or requirements required before taking the course.

Corequisite(s): Course(s) that must be taken in the same term.

General Education Area:

Indicates the graduation requirement area, if listed, which the course fulfills.

- American Institutions:
  - United States History
  - U.S. Constitution
  - California Government
- Race and Ethnicity
- Foreign Language
- Writing Intensive

Indicates the General Education (GE) area, if listed, which the course fulfills.

- A – Basic Subjects
  - A1 – Oral Communication
  - A2 – Written Communication
  - A3 – Critical Thinking
- B – Physical Universe and Its Life Forms
  - B1 – Physical Science
  - B2 – Life Forms
  - B3 – Lab
  - B4 – Mathematical Concepts and Quantitative Reasoning
  - B5 – Further Studies in Physical Science, Life Forms, and Quantitative Reasoning
- C – Arts and Humanities
  - C1 – Arts
  - C2 - Humanities
- D – The Individual and Society
- E – Understanding Personal Development

The **course description** outlines what topics are covered in the course. If included, **cross-listed** indicates the same course is offered in a different department/subject.

The **Note** indicates additional information regarding the course.

Credit/No Credit: Indicates if the course grading basis is not a letter grade.

Graded (CR/NC Available) indicates a course with a grading basis that is a letter grade where the student may choose a Credit/No Credit grading basis.

Human Resources/Organizational Behavior (HROB)

HROB 101. The Management of Contemporary Organizations. 3 Units
Term Typically Offered: Fall, Spring

Overview of managerial and organizational theory and practice, including a discussion of the contingencies that influence an organization's effectiveness and efficiency. Focus is on the decision making and problem-solving processes that affect managerial performance in planning, implementing, and controlling the work of contemporary organizations.

HROB 151. Management of Human Resources. 3 Units
Term Typically Offered: Fall, Spring

Seminar covering contemporary processes and practices pertaining to the organization and management of personnel including employee selection, development, motivation, evaluation and remuneration, and union relations. Emphasis on the management of human resources in task oriented organizations. Instructional method provides for case method, laboratory exercises, and small group discussion.

HROB 152. Management Skills Seminar. 3 Units
Prerequisite(s): HROB 101; HROB 151 recommended.
Term Typically Offered: Fall, Spring

Development of management awareness of the dynamics of organizational behavior. Emphasis on case discussions, small group action and role playing for the acquisition of knowledge and skills for effective managing and changing in an organization.

HROB 153. Employment Law. 3 Units
Term Typically Offered: Fall, Spring

Provides students with an overview of the employment laws that impact and influence the workplace including laws regarding employment discrimination, disability discrimination and accommodation, employment leaves of absence, workplace harassment, employment torts and contracts, wage/hour regulations, employee privacy, intellectual property in the employment setting, and other emerging issues in employment law and personnel management. The impact of law on the management of human resources will be the focus of this class.

HROB 154. Strategic Human Resources Management. 3 Units
Prerequisite(s): HROB 151, HROB 152, HROB 153.
Term Typically Offered: Fall, Spring

The objective of this capstone course is to identify contemporary strategies to improve individual and organizational performance. Utilizes a strategic human resource management perspective and incorporate Human Resource Management and Organizational Behavior theories for practical implementation in organizations. Links such concepts as compensation, performance management, law, conflict management, communication, diversity, ethics, and managerial skill building towards preparing for the future of managing individuals in organizations.

HROB 155. Conflict Management and Negotiation. 3 Units
Term Typically Offered: Fall, Spring

Analyzes conflict in organizations, and strategies and processes for effective settlement or resolution of that conflict. Emphasis on the practical aspects of institutional and extra-institutional processes outside the conventional legal system. These dispute resolution methods include negotiation, mediation, arbitration and fair hearing. Students participate in a variety of exercises including simulated negotiations. Through these exercises students explore the basic theoretical models of bargaining and test and improve individual negotiation skills. Class format includes lecture, class discussion, simulation/role-play, expert guests and video demonstrations.

HROB 156. Current Trends and Emerging Issues. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide an in-depth examination of current trends and emerging issues in human resources management and/or organizational behavior. Provides students the opportunity to better understand the latest people-related challenges organizations face. Instructional method provides for case method, group discussion, industry guest speakers, and classroom exercises.

HROB 157. Labor Relations. 3 Units
Term Typically Offered: Fall, Spring

Employer-employee relations in historical and contemporary contexts, with emphasis on the development of labor and management institutions and philosophies, public policies, collective bargaining, and contract administration in the private and public sectors.

HROB 158. Special Topics in Human Resource Management. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide an in-depth examination of a current human resource management topic(s), from both a theoretical and practitioner perspective. Possible topics include, but are not limited to, outsourcing and staffing trends, merit-based performance and compensation plans, technology-based recruiting and selection practices, and innovations in training and career development. Instructional method provides for case method, group discussion, industry guest speakers, and classroom exercises.

HROB 159. Special Topics in Organizational Behavior. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide an in-depth examination of a current organizational behavior topic(s), from both a theoretical and practitioner perspective. Topics include, but are not limited to, family-work relations, stress and burnout, workplace aggression, leadership and motivation, organizational politics and culture, attitudes and change, and organizational learning. Instructional method provides for case method, group discussion, industry guest speakers, and classroom exercises.

HROB 194. Cooperative Education Experiences in Human Resources Management. 6 - 12 Units
Prerequisite(s): HROB 151 and a minimum overall GPA of 2.5.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in human resources management. This supervised work experience allows the student to become familiar with the practice of human resources management in businesses or governmental agencies.
Note: Open to all upper division students subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

HROB 195. Internship in Human Resources Management. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies. Open to upper division students, subject to permission of the Management Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Note: Open to declared business administration majors only.

Credit/No Credit

HROB 199. Special Problems in Human Resources Management. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.
Credit/No Credit

Humanities and Religious Studies (HRS)

HRS 4. Exploring World Religions. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Comparative inquiry into the nature of global religions, including Hinduism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam. Experiential, social, and material aspects of religions will be considered as well as beliefs and practices.

HRS 10. Arts and Ideas of the West: Ancient to Medieval. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to the literature, art, architecture, philosophy and history of the ancient and medieval West, with emphasis on classical Greece and Rome and the European Middle Ages.

HRS 11. Arts and Ideas of the West: Renaissance to Modern. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to the literature, art, architecture, music, philosophy, and history of the West from the Renaissance to the present.

HRS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills.

HRS 60. Popular Culture: Thinking Critically About the World Around Us. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Focus on thinking critically and building arguments about popular culture in its various forms, including television, film, music, art, and literature. Enhances understanding of popular culture, including definitions of key analytical terms, sociocultural history, generic structures, and aesthetic appreciation.

HRS 70. Arts and Ideas of Asia: Ancient to Medieval. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Introduction to the cultural history of ancient and early medieval Asia incorporating examples of art, literature, philosophy, and religion, providing a survey of China, India, and several other distinct cultures of the areas surrounding them--especially Japan.

HRS 71. Arts and Ideas of Asia: Medieval to Modern. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Introduction to the cultural history of late medieval and modern Asia incorporating examples of art, literature, philosophy, and religion, providing a survey of China, India, and several other distinct cultures of the areas surrounding them--especially Japan.

HRS 80. Introduction to Film. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the aesthetics of cinema, including understanding of how lighting, editing, angles, shot length, and framing create meaning in film. Discussion of aesthetic movements such as German Expressionism, Nouvelle Vague, and auteurism.

HRS 105. Approaches to the Humanities. 3 Units
Prerequisite(s): HRS 10 and HRS 11 or instructor permission.
Term Typically Offered: Fall only

Advanced study of interdisciplinary methods applied to the arts, including literature, music and other modes of humanistic expression.

HRS 108. Approaches to Religious Studies. 3 Units
Term Typically Offered: Fall only

Exploration of the history and methodology of Religious Studies, including the analysis of several significant theories of the origin and function of religion. Methods and theories drawn from the disciplines of psychology, sociology, history, anthropology, philosophy and feminist studies.

HRS 113. The Culture of Classical Greece. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Examination of the Golden Age of Athens and the birth of Western humanism; studies in the classical ideals, tragedy, comedy, poetry, history, philosophy, art and architecture.

HRS 114. The Culture of Classical Rome. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Study of Roman culture and its influence. Emphasis on art, architecture, literature, history, philosophy and religion of Rome from the early Republic to the end of the Western Empire.

HRS 115. Material Culture of Ancient Rome. 3 Units
Term Typically Offered: Fall, Spring

A focused study of ancient Roman culture as understood through investigation of materials artifacts, especially as found in archaeological sites and museum exhibits. The majority of course time will be spent in Rome and in Pompeii and other locations near Bay of Naples. Visits to archaeological sites and museums will be supplemented by readings of relevant texts and by ongoing discussion.

HRS 117. Paganism in the Roman World. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Survey of ancient Roman paganism, the wide variety of religious beliefs, practices, and institutions found throughout the Roman world. Topics include Greek influences, traditional religion, state and ruler cults, healing cults, oracles, astrology, mystery religions, priests and priestesses, prayer, sacrifice, and religious philosophies.

HRS 119. Classical Mythology. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Study of Greek and Roman myths and hero tales and their place in the arts and literature of Western civilization. Also provides an introduction to the general nature and function of myth.

HRS 120. Reason and Revelation: The Origins of Western Culture. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Study of the conflicting cultures that have shaped the social, religious and ethical perspectives of Western Culture. Readings in the Bible, Plato, Greek drama, the New Testament, and church fathers.

HRS 121. Introduction to the Hebrew Bible/Old Testament. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Survey of the historical narratives and other literature of the Bible, analysis of archeological evidence and introduction to the basic problems of textual criticism. Topics of study will include the origins and development of early Judaism and its interaction with surrounding cultures.

HRS 122. Introduction to the New Testament. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Study of the New Testament literature in its historical and cultural setting. Topics covered include the literary relationships of the four Gospels, the historical Jesus, the evolution of early Christianity, and the diverse theologies represented in the letters of Paul and other canonical and non-canonical writings.

HRS 126. History of Christianity to the Reformation. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Christianity from Jesus to Martin Luther. Emphasis on the evolution of Christian thought and institutions and the relationship of the Church to popular culture and secular powers.
Cross Listed: HIST 126; only one may be counted for credit.

HRS 127. History of Christianity Since the Reformation. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

European Christianity from the Reformation to the present. Emphasis on the evolution of Christian thought, the co-existence of the Catholic and Protestant traditions and the relationship of religious and secular values in European society.
Cross Listed: HIST 127; only one may be counted for credit.

HRS 131. Medieval Culture. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Decline of Rome to the Renaissance. Emphasis on the cultural development of the West from the Germanic invasions until the advent of Humanism with attention to theology, art, architecture and literature to illustrate the dynamics of these diverse years.

HRS 132. Renaissance. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Spring only

Investigates the nature and implications of Renaissance Humanism in Italy (14th and 15th centuries) as well as its impact in Northern Europe in the 16th century. Includes the literary works of such writers as Petrarch, Pico, Machiavelli, Erasmus and Cervantes, along with the art of Giotto, Botticelli, Michelangelo, Brunelleschi, Cellini, Dufay, da Vinci, and the music of Palestrina.

HRS 134. Baroque and the Enlightenment. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Multi-faceted survey of the culture of Europe and North America in the Age of the Baroque and Enlightenment (1600-1792). Emphasizes literature, music, painting, architecture and ideas in France, Britain, Germany and Italy.

HRS 135. Romanticism and Revolution. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Interdisciplinary survey of the cultures of Europe and North America in the 19th century. Building on the Romantic aesthetic developed late in the 18th century. Considers the literature, music, painting and ideas of northern Europe and America until the 1900s.

HRS 136. Birth Of The Modern. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Investigation of those crises in art and society underlying the development of modernism and post-modernism.

HRS 137. Global Crossings: Art and Culture 1945 to Present. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Exploration of concepts and expressions of postmodernism and its emphasis on irony, citation, and the interconnectedness of politics, aesthetics, and philosophy across the disciplines (art, literature, architecture, film) and the continents (Europe, Asia, Africa, America and Latin America).

HRS 141. Introduction To Judaism. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Survey and analysis of the fundamental tenets of Judaism set within the context of the historical and intellectual development of the Jewish People.

HRS 142. Introduction to Christianity. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Study of the beliefs, practices, institutions and history of the Christian religion. Emphasis on the Orthodox, Roman Catholic, and Protestant traditions and the relationship of Christianity to global cultures.

HRS 144. Introduction To Islam. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Survey of the Islamic way of life: its beliefs, traditions and practices from Quranic origins and the Sunna of the Prophet Muhammad. The historical development of Islamic law, religious sects, mysticism, and intellectual thought of the global Muslim community from medieval to contemporary times.

HRS 145. Introduction to Islamic Cultures. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

Survey of the expression of Islamic values in religious practice, philosophy, theology, art, architecture, music, and literature in different geographic locations and historical periods.

HRS 146. Islam in America. 3 Units
Term Typically Offered: Fall, Spring

An inquiry into the history and development of Islam in United States. Special emphasis will be placed on issues related to race, ethnicity, gender, ritual practice, and the politics of being Muslim in America.

HRS 147. History of Buddhism. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examines in cultural and historical perspective, drawing on both ancient and contemporary sources, the key practices and ideas of Buddhist traditions in India, China, Southeast Asia, Tibet, Japan, and other surrounding regions; as well as the more recent spread of these practices and ideas to Europe, North America, and Australia.
Cross listed: HIST 147

HRS 148. African Arts and Cultures. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Survey of African cultural and artistic forms which explores the intersection of culture and the humanities in different African contexts-past and present. Emphasizes the cultural diversity of the African continent, and surveys how different cultural, ethical, aesthetic, and religious values are expressed in literature, visual art, music, architecture, and ritual. Focuses primarily on sub-Saharan Africa.

HRS 151. World Mythology. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to the nature and function of myth. The specific literature studied will be exclusive of classical mythology and because of the breadth of subject matter will vary in content. The mythology of at least four cultures will be covered each term.

HRS 152. Great Mystics of the World. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examination of the meaning of mysticism as a 'direct experience of ultimate reality' in the world's religions. The history, teachings, belief systems and scriptures of Hinduism, Buddhism, Daoism, Confucianism, Judaism, Christianity and Islam will be studied to illuminate the lives and works of each religion's great mystical thinkers.

HRS 154. Food, Farming, and the Sacred. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examination of primary sources dealing with the sacred dimensions of food and farming in pre-modern and modern world cultures. Attention paid to sustainable, small-scale farming, and spiritual perspectives that promote and reinforce sustainable food practices. Interested students may receive one additional unit of credit for 20 hours of work with a local organization involved in farming and/or local food distribution through the Community Engagement Center and reflection assignments relating this work to course materials.

HRS 155. Spirit and Nature. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Comparative inquiry into the critical connection between religion and nature. Traditional views of selfhood, the sacred, morality and specific ecological issues, such as energy consumption will be examined through representative sources in world religions.

HRS 161. Multicultural America. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Topically structured, interdisciplinary introduction to the cultural experiences of historically under-represented groups. Historical and contemporary events, as well as values and beliefs in American culture, are examined through various artistic expressions, such as music, painting and literature.

HRS 162. American Space and Identity. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examination of the ways in which physical spaces within America contribute to the formation of American identities and vice versa. Interdisciplinary and topically organized, analyzes both exterior and interior spaces: city, suburb, regions, body, mind, and the borderlands, to name a few. Also studies the interaction of race, class, gender, and sexuality with space and identity.

HRS 168. Images Of America. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)
Term Typically Offered: Fall, Spring

Interdisciplinary survey of major events, trends and figures in American history viewed through the lenses of American literature, visual arts, music and architecture. The arts in America are studied in relation to major ideas, significant personalities and important historical events from the period of the early republic to the present.
Cross Listed: HIST 168; only one may be counted for credit.

HRS 169. Hollywood and America. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Chronological survey of American films and their cultural significance from the 1890s to the present. Focus on films produced in Hollywood, the contexts in which they were created and the impact of Hollywood as a geographical and mythical place in the development of American culture.
Cross Listed: HIST 169; only one may be counted for credit.

HRS 170. The Religious Landscape of the Sacramento Valley. ✎ 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Introduction to the field study of religious communities. Addresses the nature of religious pluralism in the U.S. today. The practice and belief systems of at least five different religious communities will be studied each semester. Students are required to do an in-depth term project based on research in one or more religious communities
Cross Listed: ANTH 170; only one may be counted for credit.

HRS 171. Introduction to the East Asian World. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Comparative study of the cultural heritages of China and Japan through literature, art, religion, philosophy and history. East Asian modes of thinking and humanistic expressions will be identified and contrasted with those of the West.

HRS 172. The Classical Culture of China. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to classical Chinese culture through a survey of history, philosophy, religion, literature and art. The course identifies the uniqueness of Chinese culture as well as the common concerns it shares with other high cultures.

HRS 173. Chinese Philosophy and Religion. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Study of Chinese philosophic and religious ideas through representative works in English. The traditional Chinese views on human nature, society, politics, morality, and spirituality are examined. The Chinese transformation of Buddhism will also be discussed. The inner dynamics of traditional Chinese thought and its contemporary implications are explored.

HRS 174. Modern Japanese Literature and Culture. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Study of representative Japanese literature (in English translation) from the late Tokugawa through the modern period. Traditional Japanese values will be identified and Japan's journey toward modernity examined. Both the uniqueness of Japanese culture and common concerns among cultures will be explored.

HRS 175. Zen Buddhism and Daoism. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Mystical nature of Daoist and Zen teachings will be emphasized. The organic linkage between Daoism in China and Buddhism in India will be explored. The emergence of Zen as a quintessential representative of East Asian cultural and aesthetic values will be discussed.

HRS 176. The Confucian Tradition. 3 Units
Term Typically Offered: Fall, Spring

Study of the Confucian tradition as it unfolded in China and influenced China's East Asian Neighbors. Philosophical and religious dimensions, as well as the evolution and transformation of this uniquely Chinese tradition over time, will be studied. The Confucian influence on Chinese culture, philosophy, religion, literature, political structure and social organization will be identified and analyzed.

HRS 178. Religions of India. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

An introduction to the bewildering diversity of Indian religions, relating religious practices & ideas to broader cultural developments, including visual arts and literature. Focuses on the way Hindu, Buddhist, Jain and Sikh traditions address the concept of karma in distinctive ways, paying special attention to the way words and intentions are said to influence the consequences of a person's deeds.

HRS 178A. Religions of India I: The Formative Period. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to religious life on the Indian subcontinent during its ancient period, relating religious practices and ideas to broader cultural developments, including visual arts and literature.

HRS 178B. India's Religions: Jains & Sikhs. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only – odd years

Introduction to India's stunningly diverse religious landscape, exploring perspectives and practices in the development of the lesser known but widely influential Jain and Sikh traditions that lend special insight into India¿s modern cultural practice and worldview. Focuses on Jain and Sikh notions of heroism and non-violence, paying special attention to the ideals of iconoclasm, religious pluralism and devotion.

HRS 179A. The Hindu Year: Fall. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A survey of Hindu religious teachings, stories, and history, as expressed through the holy days and festivals celebrated each fall by Hindus throughout India and abroad, during which ideas, stories, and values are transmitted from one generation to the next. Examines the little understood and rarely discussed historical development behind each celebration, based on both ancient and contemporary sources, thereby reveling why Hindu ideas and history have remained compelling to Hindus for thousands of years.

HRS 179B. The Hindu Year: Spring. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A Survey of Hindu religious teachings, stories, and history, as expressed through the holy days and festivals celebrated each spring and summer by Hindus throughout India and abroad, during which ideas, stories, and values are transmitted from one generation to the next. Examines the little understood and rarely discussed historical development behind each celebration, based on both ancient and contemporary sources, thereby revealing why Hindu ideas and history have remained compelling to Hindus for thousands of years.

HRS 180. The Film. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Introduction to the aesthetics of cinema with special attention to the evolution of critical theories of cinema within the framework of twentieth century arts and ideas.

HRS 181. Contemporary Issues in Film. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examination of contemporary film and film criticism from an interdisciplinary perspective, stressing the links between film, literature, the visual arts and society.

HRS 183. World Religions and Cultures in Cinema. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Summer only

Examination of the religious and spiritual dimensions of selected films from around the world. The cinematic arts are examined in relationship to religious and spiritual concerns, concepts, and values.

HRS 185. Women in Film and American Culture. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Study of major social issues confronting American women, examined through their images in film and other visual and literary arts.

HRS 188. Fantasy and Romance. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Exploration of the aesthetic of fantasy. Approaches may include emphasis on the historical development of the quest-romance or the use of the fantastic as social commentary. Particular genres, such as science fiction, may be explored.

HRS 190B. Seminar in HRS: The Body. 3 Units
Prerequisite(s): Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS major or minors only.
Term Typically Offered: Fall, Spring

Seminar for Humanities and Religious Studies majors. Examines cultural constructions of the body through analysis of art and literature and through the insights of media studies, cultural studies, sociological, psychology, and anthropology.
Cross listed: HRS 290B

HRS 190C. Seminar in HRS: Many Realities of Consciousnes. 3 Units
Prerequisite(s): Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS major or minors only
Term Typically Offered: Fall, Spring

Seminar for Humanities and Religious Studies majors. Examines philosophies and theories of perception as applied to cultures, religious traditions, nature, film and literature. Investigates consciousness through examination of the subjectivity of human perception.
Cross listed: HRS 290C

HRS 190D. Seminar in HRS: Death and Afterlife. 3 Units
Prerequisite(s): Must be HRS major or minor; Completion of 9 units of HRS lower division courses; Completion of the GWAR.
Term Typically Offered: Fall, Spring

Seminar for Humanities and Religious Studies majors. Examines myths, theories, and perceptions of death and afterlife in cross-cultural and historical perspective through analysis of literature, the visual arts, and music.
Cross listed: HRS 290D

HRS 190H. Seminar in HRS: The Hero. 3 Units
Prerequisite(s): Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS major or minors only
Term Typically Offered: Fall, Spring

Seminar for Humanities and Religious Studies. Examines the hero in cross-cultural and historical perspective through analysis of visual artifacts, literature, history, philosophy, music and film.
Cross listed: HRS 290H

HRS 190M. Saints, Relics, and Miracles in Late Antique and Medieval Europe. 3 Units
Prerequisite(s): Student must complete 9 units of lower division core courses and be eligible for WI classes based on WPJ placement score or passage of the appropriate prerequisite
Term Typically Offered: Fall, Spring

Seminar in Humanities and Religious Studies majors. Examines the role of the body in the creation of saints' cults in medieval Europe through analysis of literature and art. Considers how the idea of martyrdom set the terms for an ideal Christian life and explores the role relics, pilgrimage and miracle stories played in medieval society.
Cross Listed: HRS 290M

HRS 195. Seminar in Humanities. 3 Units
Prerequisite(s): Completion of 12 units of HRS lower division core courses, HRS 105, senior status; or instructor permission.
Term Typically Offered: Spring only

Senior seminar for Humanities and Religious Studies majors with Humanities Concentration; focuses on the perspectives and methods of the academic study of the humanities. Topics chosen by the instructor.
Note: May be repeated once for credit.

HRS 196. Experimental Offerings in Humanities and Religious Studies. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Special experimental course on specific themes, figures, or topic areas.
Note: May be taken twice for credit if topic differs.

Credit/No Credit

HRS 198. Seminar in Religious Studies. 3 Units
Prerequisite(s): Completion of 9 units of HRS lower division core courses, HRS 108, senior status; or instructor permission.
Term Typically Offered: Spring only

Senior seminar for Humanities and Religious Studies majors with Religious Studies Concentration; focuses on the perspectives and methods of the academic study of religion. Topics chosen by the instructor.
Note: May be repeated once for credit.

HRS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Tutorial-reading course involving independent research. Topic and research method to be decided upon jointly by student and instructor.
Note: May be repeated for credit.

HRS 200A. Culture and Expression: Prehistory to the Middle Ages. 3 Units
Prerequisite(s): Must be a HRS major or minor
Term Typically Offered: Fall, Spring

Interdisciplinary seminar on cultural movements, figures, and art forms of eras from prehistory to the Europen Middle Ages. Focus on the West with some global comparison. Emphasis on theoretical perspectives, methods, and research techniques germane to the humanaties.

HRS 200B. Culture and Expression: Renaissance to the Present. 3 Units
Prerequisite(s): Must be a HRS major or minor
Term Typically Offered: Fall, Spring

Interdisciplinary seminar on cultural movements, figures and art forms of eras from the Renaissance to the present. Focus on the West with some global comparison. Emphasis on theoretical perspectives, methods and research techniques germane to the liberal arts.

HRS 202. Western Aesthetics: Traditions and Revision. 3 Units
Prerequisite(s): Graduate standing.
Term Typically Offered: Fall, Spring

Introduction to critical methodologies in the Humanities and to techniques of formal analysis as applied to specific eras and artworks in Western cultural history.

HRS 205. Space and Time. 3 Units
Prerequisite(s): 6 units in philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to significant philosophical issues involving space and time. An investigation into the current state of these issues.
Note: No background or work in mathematics or physics is required.
Cross-listed: PHIL 192D; only one may be counted for credit.

HRS 209. Versions of the Self in Western Literature and the Arts. 3 Units
Term Typically Offered: Fall, Spring

Traces the stages through which the concept of the 'self' emerges in Western literature, philosophy and the arts, from Antiquity to the 20th Century. Focus is on the transformation of moral identity as the West moves from a divinely ordered cosmos to a relativized universe.

HRS 210. Gender and Religion in Cross-Cultural Perspective. 3 Units
Term Typically Offered: Fall, Spring

Exploration of the relationships and roles of women and men in the context of religious life. May focus extensively on one or more particular religious traditions cross-culturally, or draw on a wider spectrum of examples. Special attention paid to the complementary nature of men's and women's roles in many religious traditions; and also the way that male perspectives have dominated many areas of formal religious discourse, noting the dissenting voices of women often hidden in more informal types of expression.
Cross Listed: LIBA 210; only one may be counted for credit.

HRS 213. Ancient Greek Culture. 3 Units
Term Typically Offered: Fall, Spring

A graduate-level survey of ancient Greek culture. Emphasis on social and private life, religion, historiography, literature, philosophy, drama, art, and architecture.

HRS 214. Ancient Roman Culture. 3 Units
Term Typically Offered: Fall, Spring

A graduate-level survey of Roman culture. Emphasis on social and private life, religion, historiography, literature, philosophy, drama, art, and architecture.

HRS 216. Historical Reflections on the American Dream. 3 Units
Term Typically Offered: Fall, Spring

Multicultural exploration of how our nation's history has been constructed, experienced, told and valued from varying ethno-cultural points of view, including each student's personal history.

HRS 217. Ordinary America. 3 Units
Term Typically Offered: Fall, Spring

Inquiry into the issues, theories, and methods associated with popular and material culture studies in order to provide students with insights into the past and present nature of American experience. Intended to be an exploration of the ways in which popular and material culture both reflect and contribute to the search for meaning in everyday life.

HRS 220. Seminar in Religious Studies. 3 Units
Term Typically Offered: Fall, Spring

Designed to offer a variety of topics in the study of religion. Seminar presents a rotating series of subjects ranging from ancient religious literature to contemporary religious problems.

HRS 222. Evolving Concepts of God: Portrait of Deity in Monotheistic Religions. 3 Units
Term Typically Offered: Fall, Spring

Seminar traces the historical origin and cultural evolution of the God concept in monotheistic religions. Topics include the archaeological record of humanity's earliest religious artifacts, evidence for the prehistoric worship of the 'Great Goddess' figure, an examination of the polytheistic religions of the ancient Near East and their influence on the development of monotheism. Analyzes the evolving portrait of the Deity in the Hebrew Bible (Old Testament), the New Testament, and the Koran.

HRS 224. Religions of the Roman Empire. 3 Units
Term Typically Offered: Fall, Spring

Survey of the major religious beliefs and practices in the Greco-Roman world from 100B.C.E. -- 400C.E. Topics include traditional Greek and Roman religions, healing cults, philosophical religion and Gnosticism.

HRS 226. Wisdom and Apocalyptic Literature. 3 Units
Prerequisite(s): LIBA 200A or graduate status in History or instructor permission.
Term Typically Offered: Fall, Spring

Examines two of the more creative literary genres that make up the canonical and deuterocanonical literature of the Jewish and Christian bibles. Both the historical and theological underpinnings of wisdom and apocalyptic writing will be explored in-depth, with some consideration given to literary analogues in Egyptian, Mesopotamian and Greek culture. Significant research into wisdom and apocalyptic writings outside of the testamental framework required.
Cross Listed: LIBA 226; only one may be counted for credit.

HRS 228. Early Christian Literature. 3 Units
Term Typically Offered: Fall, Spring

Survey of the major genres of Christian literature in the first three centuries CE and their relationship to the development of Christian thought and institutions. Topics include the New Testament; Jewish-Christian literature; Gnostic Christian literature; apocryphal gospels, acts, epistles, and apocalypses; polemical literature; lives of saints; and canons and creeds produced by early church councils.

HRS 234. The Gothic Spirit. 3 Units
Term Typically Offered: Fall, Spring

Arts and ideas of the twelfth and thirteenth centuries in Western Europe, structured according to the principle of the 'reconciliation of opposites.' The Gothic period sees such opposites as faith and reason, vertical and horizontal (in architecture), counterpoint brought into harmony (in music). The period culminates in Dante's masterpiece, the Divine Comedy, which exhibits the reconciliation of opposites in such sets as female/male, faith/reason, human/divine, beauty/horror, and chaos/harmony.

HRS 235. Transcendence & Transgression in the Romantic Period. 3 Units
Term Typically Offered: Fall, Spring

Interdisciplinary study of Romanticism and other literary, philosophical, and artistic movements of the 18th and 19th centuries. Topics will vary from term to term.

HRS 236. Modernism: Contingent Realities of Self and World. 3 Units
Prerequisite(s): Graduate standing or instructor permission.
Term Typically Offered: Fall, Spring

Interdisciplinary studies in the arts of the modern era.

HRS 237. Global Citizenship and Culture. 3 Units
Term Typically Offered: Fall, Spring

This seminar is an exploration of how 'the global' is conceptualized in an age with competing notions of the individual and the community. Special emphasis will be placed on race, class, ethnicity & gender to elucidate the many paths that thought, language, and identity take when traversing borders.

HRS 290B. Seminar in HRS: The Body. 3 Units
Prerequisite(s): Must be an HRS major or minor; Completion of 9 units of HRS lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite
Term Typically Offered: Fall, Spring

Seminar for graduate students studying in the Department of Humanities and Religious Studies. Examines cultural constructions of the body through analysis of art and literature and through the insights of media studies, cultural studies, sociology, psychology, and anthropology.
Cross listed: HRS 190B

HRS 290C. Seminar in HRS: The Many Realities of Consciousness. 3 Units
Prerequisite(s): Must be an HRS major or minor; Completion of 9 units of HRS lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite
Term Typically Offered: Fall, Spring

Seminar for graduate students studying in the Department of Humanities and Religious Studies. Examines philosophies and theories of perception as applied to cultures, religious traditions, nature, film and literature. Investigates consciousness through examination of the subjectivity of human perception.
Cross listed: HRS 190C

HRS 290D. Seminar in HRS: Death & Afterlife. 3 Units
Prerequisite(s): Must be HRS major or minor; Completion of 9 units of HRS lower division courses; Completion of the WPJ.
Term Typically Offered: Fall, Spring

Seminar for graduate students studying in the Department of Humanities and Religious Studies. Examines myths, theories, and perceptions of death and afterlife in cross-cultural and historical perspective through analysis of literature, the visual arts, and music.
Cross listed: HRS 190D

HRS 290H. Seminar in HRS: The Hero. 3 Units
Prerequisite(s): Completion of 9 units of HRS lower division core courses and eligibility for WI classes based on the WPJ placement score or passage of the appropriate prerequisite
Term Typically Offered: Fall, Spring

Seminar for graduate students studying in the Department of Humanities and Religious Studies. Examines the hero in cross-cultural and historical perspective through analysis of visual artifacts, literature, history, philosophy, music and film.
Cross listed: HRS 190H

HRS 290M. Saints, Relics, and Miracles in Late Antique and Medieval Europe. 3 Units
Prerequisite(s): Completion of 9 units of lower division core courses and eligibility for WI classes based on WPJ placement score or passage of the appropriate prerequisite; HRS majors or minors only.
Seminar for graduate students in Department of Humanities and Religious Studies. Examines the role of the body in the creation of saints' cults in medieval Europe through analysis of literature and art. Considers how the idea of martyrdom set the terms for an ideal Christian life and explores the role relics, pilgrimage and miracle stories played in medieval society.
Cross Listed: HRS 190M

HRS 296. Experimental Offerings in Humanities & Religious Studies. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Special graduate-level experimental course on specific themes, figures or topic areas. Scheduled as needed.
Note: May be taken twice for credit if topic differs.

HRS 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty member under whom the work is to be conducted and of the department's Graduate Advisor.
Term Typically Offered: Fall, Spring

Graduate level tutorial-reading course involving independent research. Topic and research method to be decided upon jointly by student and instructor.

HRS 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy and permission of the Graduate Coordinator.
Term Typically Offered: Fall, Spring

Completion of a thesis or comprehensive examination.

Interdisciplinary Studies (ID)

ID 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the university. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Provides students with the opportunity to interact with fellow classmates and the seminar leader to build community of academic support and personal support.

ID 22. Contemporary Issues and Social Change. 3 Units
Prerequisite(s): ETHN 21
Generation after generation, university students have been key constituents in movements for social change. From public demonstrations to research studies, colleges and universities afford countless opportunities for students to advocate for a better world. This course explores how students can utilize university resources to explore interests and concerns, hone academic skills, and contribute to social change.

ID 96I. Experimental Offerings in Interdisciplinary Studies. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Opportunity for consideration of topics that cross disciplinary boundaries. Content will vary depending on the needs of students and interests of faculty.

ID 99. Special Problems. 1 - 4 Units
Term Typically Offered: Fall, Spring

Individualized directed projects or reading. Open to lower division students who present an adequately supervised plan of study. The course study should be interdisciplinary in nature and requires the approval of the faculty member under whom the individual work is to be conducted and of the Dean of the College of Social Sciences and Interdisciplinary Studies.
Credit/No Credit

ID 124. Social Justice in Interdisciplinary Perspective. 3 Units
Prerequisite(s): Sophomore standing or instructor permission.
Term Typically Offered: Fall, Spring

Examines the nature and forms of social justice and injustice. Addresses key philosophical and theoretical models and debates over the meaning of social justice, using historical and contemporary examples to highlight important concepts and controversies. Faculty from different departments within SSIS, and occasionally from other colleges, will address how their discipline understands and analyzes issues of social justice. Students will be encouraged to critically assess the assumptions of various perspectives on social justice, and to address the relationship of academe and social activism in achieving social justice.
Cross-listed: ANTH 130, ENVS 124, ETHN 124, FACS 124 and SOC 124. Only one may be counted for credit.

ID 194. Experiential Learning. 1 - 6 Units
Term Typically Offered: Fall, Spring

Re-entry students may earn 1-6 units by documenting their interdisciplinary life/work experiences that meet the objectives of upper division university course work for an appropriate faculty member to evaluate. Approval of credit is granted by the Dean of the College of Social Sciences and Interdisciplinary Studies. Students must attend a workshop scheduled through the Academic Advising Center during the semester prior to registering for the course. Credit must be awarded prior to applying for graduation.
Credit/No Credit

ID 195. Field Experience. 1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised work experience of an interdisciplinary nature in an approved business, education, government or service agency. Students are required to engage in a minimum of three hours of supervised work per week for each semester unit of credit granted.
Note: May be repeated for credit up to a total of 6 units.

Credit/No Credit

ID 195A. Introductory Field Experience in Peer Health Education. 2 - 3 Units
Term Typically Offered: Fall, Spring

Hands-on experience working in Student Health and Counseling Services' Health and Wellness Promotion department. Instruction covers basic theory and practice of peer health education. Under supervision, students function as Peer Health Educators, providing peer outreach and education on key college health issues. Students complete 2-3 units per semester. Participants are expected to commit to both ID 195A and ID 195B, for up to 6 units of total credit.
Credit/No Credit

ID 195B. Intermediate Field Experience in Peer Health Education. 2 - 3 Units
Prerequisite(s): ID 195A and instructor permission.
Term Typically Offered: Fall, Spring

Continued hands-on experience working in Student Health and Counseling Services' Health and Wellness Promotion department. Instruction covers intermediate theory and practice of peer health education. Under supervision, students function as Peer Health Educators, providing peer outreach and education on key college health issues. Students complete 2-3 units per semester. Participants are expected to commit to both ID 195A and ID 1958, for up to 6 units of credit total.
Credit/No Credit

ID 195C. Advanced Field Experience in Peer Health Education. 1 - 2 Units
Prerequisite(s): ID 195A, ID 195B, and instructor permission.
Term Typically Offered: Fall, Spring

Further explores the theory and practice of peer education while building advanced leadership skills. Includes both academic and experiential aspects, allowing students to develop a deeper understanding of key college health issues, presentation skills, and program planning. Students serve as mentors and assistant trainers to Peer Health Educators, plan and implement campus events, and present classes to peer groups on campus.
Credit/No Credit

ID 196. Advanced Experimental Offerings in Interdisciplinary Studies. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Opportunity for in-depth consideration of topics that cross disciplinary boundaries. Content will vary on the needs of the students and interests of faculty.

ID 197. Training and Leadership for Orientation Leaders. 3 Units
Term Typically Offered: Fall, Spring

Introduce participants to concepts in peer advising and orientation at Sacramento State. Students will learn about the philosophy and purpose of orientation, academic policies, student services and campus facilities. Class activities are planned to help develop the leadership, interpersonal and communication skills necessary to be an effective peer adviser and campus representative.
Note: May be repeated for credit up to 6 units.

Credit/No Credit

ID 199. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work. Generally will involve two or more of the major academic administrative units of the university. Admission requires the approval of the faculty member under whom the individual work is to be conducted and of the Dean of the College of Social Sciences and Interdisciplinary Studies.
Credit/No Credit

ID 200. Interdisciplinary Reading Seminar. 1 - 6 Units
Term Typically Offered: Fall, Spring

Readings in selected interdisciplinary topics. May be taken twice for credit.

ID 201. Interdisciplinary Research Seminar. 1 - 6 Units
Term Typically Offered: Fall, Spring

Research in selected interdisciplinary topics. May be taken twice for credit.

ID 296A. Grant Writing and Management. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Designed to provide an understanding of the grant seeking and management process. Seeks to acquaint students with the processes for designing, submitting and managing successful grant funding projects.
Credit/No Credit

ID 299. Special Problems. 1 - 4 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Generally involves two or more of the major academic units of the university.
Note: Departmental petition required.

Credit/No Credit

ID 500. Culminating Experience. 3 Units
Term Typically Offered: Fall, Spring

Completion of the Thesis or Project approved for the Master's degree.
Note: Advanced to candidacy for the Special Major Master's degree.

Interior Design (INTD)

INTD 15. Introduction to Interior Design. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Introduction to the field of interior design. Consideration of human factors, aesthetics, design process, furnishings, surface treatments, and current issues. Lecture, discussions, field trips, two hours.
Field trip(s) may be required.

INTD 20. Design. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

Examination of the visual arts as expressed in architecture and interiors, community planning, painting and sculpture, furniture, ceramics, graphics, photography, clothing, and industrial design. Lecture, discussion.

INTD 25. Design Fundamentals. 3 Units
Term Typically Offered: Fall, Spring

Introduction to designing interior spaces. Emphasis on the manipulation and understanding of two- and three-dimensional elements of interior spatial design. Fundamentals of visual communication strategies. Studio activity six hours.

INTD 27. Introduction to Interior Architecture Studio. 3 Units
Prerequisite(s): INTD 25, INTD 30 Fee course.
Term Typically Offered: Fall, Spring

Exploration of design and space planning fundamentals and their use in creating architectural interiors. Students will communicate designs through two- and three dimensional drawings and models.
Fee course.

INTD 30. Introduction to Computer Aided Design. 3 Units
Prerequisite(s): INTD 25 or concurrent registration in INTD 25 is permissible if student has completed either GPHD 25 or PHOT 11.
Term Typically Offered: Fall, Spring

Introduction to the principles and techniques of architectural drafting. Through a series of exercises, students will learn digital drafting techniques commonly used to generate floor plans, sections, elevations, and axonometrics. Through a series of design problems, students will also be introduced to basic space planning concepts and vocabulary. Emphasis will be on CAD drawing skills and conventions, CAD vocabulary, and CAD document management procedures.

INTD 123. Survey of Western Architecture and Interiors. 3 Units
Term Typically Offered: Fall only

Survey of European and American buildings, interiors, furniture and decorative arts from the stone age through the twentieth century. We will look at individual works as representative of trends in design history and as reflections of broad cultural forces: economic, political, etc.

INTD 124A. American Design. 3 Units
Term Typically Offered: Fall, Spring

Survey of high-style and vernacular buildings, interiors, and decorative arts from the 17th century to the beginning of World War I. Analyzes European, Asian, Hispanic/Latino/Chicano and other background sources of inspiration and influence. Lecture-discussion.

INTD 124D. Principles of House Design. 3 Units
Term Typically Offered: Fall, Spring

Introduction to some of the major architectural movements of the 20th Century; discussion of environmental concerns as they relate to house design; study of basic principles in planning a house. Lecture, discussion, field trip.
Field trip(s) may be required.

INTD 124E. Film/Design. 3 Units
Term Typically Offered: Fall, Spring

Students will explore design approaches that give films a feeling of suspense, create a sense of place, or establish a period in time. This course will increase student awareness of space in filmmaking, and demonstrate that spatial organization plays a key role in the aesthetic success of a motion picture.

INTD 124F. Avant Garde Cinema. 3 Units
Prerequisite(s): ENGL 97 or PHOT 102.
Term Typically Offered: Spring only

Survey of experimental film from the beginning of the cinema in the 1890s through today's' avant garde. Emphasis filmmaking as a means of personal, artistic expression, and will pay particular attention to those aspects of cinema that are typically ignored or marginalized in mainstream Hollywood movies. Films studied include those by: Melies, Porter, Richter, Leger, Cornell, Deren, Brackhage, Jacobs and Gehr.
Cross listed: FILM 124F.

INTD 125. Urban Design and Society. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

A history of urban design from Ancient Greece through today. The course will look at the conceptualizing, planning and development of cities through two distinct lenses: one focusing on visual and physical qualities, the other on how urban planning has been used to promote social/economic policy, political ideologies and institutions. Lecture, discussion. 3 units . GE Area D.

INTD 151. Interior Design Graphics I. 3 Units
Prerequisite(s): Grade 'C' or better in each of the following courses: INTD 25, INTD 30, GPHD 10, GPHD 25, and PHOT 11
Corequisite(s): INTD 153 and either INTD 155 or INTD 165
Term Typically Offered: Fall, Spring

Emphasis will be on developing perspective and rendering capabilities, as well as on developing techniques for the execution of furniture, fabric, and color boards. Studio activity six hours.

INTD 153. Interior Design Studio I. 3 Units
Prerequisite(s): Grade 'C' or better in each of the following courses: INTD 25, INTD 30, GPHD 10, GPHD 25, PHOT 11
Corequisite(s): INTD 151 and either INTD 155 or INTD 165
Term Typically Offered: Fall, Spring

Introductory studio course with emphasis on understanding functional and formal elements of architectural interiors. Students will communicate designs through two- and three dimensional drawings and models. Studio activity six hours.

INTD 155. Professional Practice I. 3 Units
Prerequisite(s): INTD 15 and INTD 30.
Term Typically Offered: Fall only

Study of the concepts and the analysis of technical and aesthetic applications of lighting design in both residential and commercial interiors. Lecture, discussion, field trips.
Field trip(s) may be required.

INTD 161. Interior Design Graphics II. 3 Units
Prerequisite(s): Grade 'C' or better in each of the following courses: INTD 151, INTD 153 and either INTD 155 or INTD 165.
Corequisite(s): INTD 163 and either INTD 155 or INTD 165.
Term Typically Offered: Fall, Spring

Continuation of the principles and techniques used in INTD 30. Students will be introduced to the different presentation types that are utilized including CAD as a 2D rendering and presentation tool. Emphasis will be on file setup, composition and layout of projects within the schematic design, design development, and construction document phases of design. Assignments will demonstrate typical design applications commonly used in the interior design/architecture professions including systems furniture planning and tenant improvement. Studio activity six hours.

INTD 163. Interior Architecture Studio II. 5 Units
Prerequisite(s): INTD 151, INTD 153 and either INTD 155 or INTD 165.
Corequisite(s): INTD 161 and either INTD 155 or INTD 165. Fee course.
Term Typically Offered: Fall, Spring

Prerequisite:An intermediate studio course where students continue to develop their understanding of functional and formal elements of architectural interiors. Students will communicate designs through two- and three-dimensional drawings and models. Studio activity six hours.
Note: $22 for printing and miscellaneous materials

Fee course.

INTD 165. Professional Practice II. 3 Units
Prerequisite(s): INTD 15 and INTD 30.
Term Typically Offered: Spring only

Development of selection criteria for interior finishes based on material properties, cost and availability. An introduction to non-structural interior construction including wood and light gauge steel systems will be studied. Additional topics will include MEP systems, ceiling systems, and casework. Lecture/field trips.
Field trip(s) may be required.

INTD 171. Interior Design Graphics III. 3 Units
Prerequisite(s): Grade 'C' or better in each of the following courses: INTD 161, INTD 163 and INTD 165.
Corequisite(s): INTD 173 and either INTD 175 or INTD 195.
Term Typically Offered: Fall, Spring

Continuation of the principals and techniques used in INTD 30 and INTD 161. Students will become familiar with the basic vocabulary and concepts of three-dimensional modeling. Students will be introduced to three different modeling techniques - wireframe, surface and solid. Emphasis will be on the construction of 3D CAD models as a means for quickly generating design alternatives. Topics include 3D modeling concepts and techniques, the behavior of materials with light, material characteristics and textures, and computer rendering output methods. Studio activity six hours.

INTD 173. Interior Architecture Studio III. 5 Units
Prerequisite(s): INTD 161, INTD 163 and INTD 165.
Corequisite(s): INTD 171 and either INTD 175 or INTD 195. Fee course.
Term Typically Offered: Fall, Spring

Advanced studio course where students continue to develop their understanding of functional and formal elements of architectural interiors. Students will communicate designs through two- and three-dimensional drawings and models. Studio activity six hours.
Note: $50.00 for three-dimensional printing of physical models and misc.

Fee course.

INTD 175. Professional Practice III. 3 Units
Prerequisite(s): Grade 'C' or better in each of the following courses: INTD 161, INTD 163 and INTD 165.
Term Typically Offered: Fall only

Study of the professional role of the interior designer in relation to that of the client, contractor and consultants. Legal and ethical issues are explored. Building codes, life-safety codes and ADA requirements are studied with emphasis on permit and plan-check requirements. Preparation for the NCIDQ exam and certification procedures are covered.

INTD 181. Interior Design Graphics IV. 3 Units
Prerequisite(s): Grade 'C' or better in each of the following courses: INTD 171, INTD 173 and either INTD 175 or INTD 195.
Corequisite(s): INTD 183 and either INTD 175 or INTD 195.
Term Typically Offered: Fall, Spring

Interdisciplinary approach to prepare students for professional practice in the field of Interior Design. Student will be expected to complete a comprehensive portfolio of work.

INTD 183. Interior Architecture Studio IV. 5 Units
Prerequisite(s): INTD 171, INTD 173 and either INTD 175 or INTD 195.
Corequisite(s): INTD 181 and either INTD 175 or INTD 195. Fee course,
Term Typically Offered: Fall, Spring

Thesis studio in which students research and develop individual design projects. Students will draw upon knowledge and skills from previous coursework to create solutions to complex design problems. Projects are completed with assistance from instructor, client and working professionals. Students are required to submit a design proposal for instructor approval in the Fall. Studio activity six hours.
Note: $22 for printing and miscellaneous materials

INTD 195. Professional Practice IV-Internship. 3 Units
Prerequisite(s): Grade 'C' or better in each of the following courses: INTD 161, INTD 163, INTD 165.
Term Typically Offered: Fall, Spring

Direct work experience in approved architecture, design, corporate, private or government office. Supervision is provided by both the instructional staff and the cooperating agency.
Credit/No Credit

INTD 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

INTD 295. Field Study. 1 - 3 Units
Prerequisite(s): Undergraduate major or minor in Interior Design, individual arrangement with instructor.
Term Typically Offered: Fall, Spring

Guided study, observation or work experience in an area in which the graduate student needs advanced and specialized study.
Credit/No Credit

International Business (IBUS)

IBUS 180. Sustainability Business in Global Economy. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to the emerging field of sustainability in business and the growing focus on the social, environmental, and economic performance of businesses in global economy. The course presents scientific, moral, and business cases for adopting sustainability.

IBUS 190. International Business. 3 Units
Term Typically Offered: Fall, Spring, Summer

Analyzes international business: foreign markets; export-import trade; licensing agreements; foreign exchange problems; role of the multinational firm; intergovernmental trade agreements; balance of payments; decision making in foreign environments.

IBUS 195. Internship in International Business. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to upper division students, subject to permission of the Management Area. Open to declared business administration majors only. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.

Credit/No Credit

IBUS 199. Special Problems in International Business. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Center, Tahoe 1030.

Credit/No Credit

International Masters in Business Administration (IMBA)

IMBA 210. Managerial Accounting. 3 Units
Term Typically Offered: Fall, Spring

A consistent emphasis on managerial accounting and reporting is cost identification, allocation and control. This course expands the traditional view of accounting to include an examination of the integration of the historic three tools with cost elements. This expanded view would include environmental and political costs, compliance with multinational reporting standards, tax compliance and treaty costs.

IMBA 211. Global Corporate Finance. 3 Units
Term Typically Offered: Fall, Spring

Provides students a well-rounded understanding of the language and financial expectations/performance of organizations. Candidates will learn how to evaluate decisions from the perspective of shareholder and stakeholders. With this perspective they will be better equipped to make better business decisions and also understand the financial impact of those decisions.

IMBA 213. Marketing Management. 3 Units
Term Typically Offered: Fall, Spring

Presents how modern marketing principles can be applied to real-world situations. The emphasis will be on studying strategies used by organizations in today's highly competitive and evolving marketplace. Case studies will be utilized to fully develop techniques for creating marketing programs given varying levels of resources and information available under diverse market conditions.

IMBA 214. Statistical Decision Making. 3 Units
Term Typically Offered: Fall, Spring

Presents how business decisions are now made in an increasingly competitive and complex business environment. The emphasis will be on how to better respond to this challenge by using quantitative methods to forecast, extrapolate, analyze, and simulate a business situation for effective decision-making. Case studies will be used to develop those capabilities.

IMBA 215. Information Technology Management. 3 Units
Term Typically Offered: Fall, Spring

Covers the major challenges organizations deal with today as they attempt to manage their key technological resources as well as with implementing technological innovations. Addresses the digital opportunities and threats organizations face from senior management perspectives.

IMBA 216. Human Resource Management in Intl Perspective. 3 Units
Term Typically Offered: Fall, Spring

Reviews the organization theory from a macro perspective (structure, process, technology, people, and culture). Special attention will be paid to organization structure, human resources, design, control, culture and inter-organizational relationship.

IMBA 217. Business Law and Legal Environment. 3 Units
Term Typically Offered: Fall, Spring

Addresses such topics as comparative legal environments in international business, dispute settlement, foreign investment, money and banking, trade in goods, services and labor, intellectual property, sales, transportation, financing and taxation, multinational enterprise, and ethical standards and the responsible roles of business in international society.

IMBA 231. Global Financial Institutions and Markets. 3 Units
Prerequisite(s): IMBA 211.
Term Typically Offered: Fall, Spring

Introduces students to the principles and dynamics of international financial markets and institutions. Addresses the operational aspects of global financial institutions with the emphasis on foreign exchange risk management problem. The major objective is to have students develop an operational understanding of the financial problems faced by nations as well as the local and multinational corporation.

IMBA 232. International Trade. 3 Units
Prerequisite(s): IMBA 231.
Term Typically Offered: Fall, Spring

Examines in detail the global business operations within the context of today's international trade. International trade has an era typified by unprecedented worldwide production and distribution. Provides students with and understanding of these changes, and their impact on international trade. The primary objective is to prepare students to identify and respond to new opportunities and challenges in international trade.

IMBA 233. International Investments. 3 Units
Prerequisite(s): IMBA 231.
Term Typically Offered: Fall, Spring

The main objective is to provide students with a framework for making financial decisions in the international business arena. To this end, relevant features of exchange rate instruments and their determination, international equity markets, international investments will be covered. Also addressed is the issue of exposure to foreign exchange rate risk and associated hedging strategies.

IMBA 234. Contemporary Issues in International Finance. 3 Units
Prerequisite(s): IMBA 231.
Term Typically Offered: Fall, Spring

Focuses on exploring contemporary issues in international finance. Emphasis is placed on exploring and discussing: new financial investment instruments and consideration of the risk and return of the Venture Capital firms as an investment vehicle; the U.S. based Private Equity Funds around the world and the tools and techniques for managing foreign exchange risk; and the process of Initial Public Offerings (IPO) in different economies.

IMBA 241. Comparative International Management. 3 Units
Prerequisite(s): IMBA 216.
Term Typically Offered: Fall, Spring

Takes a global perspective in dealing with management issues in both foreign and diverse host environments. Communication and cross-cultural management issues are addressed in the context of changing global environments, especially in rapidly growing regions and countries.

IMBA 242. Multinational Corporate Management. 3 Units
Prerequisite(s): IMBA 216.
Term Typically Offered: Fall, Spring

Focuses on managerial challenges associated with developing strategies and managing operations of multinational corporations (MNCs) where activities stretch across national boundaries. A cross-cultural and functional perspective is adopted in investigating MNCs' operating environments and competitive strategies through the analysis and discussion of selected case materials.

IMBA 243. Global Supply Chain Management. 3 Units
Prerequisite(s): IMBA 216.
Term Typically Offered: Fall, Spring

Introduce the major concepts and tools for the delivery of enhanced customer and economic value through global synchronized management of the flow of physical goods and associated information from sourcing to consumption. Includes key topics in purchasing, supply chain management, and distribution and logistics management.

IMBA 244. Project Management. 3 Units
Prerequisite(s): IMBA 216.
Term Typically Offered: Fall, Spring

Covers all phases of managing projects, from project selection to project termination. Specific topics include project life cycle, project selection methods, planning and scheduling techniques, accounting and budgeting methods, resource allocation, procurement and contract negotiation, organizational and ethical issues, and project termination. Current issues and cases will also be discussed, and software systems, such as MS Project and Internet-based file sharing systems will be incorporated into relevant portions of the course.

IMBA 251. Information Technology Resource Management. 3 Units
Prerequisite(s): IMBA 215.
Term Typically Offered: Fall, Spring

Examines the management of information technology as a vital resource to an organization. As a vital resource, the business must effectively and efficiently manage and secure its IT resources.

IMBA 252. Enterprise Information Technology Planning. 3 Units
Prerequisite(s): IMBA 215.
Term Typically Offered: Fall, Spring

As an organizational integrator, IT presents many new opportunities at the enterprise level to design and implement new organizational structures and business processes. Enterprise IT primarily involves enterprise resource planning (ERP), supply chain management (SCM), knowledge management (KM) and customer relationship management (CRM) to support and seamlessly coordinate business activities.

IMBA 253. Strategic Information Technology Planning. 3 Units
Prerequisite(s): IMBA 215.
Term Typically Offered: Fall, Spring

Strategic IT planning defines the direction a business chooses to direct its IT resources. It encompasses a vision, mission, strategy and objectives that closely align to the business' vision, mission, strategy and objectives. Planning involves examining how IT will support the achievement of the business' goals and objectives, and how IT can open new opportunities to create new business goals.

IMBA 254. Information Technology Project Management. 3 Units
Prerequisite(s): IMBA 215.
Term Typically Offered: Fall, Spring

Implementing IT initiatives requires a business to not only carefully evaluate their alignment to the business' goals and objectives, but to identify and assess risks that they present. Selecting projects requires a comparison of their feasibility, complexity, scalability and impact. A project portfolio provides a means to direct the right resources to the right projects to ensure their completion at the right time. Plans must be developed and key performance measures identified and tracked.

IMBA 255. Information Technology Leadership. 3 Units
Prerequisite(s): IMBA 215.
Term Typically Offered: Fall, Spring

Leadership plays an important role in determining a business' success with IT. It requires recognizing and leveraging the business' competencies and core values, and championing initiatives and projects that work in the best interest of the business and create value. Examines the various elements that comprise IT leadership.

IMBA 296. Experimental Offerings in Executive Management. 3 Units
Term Typically Offered: Fall, Spring

When a sufficent number of qualified students apply, a faculty member may conduct a seminar on a designated advanced topic in executive management.
Note: May be repeated for credit

IMBA 299. Special Problems in Business. 1 - 3 Units
Prerequisite(s): Classified graduate standing or instructor approval
Term Typically Offered: Fall, Spring

Individual projects or directed readings for students qualified to carry on in independent work.
Note: Enrollment requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions to be obtained from the Graduate Business Advising Center (GBAC).

IMBA 500. Leadership and Change Management. 3 Units
Prerequisite(s): Must complete five of the following; IMBA 210, IMBA 211, IMBA 213, IMBA 214, IMBA 215, IMBA 216 and IMBA 217
Corequisite(s): May be concurrently enrolled in two of the following; IMBA 210, IMBA 211, IMBA 213, IMBA 214, IMBA 215, IMBA 216 and IMBA 217
Term Typically Offered: Fall, Spring

Advanced studies of leadership in business organizations. The key themes of the course are leading teams and leading during times of change. An integral part of the course is to study current business leaders and analyze their leadership practices. Leadership is studied in an integrated fashion based on different business functions and industrial experiences. Successful completion of this course satisfies the culminating experience for the IMBA program.

Italian (ITAL)

ITAL 1A. Elementary Italian. 4 Units
Term Typically Offered: Fall only

Focuses on the development of the four basic skills (understanding, speaking, reading, writing) through the presentation of many cultural components (two per week) which illustrate the Italian 'modus vivendi:' social issues, family, food, sports, etc.

ITAL 1B. Elementary Italian. 4 Units
Prerequisite(s): ITAL 1A or instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of ITAL 1A with greater emphasis on reading, writing. Addition of one reader which contains more cultural material (geography, political issues, government, fashion, etc.).

ITAL 2A. Intermediate Italian. 4 Units
Prerequisite(s): One year college Italian or suitable score on placement exam.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall only

Intermediate course in the Italian language with emphasis on speaking, reading and writing ability; review of grammar; discussions and compositions in Italian. Meets the Foreign Language Graduation Proficiency Requirement.

ITAL 2B. Intermediate Italian. 4 Units
Prerequisite(s): ITAL 2A or suitable score on placement exam.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of ITAL 2A. Meets the Foreign Language Graduation Proficiency Requirement.

ITAL 102. Italian Advanced Conversation. 3 Units
Prerequisite(s): ITAL 2B or instructor permission.
Term Typically Offered: Fall, Spring

Designed to develop oral fluency through free discussion on prepared topics, and supervised practice to develop audio-lingual skills at the advanced level. Course conducted in Italian. May be taken for credit twice.

ITAL 103. Advanced Grammar and Composition. 3 Units
Prerequisite(s): ITAL 2B or equivalent.
Term Typically Offered: Fall, Spring

Study of grammar and style and their application in oral and written exercises, in translations and in compositions.

ITAL 104A. Introduction to Italian Cinema I. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Italian Cinema from the 1940's to its Golden Period in the 1960's through the 1970's. Films will be viewed in their cultural, aesthetic and/or historical context. Readings and guiding questionnaires will help students develop appropriate viewing skills. Films will be shown in Italian with English subtitles.

ITAL 104B. Introduction to Italian Cinema II. 3 Units
Term Typically Offered: Fall, Spring

Focuses on Italian Cinema from the 1980's and the 1990's. The 'New Generation' of Italian Directors will be considered (Nanni Moretti, Gabriele Salvatores, Maurizio Nichetti, Giuseppe Tornatore, Roberto Benigni, Liliani Cavani, Fiorenza Infascelli, Francesca Archibugi, etc.) as well as current productions. Films will be shown in Italian with English subtitles.

ITAL 110. Introduction to Italian Literature I. 3 Units
Prerequisite(s): Upper division status and instructor permission.
Term Typically Offered: Fall only

Beginning and major developments of the literature of Italy from the Middle Ages through the Baroque period of the 17th Century. Analyzes the literary movements with emphasis on their leading figures, discussion of literary subjects, instruction in the preparation of reports on literary, biographical and cultural topics. Taught in Italian.

ITAL 111. Introduction to Italian Literature II. 3 Units
Prerequisite(s): Upper division standing and instructor permission.
Term Typically Offered: Fall, Spring

Major developments in the literature of Italy from the Enlightenment movement of the 18th Century through the 20th Century. Analysis of the literary movements with emphasis on their leading figures, discussion of literary subjects, instruction in the preparation of reports on literary, biographical, and cultural topics. Taught in Italian.

ITAL 130. Italian Civilization: The Dialogue Form It's Origins and European Context. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Focus on Italian civilization in a Mediterranean context. Allows students to develop a critical understanding of the dialogue in the context of Italian and Western Civilization, from its origins in Ancient Egypt and Greece, to its flowering in the Renaissance and its return during the Enlightenment, to its endurance in modern times. Issues emphasized are philosophical and literary movements in their historical contexts. Socratic dialogue and other related genres, the dialogue as a typical Renaissance form with a variety of perspectives (feminine, poetic, satirical, etc.) the Enlightenment thinkers in Italy and France and their modern heritage are studied. Taught in English.

ITAL 131. The Italian Renaissance and Its Influence on Western Civilization. 3 Units
Term Typically Offered: Fall, Spring

Taught in English, explores the phenomenon of the Italian Renaissance in its literary, artistic, religious, social, historical, scientific, and economic aspects through the analysis of the period's major works, and through films, slides, lectures and discussions. The issues to be emphasized are the uniqueness of the Italian contribution to new ideas and values, and their influence on Western Civilization. The students will learn to recognize the sources and the effects of the Italian Renaissance within the integrated context of Western culture and various fields of knowledge.

ITAL 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in Italian and instructor permission.
Term Typically Offered: Fall, Spring

Directed fieldwork in a project which uses the language skills developed through previous study of Italian. The projects may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. Can be taken more than once for credit.
Credit/No Credit

ITAL 195. Fieldwork - Tutoring. 1 - 3 Units
Prerequisite(s): Student with native or near-native fluency in Italian and upper division status; or instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division Italian students, under the supervision of an instructor. Three hours of tutoring per week for each unit.
Note: May be repeated until a maximum of 6 units is reached.

Credit/No Credit

ITAL 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

Japanese (JAPN)

JAPN 1A. Elementary Japanese. 5 Units
Term Typically Offered: Fall only

Develops elementary spoken Japanese, reading and writing in Kana and Kanji, and the practical skills required to effectively use the modern language. Emphasis on the culture, customs, and traditions of Japan.

JAPN 1B. Elementary Japanese. 5 Units
Prerequisite(s): JAPN 1A or instructor permission.
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement
Term Typically Offered: Spring only

Continuation of JAPN 1A, with emphasis on speaking, vocabulary, reading, grammar, speech patterns, and cultural knowledge. The Kana and Kanji writing systems, geography, and aspects of Japanese customs and manners are included.

JAPN 1C. Accelerated Elementary Japanese. 8 Units
This is an intensive introductory Japanese language course equivalent to one year of first-year Japanese (JAPN 1A and JAPN 1B) concentrated in one semester. Class meets four times a week for two hours a period and progresses at an accelerated pace. The course provides a solid foundation in the four language skills--listening, speaking, reading, and writing. In addition, students will acquire cultural knowledge necessary for appropriate communication and smooth functioning in Japanese society. Students enrolling in JAPN 1C must be able to read and write hiragana and katakana, the two basic phonetic syllabaries.

JAPN 2A. Intermediate Japanese. 4 Units
Prerequisite(s): JAPN 1A, JAPN 1B; or equivalent.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall only

Emphasis on speaking, reading, and grammatical skills through dialogues, discussions, and reading. Meets the Foreign Language Graduation Proficiency Requirement.

JAPN 2B. Intermediate Japanese. 4 Units
Prerequisite(s): JAPN 2A or equivalent.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Spring only

Continuation of JAPN 2A. Further development of speaking, reading, grammar, and composition skills. Meets the Foreign Language Graduation Proficiency Requirement.

JAPN 110. Introduction to Japanese Literature. 3 Units
Prerequisite(s): JAPN 2B or instructor permission.
Term Typically Offered: Spring only

Introduction to Japanese literature from the 10th century to the present. The various forms of Japanese classic and contemporary literature will be surveyed through the selective reading of representative works. Class will be conducted in both Japanese and English.

JAPN 116A. Language and Culture of the Japanese and the Japanese in America. 3 Units
Prerequisite(s): JAPN 2B or equivalent.
Term Typically Offered: Fall only

Designed to expose advanced students in Japanese to the practical use of modern Japanese.

JAPN 116B. Language and Culture of the Japanese and the Japanese in America. 3 Units
Prerequisite(s): JAPN 116A or instructor permission.
Term Typically Offered: Spring only

Continuation of JAPN 116A in more advanced modern Japanese.

JAPN 120. Japanese Civilization. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Spring only

A broad survey of Japanese civilization from ancient to contemporary times, focusing on the overarching themes of continuity and change. Exploration includes Japanese geography, traditional aesthetics, warrior ethos, rapid modernization, postwar culture, popular culture, among others. Materials drawn predominantly from the fields of literature, film, and history.

JAPN 128. Introduction to Japanese Popular Culture. 3 Units
Term Typically Offered: Fall, Spring

A survey of major forms of Japanese popular culture from the postwar period to the present with a focus on genre and narrative. Genres include anime, shojo manga, Jpop, popular fiction, and fashion. Among topics to be discussed are common themes, narrative form, global appeal, and fandom. Emphasis on close reading and analysis of the texts/films. No knowledge of Japanese language or culture is required.

JAPN 150. Advanced Japanese Grammar, Conversation. 3 Units
Prerequisite(s): JAPN 2B or instructor permission.
Term Typically Offered: Fall only

Review of general principles of Japanese grammar and study of advanced grammar and their application in oral and written exercises and projects such as speech, presentations, and translations.

JAPN 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in Japanese and instructor permission.
Term Typically Offered: Fall, Spring

Directed fieldwork in a project which uses the language skills developed through previous study of Japanese. The projects may include interpreting and translating for public and/or private agencies in Sacramento or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. Can be taken more than once for credit.
Credit/No Credit

JAPN 195. Fieldwork -- Tutoring. 1 - 3 Units
Prerequisite(s): Advanced students who have native or near native fluency or upper division status, or instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division Japanese students, under the supervision of an instructor. 3 hours of tutoring per week for each unit.
Credit/No Credit

JAPN 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects, or directed reading. Open only to students competent to carry on independent study.
Note: Departmental petition required.

Credit/No Credit

Journalism (JOUR)

JOUR 20. Style For Media Writers. 1 Unit
Term Typically Offered: Fall, Spring

Intensive review of grammar, word use, spelling, and principles of clear, concise writing.
Credit/No Credit

JOUR 30. News Writing. 3 Units
Corequisite(s): JOUR 20.
Term Typically Offered: Fall, Spring

Fundamentals of news gathering and news writing. Emphasis on language and style used in feature and news stories.
Note: Computer familiarity (MAC-OS) recommended.

JOUR 50. Media Literacy and Critical Thinking. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Introduction to reasoning skills useful to the journalism major and general education student alike in interpreting and judging information, entertainment and advertising in the mass media. Emphasis on how to assess the quality of news as information, and on how to think critically about the effects of mass-produced culture.

JOUR 55. Media Communication and Society. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the basic concepts of mass communication, including the effects, uses, and functions associated with the goods and services of mass media. Examination of the ways mass media combine with other institutions to affect the organization, design, and comprehension of communication messages, as well as political thought, cultural beliefs, and economic behavior.
Cross Listed: COMS 55; only one may be counted for credit.

JOUR 116. Data Visualization. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Spring, Summer

Instruction in visualizing datasets using charts, graphs and maps. Students will use spreadsheets to analyze data, along with software and online applications to create data visualizations. Emphasis on visualizations for business, academia and journalism.

JOUR 120. History Of The Media. 3 Units
Prerequisite(s): COMS 55/JOUR 55 or equivalent; may be taken concurrently with prerequisite.
Term Typically Offered: Fall, Spring

Examination of development of major media of mass communication in the U.S. and how the economics, content, regulation and audience use of the media have been affected by the way the media have evolved. Current issues and trends are discussed, as well as possible future development. Cross Listed: COMS 120; only one may be counted for credit.

JOUR 123. Writing for Public Relations. 3 Units
Prerequisite(s): JOUR 30; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
Term Typically Offered: Fall, Spring, Summer

Organization and operation of communication media; practice in publicity and public relations techniques. Emphasis on clear writing and correct public relations formats such as releases, PSAs, articles, and speeches.
Note: Computer familiarity (MAC-OS) recommended. Cross listed: COMS 123

JOUR 125. Multimedia Storytelling. 3 Units
Prerequisite(s): JOUR 30
Term Typically Offered: Fall, Spring

Principles and techniques of reporting and writing news for radio, television, podcasts, social media, and other emerging media platforms. Field and laboratory experience, including basic multimedia story production.

JOUR 128. News Editing. 3 Units
Prerequisite(s): JOUR 20, JOUR 30.
Term Typically Offered: Fall, Spring

Introduction to the role of the editor in contemporary news production. Instruction in story assigning and digital editing, headline/caption writing, photo/visual selection, identifying story treatments, and web tools including search engine optimization and audience analytics. Lab sessions include story/copy editing, fact-checking exercises, headline/caption writing, photo/visual selection, analysis and application of audience metrics in story assignments, and other editorial work.

JOUR 130A. News Reporting I. 3 Units
Prerequisite(s): JOUR 20, JOUR 30.
Corequisite(s): JOUR 130B.
Term Typically Offered: Fall, Spring

Instruction and practice in journalistic research, interviewing, and reporting skills.
Note: Computer familiarity (MAC-OS) recommended.

JOUR 130B. News Reporting II. 3 Units
Prerequisite(s): JOUR 30.
Corequisite(s): JOUR 130A.
Term Typically Offered: Fall, Spring

Practice in covering a news beat, producing news and feature stories on a weekly basis. Instruction includes reporting on local government.

JOUR 131. Data Journalism. 3 Units
Prerequisite(s): JOUR 30; may be taken concurrently.
Term Typically Offered: Fall, Spring

Instruction and practice in finding, analyzing, visualizing and using data for journalism.

JOUR 132. Digital Magazine. 3 Units
Prerequisite(s): JOUR 30 or instructor permission.
Term Typically Offered: Fall, Spring

Conceiving, reporting, and writing feature articles for magazines in print and online. In addition to improving writing skills, students will learn how to identify freelance opportunities, pitch stories, analyze published work, and produce articles for a digital magazine published by the class.

JOUR 134. War, Peace and the Mass Media. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring, Summer

Concerned with the relationship of mass media to war and the possibilities for peace, with emphasis on recent concepts of political communication.
Cross Listed: GOVT 134; only one may be counted for credit.

JOUR 135. Public Affairs Reporting. 3 Units
Prerequisite(s): JOUR 20, JOUR 30, JOUR 130A, JOUR 130B; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Preparation and practice for covering California issues, with a focus on state government and investigative reporting techniques. Culminates with a final project.

JOUR 153. Journalism Law and Ethics. 3 Units
Term Typically Offered: Fall, Spring

Examines the laws, regulations, and ethical principles that govern print, broadcast, and electronic journalism in the U.S. The process by which laws and regulation are enacted and interpreted and the development of socially responsible journalistic practice are discussed.
Cross Listed: COMS 153; only one may be counted for credit

JOUR 158. Public Relations Planning and Management. 3 Units
Prerequisite(s): COMS 118 and JOUR 123 or COMS 123 with grade of 'C-' or better.
Term Typically Offered: Fall, Spring

Application of theoretical concepts to the solution of problems for pre-selected non-profit and campus clients by forming small group PR agencies; completing needs assessments; profiling target and secondary audiences; developing and implementing a strategic public relations plan; producing targeted messages for media kits and other uses; developing and evaluating formative and summative evaluation plans; and making formal in-class presentations to peers, clients and invited PR professionals. Students will also learn how to negotiate contracts, maintain client relations, track work on projects and develop timelines and budgets.
Cross Listed: COMS 158; only one may be counted for credit.

JOUR 172. Women in the Mass Media. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Examination of women's role in the mass media, with particular emphasis on news reporting and advertising. Includes discussion of women's role in media industries. Culminates in a final project.

JOUR 175. Minorities, Social Change and the Press. 3 Units
Term Typically Offered: Fall only

Examination of the relationship between historically underrepresented groups and the news media. Provides a critical analysis and discussion of the role played by the news media in racial, cultural, and social change in the U.S. and explores how the news media can create a more pluralistic society.

JOUR 193. The Media Business. 3 Units
Term Typically Offered: Fall, Spring

Examination of business models and concepts influencing the contemporary news media industry. Study the traditional financial structures of media publications, evaluate opportunities in media entrepreneurship and develop business plans for publications.

JOUR 194. Journalism Related Work Experience. 3 - 6 Units
Term Typically Offered: Fall, Spring

Supervised employment in a company or agency working on journalism-related assignments, arranged through the Department of Communication Studies and the Cooperative Education Program office. Requires preparation of application packet, completion of a 6 month full-time or part-time work assignment, and a written report.
Note: Open only to upper division or graduate students with appropriate course preparation. Units MAY NOT be used to meet the Journalism major or minor. Consent of Communication Studies Department advisor required. No more than 12 units will count toward the degree.

Credit/No Credit

JOUR 195. Internship In Journalism. 1 - 6 Units
Prerequisite(s): JOUR 130A, JOUR 130B and minimum 2.3 overall GPA.
Term Typically Offered: Fall, Spring

Directed work experience through the internship program with public agencies or with journalistic publications, organizations or agencies. Supervision is provided by both the instructional staff and the cooperating agency.
Note: Student must make arrangements with the internship coordinator upon admittance to the course. Limited to Journalism majors and minors and Government-Journalism majors. No more than six units of JOUR 195 may be counted toward the Journalism major.

Credit/No Credit

JOUR 196. Experimental Offerings in Journalism. 3 Units
Term Typically Offered: Fall, Spring

One time and new classes in journalism will be scheduled as needed. 2.0 - 3.0 units

JOUR 196S. Writing for Sports Media. 3 Units
Prerequisite(s): JOUR 30.
Term Typically Offered: Fall, Spring

Fundamentals of gathering, organizing, evaluating and writing sports information in accepted professional style across news media and media relations platforms.

JOUR 197. Journalism Laboratory. 3 Units
Term Typically Offered: Fall, Spring

Working as a staff member of the State Hornet news organization. Roles and responsibilities may include writing, reporting, photography, editing, audio/video production, web layout and design, promotions, marketing, distribution, and/or media business management.
Note: Journalism majors are required to take either JOUR 197A, JOUR 197B, or JOUR 195 Pre-requisite

JOUR 197A. Journalism Laboratory. 3 Units
Prerequisite(s): JOUR 30.
Term Typically Offered: Fall, Spring

Working as a staff member of the State Hornet Newspaper as a writer, photographer, graphic designer or advertising salesperson.
Note: Journalism majors are required to take either JOUR 197A, JOUR 197B, or JOUR 195.

JOUR 199. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual projects or directed reading open to students who wish to attempt independent work. Faculty approval required.
Note: Journalism majors or minors may submit no more than 6 units of JOUR 199 and JOUR 299 toward their degrees.

Credit/No Credit

JOUR 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who are competent to carry on individual work.
Note: Departmental petition required. Journalism majors or minors may submit no more than 6 units of JOUR 199 and 299 toward their degrees.

Credit/No Credit

Kinesiology (KINS)

KINS 4. Beginning Swimming. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Development of physical and mental adjustment to the water. Basic instruction in front crawl, back crawl, elementary backstroke, breast and side strokes and survival is stressed.
Note: May be repeated for credit.

KINS 5. Intermediate Swimming. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Development of physical skills involving strokes, turns, safety and survival techniques.
Note: May be repeated for credit.

KINS 9. Beginning Sailing. 1 Unit
Prerequisite(s): 50 yards swimming ability.
Term Typically Offered: Fall, Spring

Instruction in the fundamentals of sailing including safety and a discussion of terminology and technology of sailing. Additional charge for off-campus services.
Note: May be repeated for credit.

KINS 10. Intermediate Sailing. 1 Unit
Term Typically Offered: Fall, Spring

Continuation of KINS 25, using our fleet of C-15s, Laser and Hobie Turbo 14s. Covers rigging, boating safety, sailing, theory and racing tactics.
Note: May be repeated for credit.

KINS 11. Basic Windsurfing. 1 Unit
Term Typically Offered: Fall, Spring

Introduces the student to the basic fundamentals of windsurfing. Covers rigging, terminology, balance, stance, sail adjustment, safety, rescue skills, and tricks.
Note: May be repeated for credit.

KINS 12. Water Skiing. 1 Unit
Prerequisite(s): 50 yards swimming ability.
Term Typically Offered: Fall, Spring

Basic water skiing, boat and boating safety and in the fundamental skills in water skiing. Additional charge for off-campus services.
Note: May be repeated for credit.

KINS 14. Basic Olympic Rowing. 1 Unit
Term Typically Offered: Fall, Spring

Teaches the novice rower oar control, basic commands, and correct style. Students will begin rowing on a modern eight-oared racing shell and be introduced to the one person rowing single.
Note: May be repeated for credit.

KINS 15. Introduction to Fly Fishing. 1 Unit
Term Typically Offered: Fall, Spring

KINS 15 is a course designed for Sacramento State students of all experience levels to develop proficiency in the sport of fly fishing while promoting an appreciation of the sport as a socio-cultural and lifetime recreational pursuit. Instruction/participation will include, but is not limited to the following topics: conditioning, conservation techniques, equipment use/care/selection, fly casting, aquatic entomology, stream hydrology, interpretation of fly fishing opportunities, fly fishing tactics, basic knots, and field trips to local streams.
Field trip(s) may be required.

KINS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Provides students with the opportunity to interact with fellow classmates and the seminar leader to build a community of academic and personal support.

KINS 22. Creative Aerobic Fitness I. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Provides student with a wide range of flexibility, strength, muscular endurance and creative cardiovascular endurance (aerobic) exercises that promote physical fitness, positive changes in body composition and stress reduction when performed regularly.
Note: May be repeated for credit.

KINS 24. Aqua Aerobics. 1 Unit
Term Typically Offered: Fall, Spring

Using the unique buoyancy and resistance properties of water, the course includes aquatic exercises for flexibility, strength, and cardiovascular endurance to promote general fitness, body conditioning, and stress reduction. As the course will take place in shallow water, swimming proficiency is not required.
Note: May be repeated for credit.

KINS 26. Exercise For Fitness. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Designed to encourage self-improvement through posture evaluation, biomechanic analysis of exercises performed and through participation in varied exercise forms. Students will develop a personalized repertoire of strength, suppleness and stamina exercises calculated to improve possible deficiencies in posture or movement to optimize enjoyment of living.
Note: May be repeated for credit.

KINS 28. Jogging. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Jogging will expose the student to the fundamentals of jogging/running, its potential physiological and sociological benefits as a lifetime activity, fitness testing and individualized conditioning programs.
Note: May be repeated for credit.

KINS 30. Bicycling. 2 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Cycling as a lifetime sport; physiological benefits derived from bicycle riding; individual functional evaluation and conditioning, cycle touring. Lecture one hour; activity two hours.
Note: May be repeated for credit.

KINS 33. Intermediate Weight Training. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Weight training as a lifetime fitness activity; emphasis on going beyond the beginning level through development of an individualized program designed to meet the needs of each individual.
Note: May be repeated for credit.

KINS 36. Beginning Olympic Weight Lifting. 1 Unit
Prerequisite(s): KINS 33 or equivalent.
Term Typically Offered: Fall, Spring

Introduces the lifter to the sport of weight lifting which consists of the two lifts (two hands snatch and the two hands clean and jerk) used in Olympic competition. It includes the complete breakdown of the two lifts, the assistive lifts necessary to learn the parts of the two lifts, and the proper training sequence. The students will also be introduced to training cycles, proper diet, and the use of assistive equipment.
Note: May be repeated for credit.

KINS 40. Tai Chi. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Examines the historical, philosophical, psychological and physiological aspects of Tai Chi. Students will be provided the opportunity to experience a wide range of movement patterns that focus on the integration of mind and body. The form and structure of technique as well as breathing exercises will be included.
Note: May be repeated for credit.

KINS 43. Beginning Tae Kwon Do. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Primary emphasis on throwing, blocking, punching and kicking. The philosophy of Truism and Confucianism is explored.
Note: May be repeated for credit.

KINS 46. Beginning Judo. 1 Unit
Term Typically Offered: Fall, Spring

Instruction in beginning judo tactics including throws and falls, conditioning, and protective devices for self-defense.
Note: May be repeated for credit.

KINS 50. Uechi-Ryu Karate. 1 Unit
Term Typically Offered: Fall, Spring

Examines the historical, philosophical, and physical aspects of Uechi-Ryu Karate. Students will be asked to learn the basic techniques and skills used in this Okinawan system as well as to develop and improve in body strength, flexibility and coordination.
Note: May be repeated for credit.

KINS 56. Beginning Self-Defense for Women. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Prepares women to deal psychologically, sociologically and physically with rape and violent assault. The physical tactics taught are based on the use of hands and feet as weapons. They are simple yet an effective use of one's strength and mental attitude.
Note: May be repeated for credit.

KINS 59. Self Defense and Conditioning. 1 Unit
Term Typically Offered: Fall, Spring

Multifaceted conditioning course that utilizes self defense techniques to develop self discipline, confidence and respect for physical capabilities and limitations of others.
Note: May be repeated for credit.

KINS 63. Beginning Ballroom Dance. 1 Unit
Term Typically Offered: Fall, Spring

Development of proficiency in ballroom dance, including history, vocabulary, ballroom dance etiquette and basic steps for foxtrot, waltz, hustle, cha cha, tango, rhumba, salsa, and merengue.
Note: May be taken for credit more than once for credit.

KINS 72. Beginning Basketball. 1 Unit
Term Typically Offered: Fall, Spring

Development of fundamental skills and tactics of the game, knowledge of basic strategy and rules. Emphasis given to individual and team concepts as they relate to performance and competition.
Note: May be repeated for credit.

KINS 73. Intermediate Basketball. 1 Unit
Term Typically Offered: Fall, Spring

Advancement of basketball skills and strategy. Emphasis is given to individual and team concepts as they relate to performance competition and officiating basketball.
Note: May be repeated for credit.

KINS 75. Beginning Volleyball. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Develop basic skills, basic offensive and defensive systems of team play, basic strategies and rules. Emphasis on team work and developing supportive attitudes and behavior which encourages continued involvement in volleyball as a physical activity.
Note: May be repeated for credit.

KINS 79. Beginning Soccer. 1 Unit
Term Typically Offered: Fall, Spring

Development of basic skills of ball handling, passing, dribbling, trapping, tackling, individual and team tactics and strategies; rules interpretation and officiating; promotion of bio-psychosocial well being.
Note: May be repeated for credit.

KINS 83. Beginning Golf. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Development of sufficient basic proficiency in golf to recognize and enjoy it as a lifetime activity; including U.S.G.A. rules, etiquette and the fundamental mechanics involved in the use of irons and woods.
Note: May be repeated for credit.

KINS 86. Beginning Tennis. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Development toward proficiency in tennis, including basic court skills, knowledge, and elementary strategies. Development of enjoyable and appropriate cooperative and competitive modes of behavior, including etiquette and self-awareness. Attention is given to healthful approaches to vigorous lifetime physical activity.
Note: May be repeated for credit.

KINS 87. Intermediate Tennis. 1 Unit
Term Typically Offered: Fall, Spring

Development and refinement of skills at the intermediate level in all strokes. Development and refinement of playing techniques and strategies. Learning how to enjoy competitive situations and to relate well to others in competition. Adjustment to stressful competitive conditions and improvement of personal responses under stress.
Note: May be repeated for credit.

KINS 89. Beginning Badminton. 1 Unit
Term Typically Offered: Fall, Spring

Development of fundamentals in badminton including beginning skills, offensive and defensive tactics and strategy; singles, doubles and mixed doubles tournament play.
Note: May be repeated for credit.

KINS 90. Intermediate Badminton. 1 Unit
Term Typically Offered: Fall, Spring

Development of movement skills, strokes, tactics in singles and doubles at a more advanced level. Emphasis on 'cut' or deceptive strokes, rotation or diagonal system of doubles play, increased ability to move on the court, application of laws to move difficult playing situations. Singles, doubles and mixed doubles play in tournaments.
Note: May be repeated for credit.

KINS 91. Alpine Skiing and Snowboarding. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Designed to develop proficiency at all skill levels of alpine skiing, beginner through expert, while promoting appreciation of the sport as socio cultural phenomena and lifetime pursuits. Sessions will take place at a scheduled Sierra ski area as well as on campus. Additional fee.
Note: May be repeated for credit.

KINS 92. Beginning Racquetball. 1 Unit
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Fundamental theory and practice of the game of racquetball including service, receiving the service, back wall play, basic shots, variations, court positioning and general tactics; history rules, and safety precautions.

KINS 93. Intermediate Racquetball. 1 Unit
Term Typically Offered: Fall, Spring

Development of proficiency at the intermediate level. Includes service and return, backwall play, offensive and defensive shots with emphasis on techniques, strategy and tactics of competition.
Note: May be repeated for credit.

KINS 99. Exercise for Healthy Living. 2 Units
Corequisite(s): One unit skill or fitness class; may be taken concurrently.
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Exposes students to a broad range of information related to the understanding and development of personal fitness and health, including psycho-social well-being. Examines the elements of exercise, nutrition, and stress management as they relate to healthful living. Students will explore a variety of personal choices and the options for developing and maintaining lifetime wellness.

KINS 101. Introduction to Kinesiology. 2 Units
Term Typically Offered: Fall, Spring

KINS 101 is an introduction to the study of human movement, including its role in daily life and its place in higher education. Career opportunities related to sport, movement, exercise, and fitness will be examined. Students in this course will explore various educational pathways, requirements, and professional opportunities in the sub-disciplines of Kinesiology.

KINS 106C. Advanced Weight Training. 1 Unit
Term Typically Offered: Fall, Spring

Advanced instruction in weight lifting including Olympic weight lifting, power lifting, body building, lifting for athletic competition and lifting for physical fitness.

KINS 110. Women and Sport. 3 Units
Term Typically Offered: Fall, Spring

Role of women in sport; an inquiry into traditional and contemporary attitudes and practices regarding the woman's role in the sporting world.

KINS 118A. Martial Arts: Karate. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Explores the ancient tradition of the Asian martial arts in conjunction with actual participation in a selected martial arts course. Asks the student to critically examine the cultural contributions of specific Asian communities such as Japan, China, and Korea, to the Martial Arts as practiced in the U.S.

KINS 118B. Martial Arts: Tae Kwon Do. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Humanities (Area C2)

Term Typically Offered: Fall, Spring

KINS 118C. Martial Arts: Tai Chi. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2), Race & Ethnicity Graduation Requirement (RE)

Term Typically Offered: Fall, Spring

KINS 120. Strength and Conditioning. 3 Units
Prerequisite(s): Restricted to Kinesiology, Pre-Exercise Science, or instructor approval.
Term Typically Offered: Fall, Spring

The course is designed to introduce students, persons interested in the personal training field, strength & conditioning and/or prospective coaches at the high school, college, or professional level, public, private settings to what are commonly referred to as training units. These training units are part of the total training program an individual/student/athlete would use to prepare for participation in fitness activity or sport. Included are practical hands-on participatory experiences, program design strategy and practical field tests.

KINS 121. Peak Performance Through Psychological Skills. 3 Units
Term Typically Offered: Fall only

Examination of, and practical experience in, techniques for maximizing sport and creative performance through the development of mental skills and strategies for stress control, imagery, goal setting, and concentration.

KINS 122B. Cardiopulmonary Resuscitation. 1 Unit
Term Typically Offered: Fall, Spring

Designed to meet American Red Cross or American Heart Association Certification in CPR.
Note: May be repeated for credit.

Credit/No Credit

KINS 130. Elementary Physical Education Curriculum and Content. 3 Units
Prerequisite(s): KINS 138; Restricted to junior or senior Kinesiology majors-Physical Education concentration.
Term Typically Offered: Spring only

Overview of the total elementary physical education curriculum. Designed specifically for physical education concentration students. The primary focus will be placed on cooperative activities, movement education, development of locomotor, non-locomotor, manipulative skills, perceptual motor activities, fitness, games, and the correlation of classroom subjects with physical education. Introduces students to developmentally and instructionally appropriate physical education for children. Students will be able to develop a scope and sequence for an elementary physical education curriculum.

KINS 131. Secondary Physical Education Curriculum. 2 Units
Prerequisite(s): KINS 138; Kinesiology major - Physical Education concentration students only.
Term Typically Offered: Fall only

Designed for senior level students in the Kinesiology major, Physical Education Option, Credential Concentration who wish to deliver an effective, meaningful physical education curriculum to diverse students. Covers curriculum components that include content, content organization, distinctive curriculum models and aspects of curriculum application. Students will learn how to sustain a positive learning experience, conceive and plan meaningful curricula for school based instruction, and to link the school program to opportunities for adolescents outside of school.

KINS 132. Planning, Designing and Managing a Fitness Center. 3 Units
Term Typically Offered: Fall, Spring

Designed to provide students with the basic guidelines for starting and managing multiple health and fitness centers in the private setting; focus on initial start-up of a health and fitness center and operating procedures with emphasis on equipment selection and arrangement, employee training, program planning for safe and optimally beneficial health and fitness results.

KINS 133. Integration of Concepts. 3 Units
Prerequisite(s): KINS PETE or PACC majors only; and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Critical perspective of how theoretical concepts and integrated knowledge can be applied to various aspects of physical education, sport, and physical activity. Emphasis is on a coherent understanding of the interrelationships that exist in the subdisciplines of kinesiology and other related subject areas. Capstone experience for students in the Physical Education Concentration; must be taken during the final semester of the student's plan of study.

KINS 134. History and Philosophy of Physical Education and Sport. 3 Units
Prerequisite(s): KINS 101. KINS 101 may be taken concurrently.
Term Typically Offered: Fall, Spring

Examination of historical events in physical education and sport; examination of how these historical events have influenced the varying philosophies of physical education, sport, and physical activity, past and present; identification of societal forces in cultures which lead to philosophical beliefs and concepts relative to the structure of the disciplines of physical education, sport, and physical activity.

KINS 135. Assessment Strategies in Physical Education. 3 Units
Term Typically Offered: Fall, Spring

Selection, analysis, construction and administration of norm-referenced and criterion-referenced tests used for formative and summative evaluation in the physical education public school setting. Includes both traditional and alternative assessment strategies. Computers are used for data collection, development of assessment instruments, development of grading programs, and for descriptive statistical analysis.

KINS 136. Sport And Aging. 3 Units
Term Typically Offered: Fall, Spring

Considers the positive and negative aspects of vigorous exercise and/or sport activity throughout the aging process. Included will be inquiry into the opportunities for activity among adults over the age of thirty, through the active career years, and beyond.

KINS 137. Sociology Of Sport. 3 Units
Prerequisite(s): KINS 101. KINS 101 may be taken concurrently.
Term Typically Offered: Fall, Spring

Analyzes sport as a social institution and the interrelations between sport and societal subsystems. Consideration of the attitudes, values, and behaviors associated with sport. Analyzes contemporary problems associated with sport: race relations, the traditional and emergent role of women, leisure behavior, aggression and violence, and political and economic concerns. Analyzes a sociological problem within the context of sport.

KINS 138. Sport Pedagogy. 3 Units
Prerequisite(s): Kinesiology Majors, Minors and Liberal Studies PE Concentration.
Term Typically Offered: Fall, Spring

Sport pedagogy examines learning, teaching and instruction in sport, physical education and related areas of physical activity. Content is focused on differentiated instructional strategies, effective teaching and learning skills, designing instructional plans, managerial behaviors, organizational arrangements, communication skills, and professionalism.

KINS 139. Leadership and Communication. 3 Units
Term Typically Offered: Fall, Spring

Social actions and behavioral patterns as influenced by the communication process; experiential approaches to techniques of interpersonal and small group relationships and leadership; the constantly evolving communication media as instruments of behavioral change.

KINS 141. PRO ACT I - Dual Sports. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Fall only

Designed to prepare physical education students to analyze and teach developmentally appropriate activities designed for dual participation in the public school setting. Student will be given opportunity to learn and apply the basic techniques of tennis, badminton and pickleball as well as the offensive and defensive net strategies for game play. Emphasis will be given to skill acquisition analysis.

KINS 142. Professional Activities II - Creative Movement and Dance. 3 Units
Prerequisite(s): KINS 138
Term Typically Offered: Spring only

Students will develop an understanding of the content specific to the design and delivery of educational gymnastics and rhythm/dance activities in a K-12 setting. Gymnastics components include: skills, appropriate progressions, spotting techniques, safety and methods of organization. Rhythm and dance will include basic locomotive skill development; basic rhythm activities; and contemporary, line, square, round, contra, folk, country and Western and social/ballroom dance. Historical and multicultural concepts related to dance are also included.

KINS 144. Analysis of Weight Training & Muscular Fitness. 2 Units
Prerequisite(s): Restricted to Kinesiology, Pre-Exercise Science, Coaching Minor or instructor approval
Term Typically Offered: Fall, Spring

The course is designed to prepare students to teach, design, and implement strength/conditioning for various fitness/athletic populations. Included are skill techniques, skill analysis, class/group organization, equipment analysis, muscular fitness related to athletics, fitness, rehabilitation, and other factors related to effective teaching of muscular fitness in high school, college, private, public and corporate settings. Emphasis is on kinesiology/biomechanics principles, human anatomy, and physiological adaptations to the various strength/conditioning for fitness/athletic training covered in the course.

KINS 145. Pro Act III - Team Sports. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Fall only

This is an introductory course designed for students within the Kinesiology Major Physical Education Concentration to analyze the teaching of field sports in secondary school settings. This course provides the student the opportunity to learn basic techniques, strategies, and rules of flag football, volleyball, softball, soccer and basketball. Emphasis will be given to skill performance, skill development, teaching methodology, skill analysis, lead-up activities, and sport participation.

KINS 146. PRO ACT IV Individual Sports. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Spring only

Designed to prepare physical education students to analyze and teach developmentally appropriate activities designed for individual participation in the public school setting. Student will be given the opportunity to learn and apply the basic techniques of golf, track and field and aquatics as well as the strategies necessary for effective participation. Emphasis will be given to skill acquisition and analysis.

KINS 148. ProAct V - Nontraditional Games and Sports. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Fall only

Students will develop an understanding of the content specific to the design and delivery of non-traditional games and sports. Instruction will focus on performance, skill analysis, methods of teaching, strategies for instruction, and evaluation of skills in K-12 settings. The students will be introduced to a variety of nontraditional games and outdoor activities, as well non-traditional team sports including Lacrosse, Ultimate Frisbee, Speedball, Team Handball, and Field Hockey.

KINS 149. Professional Activities of Health and Skill Related Fitness. 3 Units
Prerequisite(s): KINS 138
Corequisite(s): KINS 138
Term Typically Offered: Spring only

Students will develop an understanding of the content specific to the design/delivery of a variety of innovative fitness/wellness learning experiences for individuals in K-12 settings. Emphasis will be placed on movement and its relationship to the components of health fitness when pursuing and promoting a physically active lifestyle. Students will develop skills in assessing fitness levels and implementing strategies for supporting positive behaviors and attitudes toward fitness/wellness for individuals from diverse populations.

KINS 150. Exercise and Sport Physiology. 3 Units
Prerequisite(s): BIO 30 or BIO 26 or equivalent
General Education Area/Graduation Requirement: Laboratory (B3), Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Sports physiology with special emphasis on studying the various systems in the body that are involved in work, exercise and sport. Training programs to improve these systems and their responses will be discussed in a wide variety of settings including exercise for health, fitness, recreation, and sports competition. Lecture two hours; laboratory three hours.
Note: Does not satisfy exercise physiology requirement for Exercise Science majors.

KINS 151. Kinesiology. 3 Units
Prerequisite(s): BIO 22 or equivalent.
Term Typically Offered: Fall, Spring

Anatomical concepts and physical laws as applied to human movement emphasizing the effects of individual and environmental variables. Includes analysis of normal and pathological gait. Lecture two hours; laboratory three hours.

KINS 151A. Biomechanics. 3 Units
Prerequisite(s): KINS 151.
Term Typically Offered: Fall, Spring

Introduction to fundamental mechanical concepts as they apply to human movement. A broad range of human movement will be explored including activities from sport, industrial settings, normal and pathological locomotory skills, and movements involved in manipulating the environment in which we live. Laws of physics, mechanical principles and mathematical concepts will be integrated in studying man as a biological entity. Lecture two hours; laboratory three hours.

KINS 151B. Biomechanics II. 3 Units
Prerequisite(s): BIO 10, BIO 22, KINS 151, and KINS 151A
Term Typically Offered: Fall, Spring

The study of biomechanical theory in regards to quantifying and analyzing human movement. Human movement will be examined from an advanced perspective, including tissue mechanics, the pathomechanics of chronic disease, and exercise and sport performance.

KINS 151C. Dance Kinesiology. 3 Units
Prerequisite(s): BIO 22 or equivalent.
Term Typically Offered: Fall, Spring

Human musculoskeletal and neurological systems, energy production, and biomechanical interrelationships of human motion applied to dance. Emphasis on the nervous, muscular and tendinous structures and the mechanical function of levers and force application and injury prevention for the dancer.

KINS 151D. Applied Kinesiology and Biomechanics. 3 Units
Prerequisite(s): BIO 26 with a grade of C or better.
Term Typically Offered: Fall, Spring

Fundamentals of human movement patterns with an emphasis on applied anatomy, movement principles, movement sequences, applied biomechanics, developmental motor stages and basic movement analysis.
Note: Does not satisfy kinesiology or biomechanics requirements for Exercise Science majors.

KINS 152. Physiology Of Exercise. 3 Units
Prerequisite(s): CHEM 1B or CHEM 6B and BIO 131
Term Typically Offered: Fall, Spring

Study of circulatory, respiratory and metabolic response to exercise in humans under various physiological and ambient conditions. Lecture 2 hours; laboratory 2.5 hours.

KINS 152A. Fundamentals of Exercise Programs. 3 Units
Prerequisite(s): KINS 152.
Term Typically Offered: Fall, Spring

Study of current training programs used in different types of activity. Emphasis will be placed on specific training techniques, nutritional needs, methods of testing/evaluating, and special considerations needed for various populations.

KINS 152B. Exercise Physiology of Women. 2 Units
Term Typically Offered: Fall, Spring

Examines the general physiology of women, how physical activity affects women's physiological functions, and how physiological functions affect women in sport and exercise performance. A comprehensive review of scientific literature is included.

KINS 152C. Prolonged Exercise. 2 Units
Prerequisite(s): An introductory college biology or zoology course.
Term Typically Offered: Fall, Spring

Extensive review of the energy metabolism, cardiovascular and pulmonary function, endocrine response, nutritional need, training effect, and biochemical response to prolonged exercise of 1-6 hours in duration.

KINS 152D. Blood Lactate and Exercise. 2 Units
Prerequisite(s): KINS 152.
Term Typically Offered: Fall, Spring

Reviews the basic aspects of lactate formation, release, and uptake by skeletal muscle and blood during exercise and training. Presents recent clinical and research findings related to physical performance.

KINS 152S. Energy Production & Sports Performance. 3 Units
Prerequisite(s): KINS 152 and co-enrollment in KINS 153 or Instructor Permission Recommended: FACS 10 & FACS 113
Term Typically Offered: Fall, Spring

Study of ergogenic aids, exercise nutrition and exercise performance enhancing drugs/supplements and their physiological effects on energy production and exercise performance. Lecture: 3 hours

KINS 153. Cardiovascular Testing and Exercise Prescription. 3 Units
Prerequisite(s): KINS 152 or instructor permission.
Term Typically Offered: Fall, Spring

Designed to train exercise leaders, exercise test technologists, and exercise program directors. Focus is upon development of basic skills, both administrative and technical, needed to develop a program of graded exercise testing and exercise prescription for asymptomatic and symptomatic populations. Lecture two hours; laboratory three hours.

KINS 153C. Cardiac Rehabilitation & Exercise Electrocardiography. 3 Units
Prerequisite(s): KINS 153 or Instructor Permission
Term Typically Offered: Fall, Spring

Study of cardiac rehabilitation and exercise electrocardiography, reviews clinical pathophysiology and ECG abnormalities during rest, exercise stress testing and cardiac rehabilitation. Lecture 3 hours.

KINS 154A. Principles and Techniques in a Clinical Setting. 3 Units
Prerequisite(s): Athletic Training or Kinesiology majors only; instructor permission
Term Typically Offered: Fall, Spring

Introduction to professional ethics and attire, the allied health care system, patient transfers, wheelchair and ambulation aids, medical terminology and record keeping. Fundamental principles and concepts underlying the therapeutic application of modalities, including methods of administering heat, cold, electricity, sound, light and water are covered.

KINS 154B. Management and Health Care Administration in Athletic Training. 3 Units
Prerequisite(s): Instructor permission only
Term Typically Offered: Fall, Spring

Organization, management and health care administration of athletic training programs. Includes communication skills, budget, facility design and management, legal aspects, drug testing, education, computer use, insurance and record keeping, personnel development (job search, CEUs, licensure), professional and governing organizations, athletic training reporting systems, emergency action plans, blood borne pathogen procedures, preparticipation exam management, health care issues and fundraising.

KINS 154C. Therapeutic Modalities Laboratory. 1 Unit
Prerequisite(s): BIO 22 or BIO 26, and KINS 154A, and KINS 156, and instructor permission.
Term Typically Offered: Fall, Spring

Techniques and clinical skills in the treatment of injuries using therapeutic modalities. Hands-on experience in the clinical application of contemporary therapeutic modalities (electrotherapeutic modalities, hydrotherapeutic modalities, cryotherapy, radiant energy, paraffin, intermittent compression units, traction units, massage) including patient preparation, set-up, dosage determination and operational procedures. Lab two hours.

KINS 155A. Clinical Evaluation of the Upper Extremity. 2 Units
Prerequisite(s): BIO 22 or BIO 26 or Equivalent and KINS 156.
Term Typically Offered: Fall, Spring

Analyzes and performance of evaluation procedures of the upper extremity, head and spine. Includes the development of skills in a patient interviewing, palpation methods, manual muscle testing, neurological and orthopedic assessments and special tests.

KINS 155B. Clinical Evaluation of the Lower Extremity. 2 Units
Prerequisite(s): BIO 22 or BIO 26, KINS 154A, KINS 156.
Term Typically Offered: Fall, Spring

Analyzes and performance of evaluation procedures of the lower extremity, trunk and low back. Includes the development of skills in patient interviewing, palpation methods, manual muscle testing, neurological and orthopedic assessments and special tests.

KINS 156. Care Of Athletic Injuries. 3 Units
Term Typically Offered: Fall, Spring

Application and methods of caring for and preventing athletic injuries through strapping, padding, conditioning, etc.; practical application of first aid and a basic introduction to treatment and rehabilitation of common athletic injuries.

KINS 156A. Emergency Response. 2 Units
Term Typically Offered: Fall, Spring

Underlying principles and applied techniques of first aid. Meets the requirements for the Emergency Response and CPR for the Professional Rescuer certificates of the American Red Cross. Lecture one hour, laboratory two hours.

KINS 157. Therapeutic Exercise. 3 Units
Prerequisite(s): BIO 22 or BIO 26; KINS 151 or KINS 151D; and KINS 155A or KINS 155B
Term Typically Offered: Fall, Spring

Biomechanical principles in the prescription of musculoskeletal rehabilitation exercises. Topics include passive, active and resistive range of motion, manual muscle testing, and exercises for strength, stamina and suppleness for every part of the body.

KINS 158. Motor Learning and Control. 3 Units
Prerequisite(s): BIO 26 or BIO 131 or equivalent
Term Typically Offered: Fall, Spring

Study of the motor and cognitive characteristics of individuals involved in learning and controlling motion skills and the conditions that can influence that learning and control. Lecture two hours; laboratory three hours.

KINS 160. Sport and Exercise Psychology. 3 Units
Term Typically Offered: Fall, Spring

Application of research findings as they apply to psychological performance factors in sport, physical education and exercise settings, such as motivation/adherence, stress management, personality and psychological skills training.

KINS 161. Theory of Sport and Fitness Management. 3 Units
Term Typically Offered: Fall only

This course is designed to introduce students to the basic theory underlying the multiple components of the sport and fitness industry. Fundamental concepts and theories of sports and fitness management will be applied to various segments of the sports industry: professional sports, collegiate sports, community sports and recreation, intramural sports and corporate fitness.

KINS 165. Theory of Coaching. 3 Units
Term Typically Offered: Spring only

Students will be introduced to coaching theory as it relates to developing leadership skills to work with athletes, and teams in the context of organized sport. Topics will include motivation, self-esteem, leadership, communication, competition and cooperation, team management, and optimal performance skills (goal setting, concentration, composure, recovery from mistakes/loss, consistency, and stress management).

KINS 166. Ethics, Inclusion and Equity in Coaching. 3 Units
Term Typically Offered: Fall only

This course educates future coaches on the moral and ethical dilemmas typically encountered in competitive athletics. Students will also develop strategies to address various forms of exclusion and inequity in sports and athletics.

KINS 167. The African American Sport Experience. 3 Units
Term Typically Offered: Fall, Spring

Examination of the experiences of the African American athlete in sport and society, from the period of enslavement to the contemporary era. Topics include gender experiences, intercollegiate experiences, professional sport, and the Olympic games, as well as the interconnections between African American communities and the role of sport. The experiences of African Americans will be compared to those of other ethnic and cultural groups.

KINS 168. Sport and Film. 3 Units
Term Typically Offered: Fall, Spring

This course uses sport films to examine relationships of power in society and the way those relationships are contested and often reinforced. Particular attention will be paid to cultural tensions and negotiations around issues related to race, gender, class, and sexuality. This course utilizes films, with accompanying readings, to understand the institution of sport in American culture, as well to understand how sport is setting where issues of race, class, gender, religion, ability/disability, and sexuality are contested and reinforced.

KINS 169. The Modern Olympic Games. 3 Units
Term Typically Offered: Fall, Spring

A study of the historical development of the modern Olympic Games. Areas covered include politics, nationalism, commercialism, marketing and amateurism. The contribution of athletes and administrators who have help shape the Olympic tradition will be assessed.

KINS 171. Adapted Physical Education: Basic Skill/Fitness Activities and Assessment. 3 Units
Prerequisite(s): KINS 177.
Term Typically Offered: Fall, Spring

Development of competencies for planning, developing, and evaluating effective skill and fitness activities for students with disabilities. Emphasis will be placed on basic skill development, fitness and traditional and alternative assessment strategies and postures assessment and programming for students with disabilities. Information regarding the application of specific standardized assessment instruments for placement decisions will be examined. Students will be required to participate in 15 hours of service learning. Class meets for 2 hours lecture and 2 hours activity.

KINS 172. Movement Education. 3 Units
Prerequisite(s): Liberal Studies or Child Development majors only, or instructor permission
Term Typically Offered: Fall, Spring

Examination of activities and theoretical concepts that relate to the physical, social, emotional and intellectual development of the individual. Content includes: health-related physical fitness, movement concepts, stability, locomotor and manipulative skills, rhythms and dance, gymnastics, games and sport activities.

KINS 176. Perceptual Motor Development. 3 Units
Term Typically Offered: Fall, Spring

Study of the genetic, prenatal, perinatal and postnatal factors affecting the sequential perceptual motor development of children. Inquiry is made into reflexes, sensory motor testing and stimulation, perceptual motor testing and remedial activities in motor development.

KINS 177. Introduction to Adapted Physical Education. 3 Units
Term Typically Offered: Spring only

Historical and philosophical bases for adapted physical education, including the development and management of programs with emphasis on the psychomotor, affective and cognitive domains. The impact of federal and state legislation, legal liability and special health and safety problems will be studied in relationship to the role of the adapted physical education teacher, the interdisciplinary team, the parent and the pupil.

KINS 179. Adapted Physical Education: Program Planning. 3 Units
Prerequisite(s): KINS 171 and KINS 177.
Term Typically Offered: Fall, Spring

Study of the variables in physical education curriculum and program planning - assessment, goals and objectives, development of program content, and evaluation - as related to individuals with disabilities.

KINS 194A. Assigned Field Experience in Kinesiology. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned experience in Kinesiology. Students keep records of daily experiences and prepare periodic progress reports. Students receive one unit of credit for three hours per week for one semester of field experience.
Note: Registration requires prior approval of the department coordinator. May be repeated for a total of five units.

Credit/No Credit

KINS 194B. Assigned Internship in Exercise Science. 1 - 3 Units
Prerequisite(s): KINS 151 and/or KINS 152; or instructor permission.
Term Typically Offered: Fall, Spring

Assigned internship other than in the Human Performance Lab. The student will assist in laboratory experiments and other special procedures; will learn the operation of equipment and sequentially will be expected to administer tests and interpret the results. Interns will be expected to attend monthly conferences.
Note: May be repeated for a total of 3 units.

Credit/No Credit

KINS 194C. Assigned Field Experiences in Pre-Physical Therapy. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned experience under the direction of a physical therapist. Students keep records of their experiences. Registration requires prior approval of the pre-physical therapy coordinator.
Note: May be repeated up to a total of 6 units. Open to Physical Education majors in the pre-physical therapy option.

Credit/No Credit

KINS 194D. Assigned Field Experience in Coaching. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned experience in coaching (two hours daily for the full schedule of the sport for two units of credit). Students keep records of daily experiences and prepare periodic progress reports. Succeeding enrollments should be in different sports.
Note: May be repeated for a total of 6 units.

Credit/No Credit

KINS 194E. Assigned Internship in Adapted Physical Education. 1 - 3 Units
Prerequisite(s): Any two of the following: KINS 171, KINS 176, KINS 177, or KINS 179; permission of adapted credential advisor.
Term Typically Offered: Fall, Spring

Assigned experience in the conduct of Adapted Physical Education Programs. Students will keep records of their experiences. Three clock hours per week per unit of credit. Credential candidates may not use in lieu of Phase III requirements.
Note: May be repeated up to six times for credit for a maximum of 6 units.

Credit/No Credit

KINS 194F. Assigned Field Experience in Allied Health. 1 - 3 Units
Term Typically Offered: Fall, Spring

Practical experience in Occupational Therapy, Chiropractic or other allied health professions. Students keep records of their experiences while working under the direct supervision of a licensed clinician. Registration requires prior approval of a Pre-Physical Therapy advisor.
Note: May be repeated up to a total of 6 units.

Credit/No Credit

KINS 194G. Assigned Professional Experience. 1 - 2 Units
Term Typically Offered: Fall, Spring

Assigned professional experience in organization and evaluation of physical education, athletic training, exercise or pre-therapy. Students work closely with a Sacramento State faculty member and receive one unit of credit for three hours of work per week for one semester.
Note: May be repeated for a total of 3 units toward graduation. These units may not be applied to the major.

Credit/No Credit

KINS 194H. Assigned Field Experience in Athletic Training. 1 - 3 Units
Prerequisite(s): Instructor's permission only
Term Typically Offered: Fall, Spring

Practical experience in athletic training under the direct supervision of an NATA Certified Athletic Trainer in one of the following settings: professional athletics, high school, clinic, industrial or private business.
Note: Registration requires prior approval of the program director. May be repeated up to a total of 3 units.

Credit/No Credit

KINS 195A. Directed Field Experience in Kinesiology. 1 - 2 Units
Term Typically Offered: Fall, Spring

Directed experience in the conduct of physical education. Students keep records of daily experiences and prepare periodic progress reports. Students receive one unit of credit three hours per week for one semester of field experience.
Note: Registration requires prior approval of the department coordinator. May be repeated for a total of 5 units.

Credit/No Credit

KINS 195B. Directed Internship in Exercise Science. 1 - 3 Units
Prerequisite(s): KINS 151 and/or KINS 152; or instructor permission.
Term Typically Offered: Fall, Spring

Directed internship in the Human Performance Laboratory under the supervision of one or more members of the faculty. The student will assist in laboratory experiments and other special procedures; will learn the operation of equipment and sequentially will be expected to administer tests and interpret the results. Interns will be expected to attend monthly conferences.
Note: May be repeated for a total of 3 units.

Credit/No Credit

KINS 195C. Directed Observation in Athletic Training. 1 - 2 Units
Prerequisite(s): Requires prior approval of Program Director
Term Typically Offered: Fall, Spring

Planned student observation of the health care practices of the Athletic Trainer and other sports medicine personnel in a clinical setting. Selected NATA competencies may be completed on site. 60 hours per unit. .
Note: May be repeated for up to 4 units total credit.

Credit/No Credit

KINS 195D. Practicum in Athletic Training. 4 Units
Prerequisite(s): Instructor's permission only
Term Typically Offered: Fall, Spring

Supervised athletic training experience in the athletic training room under the direct supervision of a Certified Athletic Trainer. Included are a series of guest lecturers from the medical and paramedical field presenting lectures and demonstrations on topics in sports medicine. 300 hours plus all lectures are 4 units.
Note: Can be taken a minimum of four times and maximum of five times for credit, with the total units not to exceed 20 units.

Credit/No Credit

KINS 196. Experimental Offerings in Kinesiology. 2 - 3 Units
Term Typically Offered: Fall, Spring

Guided study and discussion of problems and topics in kinesiology. Supplemental readings, reports, and term projects are included. Proseminars dealing with specific topics or problems will be scheduled when the need exists.
Note: May be repeated for credit up to three times for credit.

KINS 196F. Therapeutic Exercise for Chronic Conditions. 3 Units
Prerequisite(s): Bio 22 or equivalent
Term Typically Offered: Fall, Spring

This course is designed to develop knowledge of fundamental disease processes in common chronic conditions and related exercise management. The general concepts of common chronic disease, including etiology, pathogenesis, morphology, co-morbidities and basic exercise prescription will be investigated.

KINS 196G. Sleep, Health and Athletic Performance. 3 Units
Term Typically Offered: Fall, Spring

This course is designed to introduce concepts related to sleep, circadian rhythm, human physiology, and behavior as they impact physical function, health and athletic performance. Concepts related to sleep, sleep deprivation, cognitive function, and learning outcomes in college students will be investigated. Students will have an opportunity to learn about devices used to collect data and analyze individual sleep patterns.

KINS 198A. Seminar in Physical Education - Elementary. 2 Units
Prerequisite(s): KINS 381 and EDTE 474A.
Corequisite(s): KINS 380 and EDTE 474B.
Term Typically Offered: Fall, Spring

Open to physical education single subject credential candidates this course accompanies an eight-week elementary student teaching experience. The focus is twofold: a) engage student teachers in the planning, instruction and assessment of an elementary physical education program aligned with state standards b) support student teachers with the Performance Assessment for California Teachers (PACT). Candidates will be expected to create a class environment that ensures the safe and productive participation in developmentally appropriate elementary physical education.

KINS 198B. Seminar in Physical Education - Secondary. 1 Unit
Prerequisite(s): KINS 198A.
Corequisite(s): EDTE 474B.
Term Typically Offered: Fall, Spring

Open to physical education single subject credential candidates this eight-week course accompanies an eight-week secondary student teaching experience. The focus is twofold: a) engage student teachers in the planning, instruction and assessment of a secondary physical education program aligned with state standards b) support student teachers with the Performance Assessment for California Teachers (PACT). Candidates will be expected to create a class environment that ensures the safe and productive participation in developmentally appropriate secondary physical education.

KINS 199. Directed Individual Study. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual research, project or directed reading. Open only to majors who appear competent to carry on individual work. Approval of the faculty under whom the individual work is to be conducted, and approval of the Department Chair required. Formal written report required.
Note: May be repeated for credit.

Credit/No Credit

KINS 203. Specificity of Conditioning. 3 Units
Term Typically Offered: Fall, Spring

Survey of current research in training regimen of conditioning programs designed to optimize physical conditioning in preparation for specific athletic competitions.

KINS 209. Graduate Studies in Kinesiology. 3 Units
Term Typically Offered: Fall, Spring

An overview of the varied subdisciplines, such as sport pedagogy, motor learning, strength and conditioning, sport psychology, cultural studies of sport, exercise physiology, and biomechanics. Students will read research from each subdiscipline and be able to make interdisciplinary connections.

KINS 210. Research Methods in Kinesiology. 3 Units
Term Typically Offered: Fall, Spring

Various methods and techniques of educational research as they are commonly applied in the field of Kinesiology; study of examples of their use in published research; practice in applying them to problems of interest to the student; analyzing data and writing research reports.

KINS 211. Research Seminar. 1 Unit
Term Typically Offered: Fall, Spring

Students develop and defend research proposals. Students registering for KINS 500 for the first time must register for KINS 211 concurrently.
Note: Student must re-enroll if proposal is not completed and accepted during the first registration

Credit/No Credit

KINS 236. Sport and Society. 3 Units
Term Typically Offered: Fall, Spring

Society and the institution of sport interact in a variety of ways. Students are given the opportunity to investigate and discuss in-depth a wide range of topics linking sport and society. Among these topics are violence and aggression, politics, racism, sexism, counter-cultures, mass media and the future of sport. The application of research to the real world is an integral part of the course.

KINS 245. Administration of Physical Education and Athletics. 3 Units
Term Typically Offered: Fall, Spring

The organization and administration of physical education and athletic programs and the functional considerations involved. Primary areas include: personnel, curriculum, budgeting, contract management, public relations, liability and safety, critical issues, and procedures essential to quality programs.

KINS 250. Advanced Exercise Physiology Laboratory. 3 Units
Prerequisite(s): KINS 152 or instructor permission.
Term Typically Offered: Fall, Spring

Describes, explains, and practices the application of selected measurement techniques in the laboratory as they relate to pertinent research in the areas of exercise physiology. Emphasis will be placed on the use and calibration of equipment as well as adaptation of equipment to different research settings. Lecture two hours; laboratory three hours.

KINS 252. Advanced Exercise Physiology. 3 Units
Prerequisite(s): 1 year of General Chemistry, BIO 131 or equivalent, KINS 152 or equivalent, and KINS 153 or equivalent.
Term Typically Offered: Fall, Spring

Human physiological responses, from the cellular level to organ system level, to both acute and chronic exercise will be studied in detail with an emphasis on integrative physiological responses to exercise. The course will emphasize a complex regulatory systems approach to the changes and adaptations that occur with exercise. Specifically, how the regulatory systems dictate these changes. The course will aid in the understanding of both theoretical and integrative concepts in the area of exercise physiology. The course will provide a solid foundation that is needed to review and understand complex research in exercise physiology.

KINS 254. Advanced Biomechanics. 3 Units
Prerequisite(s): KINS 151, KINS 210; or instructor permission.
Term Typically Offered: Fall, Spring

Study human movement from a mechanical perspective utilizing laws of physics and relevant functional anatomical principles. Human movement will be looked at from a broad perspective, including basic movements to more complex skills. Students will use a variety of techniques to study the biomechanical principles of movement production including laboratory work, library research and examination of the appropriate theoretical constructs. Lecture two hours; laboratory three hours.

KINS 258. Research in Motor Learning. 3 Units
Prerequisite(s): KINS 158, KINS 210, or instructor permission.
Term Typically Offered: Fall, Spring

Designed to provide students with a solid foundation experience in motor learning; focus is on an intensive examination of a selected topic in motor learning; directed individual pilot study and the nature of original laboratory research.

KINS 259. Research in Exercise Physiology. 3 Units
Prerequisite(s): KINS 152, KINS 210, or instructor permission.
Term Typically Offered: Fall, Spring

Provides students with a solid foundation experience in human performance research. Primary focus is on intensive examination of selected advanced topics in exercise physiology.

KINS 260. Psychology Of Sport. 3 Units
Term Typically Offered: Fall, Spring

The in-depth study of parameters of human behavior as specifically related to sport including personality factors, motivational techniques, expectancy effects, group dynamics, leadership issues, aggression, arousal, concentration, and goal setting.

KINS 262. Psychological Aspects of Peak Performance. 3 Units
Term Typically Offered: Fall, Spring

In-depth examination of current research relating to theories of and techniques for performance enhancement in sport and dance through psychological skills strategies.

KINS 270. Instructional Strategies for Physical Activity and Sport. 3 Units
Term Typically Offered: Fall, Spring

Study of theoretical concepts, models and research that relates to organizational and instructional strategies for physical activity and sport. Along with developing problem solving and critical thinking skills, provides the student with the opportunity to partake in self-directed and cooperative learning experiences, and develops communications skills that will enhance staff development and teaching of individuals and groups in a variety of physical activity and sport environments.

KINS 276. Teaching and Coaching Effectiveness. 3 Units
Term Typically Offered: Fall, Spring

Study of the research methodology, systematic observation, and findings that relate to effective teaching and coaching in the school environment. Provides an analytical approach to the investigation of teaching and coaching behaviors by examining models and critical variables involved in describing, analyzing and interpreting the instructional process.

KINS 294A. Contemporary Topics in Sport Performance. 1 - 3 Units
Prerequisite(s): KINS 210.
Term Typically Offered: Fall, Spring

Advanced research seminars on topics of contemporary interest. Specific topics will vary.
Note: May be taken more than once for credit, provided topic is not repeated.

KINS 294B. Contemporary Topics in Exercise Physiology. 1 - 3 Units
Prerequisite(s): KINS 210.
Term Typically Offered: Fall, Spring

Advanced research seminars on topics of contemporary interest. Specific topics will vary.
Note: May be taken more than once for credit, provided topic is not repeated.

KINS 294C. Special Topics in Biomechanics. 1 - 3 Units
Prerequisite(s): KINS 254.
Term Typically Offered: Fall, Spring

Advanced research seminars on varied topics of contemporary interest.
Note: May be taken more than once for credit, provided topic is not repeated.

KINS 295. Practicum. 1 - 3 Units
Prerequisite(s): Approval of graduate faculty advisor and graduate coordinator.
Term Typically Offered: Fall, Spring

Graduate experiences in a practical setting.
Note: Open only to graduate students within the Physical Education Department.

Credit/No Credit

KINS 296A. Experimental Elementary Physical Education Workshop. 1 Unit
Term Typically Offered: Fall, Spring

Overview of the total elementary physical education curriculum. Major focus will be on appropriate practices, national content standards, establishing a learning environment, movement concepts, skill themes, and health-related physical fitness. Designed to meet the physical education component for graduate students seeking a multiple subject credential.
Note: Not open to undergraduate students, and it does not substitute for KINS 172.

Credit/No Credit

KINS 299. Directed Individual Study. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual research, project, or directed reading.
Note: Open only to majors who appear competent to carry on individual work. Admission to this course requires approval of the graduate advisor and the graduate coordinator. Formal written report required. May be repeated for credit.

Credit/No Credit

KINS 380. Methods of Teaching Elementary Physical Education. 1.5 Units
Prerequisite(s): KINS 130,
Corequisite(s): KINS 198A
Term Typically Offered: Fall, Spring

KINS 380 is an 8 week course designed for the future physical educator who wishes to deliver an effective, meaningful elementary physical education curriculum to a diverse population of students. Emphasis is on physical education pedagogy - the skills and techniques that successful teachers use to ensure student learning.

KINS 381. Methods of Teaching Secondary Physical Education. 1.5 Units
Corequisite(s): EDTE 366A
Term Typically Offered: Fall, Spring

An 8 week course, KINS 381 is designed for the future physical educator who wishes to deliver an effective meaningful physical education curriculum to a diverse population of students. Emphasis is on physical education pedagogy - the skills and techniques that successful teachers use to ensure student learning.

KINS 500. Culminating Experience. 1 - 4 Units
Prerequisite(s): Advanced to candidacy. Completion of KINS 211 or concurrent enrollment.
Term Typically Offered: Fall, Spring

Completion of a thesis or project under the direction of a department committee.

Korean (KORN)

KORN 1A. Elementary Korean 1A. 5 Units
Term Typically Offered: Fall only

Develops elementary spoken Korean language, reading and writing in Hangul, and the practical skills required to effectively use the modern language. The relationship between language and culture will also be emphasized. Includes an emphasis on the culture, customs, and traditions of Korea.

KORN 1B. Elementary Korean 1B. 5 Units
Prerequisite(s): KORN 1A
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Spring only

Continuation of KORN 1A. Develops elementary spoken Korean language, reading and writing in Hangul, and the practical skills required to effectively use the modern language. The relationship between language and culture will also be emphasized. Includes an emphasis on the culture, customs, and traditions of Korea.

KORN 2A. Intermediate Korean 2A. 4 Units
Prerequisite(s): KORN 1B
Term Typically Offered: Fall only

Intermediate Korean on the further development of speaking, reading, and grammatical skills through dialogues, discussions, and reading.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

KORN 2B. Intermediate Korean 2B. 4 Units
Prerequisite(s): KORN 2A
Term Typically Offered: Fall, Spring

Continuation of KORN 2A. Further development of speaking, reading, grammar, and composition skills at the intermediate to intermediate-high level.
Note: Meets the Foreign Language Graduation Proficiency Requirement.

KORN 92OS. Overseas Study - Lower Division. 0.5 - 99 Units
Term Typically Offered: Fall, Spring

KORN 192OS. Overseas Study - Upper Division. 0.5 - 99 Units
Term Typically Offered: Fall, Spring

Labor Studies (LBRS)

LBRS 100. Labor and the American Social Structure. **3 Units**
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Introduction to the study of labor in the U.S., including the nature of work, characteristics of the work force, and an overview of contemporary labor and industrial relations systems within the framework of current U.S. economic and political developments.
Cross Listed: SOC 176; only one may be counted for credit.

LBRS 195. Labor Studies Internship. **1 - 3 Units**
Term Typically Offered: Fall, Spring

Supervised work experience or research in relevant institutions providing an opportunity to apply classroom theories and principles to the 'real world.' Partial supervision may be supplied by host institution. Requires approval of the Labor Studies Coordinator.
Credit/No Credit

LBRS 199. Special Problems. **1 - 3 Units**
Term Typically Offered: Fall, Spring

Individual projects or directed reading open to students competent to carry on individual work under the direction of a faculty sponsor. Admission requires approval of the faculty sponsor and the Labor Studies Coordinator.
Credit/No Credit

Learning Communities (LCOM)

LCOM 99. Learning Communities. **1 - 15 Units**
Term Typically Offered: Fall, Spring

Learning Skills (LS)

LS 10I. ELM Self-Paced Course. **3 Units**
Prerequisite(s): Score of 44-48 on the ELM.
Term Typically Offered: Fall, Spring

Review of elementary algebra and measurement geometry through a program of independent study.

Liberal Arts (LIBA)

LIBA 200C. Culture and Expression: The Modern Period. **3 Units**
Prerequisite(s): LIBA 200A and LIBA 200B; Graduate Standing
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Interdisciplinary seminar on cultural movements, figures, and art forms of the modern period from the Baroque to the present. Focus on the West with some global comparison. Emphasis on theoretical perspectives, methods, and research techniques germane to the liberal arts.
Note: Writing Intensive

LIBA 204. Performance Of Culture. **3 Units**
Term Typically Offered: Fall, Spring

Study of the relationship between discourses of culture, politics, aesthetics, and live performance. Critical theories drawn from new methodology and ideologies will be applied to theatrical representations, both classical and contemporary.
Cross Listed: THEA 204; only one may be counted for credit.

LIBA 208. Politics in the Age of Antichrist: Prophecy and Society, 1500-1800. **3 Units**
Term Typically Offered: Fall, Spring

Examination of the role of the Judeo-Christian apocalypse in the creation of modern realms of discourse, including political thought, modern science, and secular values generally.

LIBA 210. Gender and Religion in Cross-Cultural Perspective. **3 Units**
Term Typically Offered: Fall, Spring

Exploration of the relationships and roles of women and men in the context of religious life. May focus extensively on one or more particular religious traditions cross-culturally, or draw on a wider spectrum of examples. Special attention paid to the complementary nature of men's and women's roles in many religious traditions; and also the way that male perspectives have dominated many areas of formal religious discourse, noting the dissenting voices of women often hidden in more informal types of expression.
Cross Listed: HRS 210; only one may be counted for credit.

LIBA 211. Psychological Issues in Films. **3 Units**
Term Typically Offered: Fall, Spring

Examines the presentation of psychological themes in contemporary feature films. It will consider such topics as: Adolescence, Adulthood and Aging, Homosexuality, Drug Addiction, and Physical Disability as they are portrayed in films created for a mass market.
Cross Listed: PSYC 296M; only one may be counted for credit.

LIBA 215. Images of America at Home and Abroad. **3 Units**
Term Typically Offered: Fall, Spring

Study and analysis of uniquely American cultural patterns, social institutions, and core values, and how they are perceived both in America and abroad.

LIBA 226. Wisdom and Apocalyptic Literature. **3 Units**
Prerequisite(s): LIBA 200A or graduate status in History or instructor permission.
Term Typically Offered: Fall, Spring

Examines two of the more creative literary genres that make up the canonical and deuterocanonical literature of the Jewish and Christian Bibles. Both the historical and theological underpinnings of wisdom and apocalyptic writing will be explored in-depth, with some consideration given to literary analogues in Egyptian, Mesopotamian and Greek cultures. Significant research into wisdom and apocalyptic writings outside of the testament framework required.
Cross Listed: HRS 226; only one may be counted for credit.

LIBA 232. Moral Dilemmas in Modern Medicine. **3 Units**
Term Typically Offered: Fall, Spring

Philosophic investigation of moral problems in the medical world, including decision making, rights and values pertaining to human life, and the principles of justice applied to the health care field.

LIBA 243. The Holocaust. 3 Units
Term Typically Offered: Fall, Spring

Analytical study of the Nazi extermination of European Jewry, with particular emphasis given to the roots of exterminationist anti-Semitism, and to the cultural response of Jews and non-Jews to the tragedy of mass-murder.

LIBA 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who have demonstrated competence in undertaking individual work. Enrollment requires approval of the supervising faculty member and the Program Coordinator. No more than 6 units total of LIBA 299 may be counted toward the major.

Credit/No Credit

LIBA 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy and permission of the Program Coordinator.
Term Typically Offered: Fall, Spring

Completion of a thesis, project or comprehensive examination.

Liberal Studies (LBST)

LBST 110. California Studies. 3 Units
Prerequisite(s): GOVT 1 or equivalent.
Term Typically Offered: Fall, Spring

Multidisciplinary, analytical view of California that identifies its ethnic and racial diversity within the political, economic and social development of the state. Examines the environmental and geographic dimensions of the state as well as the demographic and land-use trends that have contributed to California's uniqueness.

LBST 194. Liberal Studies Cooperative Education Experience. 3 Units
Prerequisite(s): Upper division status, and instructor permission.
Term Typically Offered: Fall, Spring

Cooperative Education (Co-op) relates academic theory to professional practice by providing paid work experience in schools or related settings. Students gain field experience through supervised employment in school districts and other education-related settings.
Note: May be repeated once for credit.

Credit/No Credit

Linguistics (LING)

LING 199. Special Problems in Linguistics. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual problems in any area of linguistics: theoretical, descriptive, applied, historical or comparative.
Credit/No Credit

Management (MGMT)

MGMT 10. Introduction to Business Law. 3 Units
Term Typically Offered: Fall, Spring

Study of business law for the future business professional. Introduces students to basic business problems that have legal consequences. Encourages the identification of ethical concerns along with the ability to anticipate potential legal problems with the goal of preventing them. Covers introduction to the legal system; court procedures; contracts and sales; business organizations; real and personal property; labor and employment law; product liability, and the government regulation of business.

MGMT 20. Introduction To Business. 3 Units
Term Typically Offered: Fall, Spring

Provides an overview of the various basic functions of business and how they interface. Topics will include accounting, finance, marketing, human resources management, management information systems, operations management, real estate, and international business.

MGMT 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

MGMT 101. Legal Environment of Business. 3 Units
Prerequisite(s): Must be a Business pre-major, Business major (any concentration), a business minor, a Construction Mgmt major, a Mech Engr Tech major, or a Music (Music Mgmt) major to enroll in this course.
Term Typically Offered: Fall, Spring

Study of business law for the business professional. Aside from investigating substantive law, the course stresses critical thinking and analytical evaluation of contemporary business problems. Encourages the identification of ethical concerns along with the ability to anticipate potential legal problems with the goal of preventing them. Covers introduction to the legal system; court procedures; contracts and sales; business organizations; real and personal property; labor and employment law; product liability, and the government regulation of business. OBE 16 or the equivalent is recommended.

MGMT 102. Business Communications. 3 Units
Prerequisite(s): Completion of Area A in General Education and ENGL 20. Recommend COMS 2 and COMS 4.
Term Typically Offered: Fall, Spring

Provides basic concepts for understanding and practice of communication in the changing world of business for managers and professionals. It examines the use of language and conversations in business settings and their role in coordinating actions, resolving breakdowns in work performance, and providing customer satisfaction. Topics include: Practice in professional styles of business writing and formats, preparation of a formal report, development of competence in business conversation skills (written, electronic, and oral), and other selected topics. International, technical, and linguistic developments are integrated into the various applications of business communication.

MGMT 117. Business, Ethics and Society. **3 Units**
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Investigation of contemporary business issues and management dilemmas in relation to broad social concerns. Focus is upon public and private decision making in the business environment and how business practices, ethics, and social concerns interrelate. Topics such as the nature of property and profits, efficiency and human values, the balancing of claims of owners, employees, customers, and others in community, corporate responsibility, corporate governance, government regulation and international dimensions of public policy will be covered.

Management Information Systems (MIS)

MIS 1. Word Processing. **1 Unit**
Term Typically Offered: Fall, Spring

The course teaches Microsoft Office Word that establishes a student's fundamental computer skills required to perform business related tasks. Topics include developing and refining a document; identifying and correcting errors; formatting, modifying and printing documents; working with pictures, graphics, tables and charts; creating reports, forms, references and mailings; securing content and sharing documents, exploring advanced document features and macros, etc.
Credit/No Credit

MIS 2. Spreadsheets. **1 Unit**
Term Typically Offered: Fall, Spring

The course teaches Microsoft Office Excel that establishes a student's fundamental computer skills required to perform business related tasks. Topics include creating and formatting a worksheet; summarizing and analyzing data; using decision making tools; working with logical, statistical, database and financial functions, sharing data with other applications, etc.
Note: Not open to students receiving credit for CSC 6B.

Credit/No Credit

MIS 3. Presentation Graphics. **1 Unit**
Term Typically Offered: Fall, Spring

The course teaches Microsoft Power Point that establishes a student's fundamental computer skills required to perform business related tasks. Topics include creating, refining and delivering presentations; working with graphics, tables and charts; inserting and enhancing pictures, shapes, sound and video; using templates, slide masters and text boxes, printing, securing and sharing presentations, etc.
Credit/No Credit

MIS 4. Database Applications. **3 Units**
Term Typically Offered: Fall, Spring

Use of database management systems (DBMS) to provide students with fundamental information retrieval skills required to perform business related tasks. Topics include basic DBMS operations, working with tables, queries, forms, reports and data analysis.
Note: Students will be required to purchase an online learning application to facilitate skill development.

Credit/No Credit

MIS 10. Business Applications. **2 Units**
Term Typically Offered: Fall, Spring

The course teaches the use of spreadsheets to establish a students' fundamental computer skills required to perform business related tasks. Topics include basic spreadsheet operations, working with charts and graphics, application of formulas and spreadsheet presentation formatting.
Note: Students will be required to purchase an online learning application to facilitate skill development.

MIS 15. Introduction to Business Programming. **3 Units**
Term Typically Offered: Fall, Spring

Introduction to object oriented programming language. Topics include use of simple data structures and data types, arrays, strings, input-output functions, file processing, and flow control.

MIS 101. Computer Information Systems for Management. **3 Units**
Term Typically Offered: Fall, Spring

Explores the application of computers to the organizational environment with a management perspective. Topics may include transaction processing systems, management reporting, decision support systems, strategic planning, security, controls and acquisition of hardware, software and services. The interface between the information systems professional and the manager will be defined. Case studies and use of appropriate software packages may be included.

MIS 120. Advanced Object-Oriented Business Programming. **3 Units**
Prerequisite(s): MIS 15.
Term Typically Offered: Fall, Spring

Advanced course in programming principles using an Object Oriented (OO) programming language. Topics will focus on object-oriented (OO) programming including the design and development of OO applications, object classes, inheritance, polymorphism and encapsulation, and graphical user interface (GUI) application development including contrasting event-driven and procedural programming. Assignments will focus on problem-solving in a business context.

MIS 122. Object-Oriented Programming for Business in Java. **3 Units**
Prerequisite(s): MIS 15 or CSC 15.
Term Typically Offered: Fall, Spring

Advanced course in programming principles using an Object Oriented (OO) programming language. Topics will focus on object-oriented (OO) programming including the design and development of OO applications, object classes, inheritance, polymorphism and encapsulation, and graphical user interface (GUI) application development including contrasting event-driven and procedural programming.

MIS 124. Web Development for Business Applications. 3 Units
Prerequisite(s): MIS 120.
Term Typically Offered: Fall, Spring

Examines the technologies and principles of modern Web development in the creation of Web-based business applications. Emphasis will be given to client-side and server-side technologies and include the topics of basic Web technologies, forms, database access, frameworks, and Web services. Topics are accompanied by design principles, tools, and techniques for Web application development.

MIS 140. Business Data Communication. 3 Units
Prerequisite(s): Business majors only
Term Typically Offered: Fall, Spring

Examines the basic terminology, hardware/software components, and issues with the establishment, configuration, and management of data communication networks in and across organizations. Topics include wired and wireless local area networks, wide area networks, the internet, and cloud infrastructure.

MIS 150. Database Systems for Business. 3 Units
Term Typically Offered: Fall, Spring

Involves the study of generalized database management systems. The study will include logical data base models and physical base models based primarily on the relational and object-relational models. The student will create and manipulate a database utilizing an established database management system. The importance of data administration and other database related topics such as independence, integrity, privacy, query, backup, and recovery will be covered.

MIS 151. End-User Database Application Development for Business. 3 Units
Prerequisite(s): MIS 1, MIS 2, MIS 3 or approved equivalent.
Term Typically Offered: Fall, Spring

Introduction to end-user database application development in the business environment. Topics will focus on issues in the development of business database applications and include database concepts, organization, storage and retrieval of data, query and analysis with interactive software tools, informative and performance management reporting.
Note: Not open to MIS students.

MIS 160. Systems Development Life Cycle. 3 Units
Prerequisite(s): MIS 101 and MGMT 102
Term Typically Offered: Fall, Spring

Analyze, design, and develop business information systems to solve information needs of businesses and organizations. Topics include various systems analysis and design techniques, tools and methods for building new and/or integrated information systems.

MIS 161. Information Systems Practicum. 3 Units
Prerequisite(s): MIS 15, MIS 150, MIS 160, and Business major or minor.
Term Typically Offered: Fall, Spring

This course provides a comprehensive integration of MIS coursework through the completion of an information systems project. Topics include information systems development life cycle, project management, application development, database management, and security.

MIS 163. Business Process Engineering and ERP Configuration. 3 Units
Term Typically Offered: Fall, Spring

This course focuses on identifying and understanding business requirements, modeling business processes that incorporate the business requirements, and configuring the processes for their implementation in an enterprise resource planning (ERP) system. Students will gain insights to implementation issues and propose alternative solutions to overcome them. A project team environment further develops individual student's communication and team skills.

MIS 170. Information Systems Security. 3 Units
Prerequisite(s): MIS 140
Term Typically Offered: Fall, Spring

This course provides a comprehensive study of IT security principles and of information systems. Emphasis will be placed on understanding the framework of IT security in enterprise IT infrastructure. Topics include information security concepts, security risks and vulnerabilities, common attacking techniques, technical and administrative countermeasures for modern enterprise IT infrastructure, such as encryption, authentication, access control, security policies and standards, and IT risk management and audit.

MIS 171. Enterprise Resource Planning Systems. 3 Units
Prerequisite(s): MIS 101
Term Typically Offered: Fall, Spring

Foundation, business functions, processes, data requirements, development, and management of ERP systems for sales, marketing, accounting, finance, production, supply chain and customer relationship management. Emphasis on re-engineering, integration, standardization, and methodologies of ERP systems.

MIS 173. Microcomputers for Managers. 3 Units
Term Typically Offered: Fall, Spring

For students who want to have more than the minimum required personal computer literacy knowledge. The topics covered are: hardware, system software, utility software, spreadsheet modeling, the Internet, and presentation graphics.
Note: Not open to MIS students.

MIS 181. Machine Learning Applications in Business. 3 Units
Prerequisite(s): DS 101 and MIS 150
Term Typically Offered: Fall, Spring

Applies modern machine learning applications in business to data analysis and problem solving. Topics are presented in the context of decision support and may include knowledge representation, neural networks, genetic algorithms, rule induction, fuzzy logic, case-based reasoning and intelligent agents.

MIS 182. Topics In MIS. 3 Units
Prerequisite(s): MIS 150, MIS 160.
Term Typically Offered: Fall, Spring

Current topics will be presented regarding the technical, managerial, and organization considerations affecting computer-based information systems. Topics may include programming languages and techniques, emerging technologies, and MIS development and implementation issues. Readings, topical research, case presentations, and/or projects will be required.

MIS 183. Business Intelligence Applications. 3 Units
Prerequisite(s): Business major and minor
Term Typically Offered: Fall, Spring

Advanced information technologies that extract non-trivial, actionable, and novel knowledge from data to achieve strategic goals of organizations. Emphasis on multidimensional data modeling, online analytic processing, data warehouse, and data mining.

MIS 191. Culminating Experience. 1 Unit
Prerequisite(s): Completion of all coursework in minor.
Term Typically Offered: Fall, Spring

Students demonstrate their knowledge and apply their skill sets from the minor to a working project, and conduct an executive-level, management-oriented presentation.
Note: Students must be in their final semester of the minor's program.

Credit/No Credit

MIS 194. Cooperative Education Experience in Management Information Systems. 6 - 12 Units
Prerequisite(s): MIS 160, minimum Sacramento State overall GPA of 2.75.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in management information systems for the purpose of exposing the student to comprehensive MIS experience in business, governmental, or service agencies. Open to all upper division students, subject to permission of the MIS Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Credit/No Credit

MIS 195. Internship in Management Information Systems. 3 - 6 Units
Prerequisite(s): MIS 160, minimum Sacramento State overall GPA of 2.75.
Term Typically Offered: Fall, Spring

Supervised work experience in management information systems for the purpose of increasing student understanding of the nature and scope of the operations of business, governmental, or service agencies. Supervision is provided by the faculty and the cooperating agencies. Open to upper division students, subject to permission of the MIS Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065.
Note: Open to declared business administration majors only.

Credit/No Credit

MIS 199. Special Problems in Management Information Systems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions may be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

MIS 210. Information Systems I. 3 Units
Term Typically Offered: Fall, Spring

Introduction to business information systems planning and systems development methodologies. Various methodologies are explored and information systems development project planning is emphasized.

MIS 211. Information Systems II. 3 Units
Term Typically Offered: Fall, Spring

Introduction to basic and object-oriented programming concepts, data structures for information representation, and database management systems.

MIS 232. Management Science. 3 Units
Term Typically Offered: Fall, Spring

Introduction to deterministic and stochastic models in operations research. Topics that may be included are: mathematical programming, inventory theory, analysis of waiting lines, Markov processes, game theory, decision theory and simulation. Various computer programs such as LINDO are used to assist in solution and analysis of management problems.
Note: Not open to students with credit for MIS 132.

MIS 240. Communications Technologies for Business. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission.
Term Typically Offered: Fall, Spring

Focuses on the concepts, technology, applications, and management of data and voice communication with an emphasis on building, supporting, securing, and administering the requirements of network infrastructure and architecture to support businesses.
Note: May be taken twice for credit.

MIS 250. Data Management. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission, and MIS 15 or equivalent.
Term Typically Offered: Fall, Spring

Focuses on database concepts, design and implementation in business. Topics include database design techniques, such as extended entity-relationship and unified modeling language, logical and physical data models for objection-relational database, object oriented database and relational databases, database implementation and administration issues, and the discussion of distributed database, web database, and database security .
Note: May be taken twice for credit.

MIS 251. Strategic Applications of Information Resources. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 210 and 211, or their equivalents. MBA students: MBA 260 and instructor permission.
Term Typically Offered: Fall, Spring

Discussion of the techniques and methodologies to utilize information resource to improve an organization's strategic performance measures. Topics include data warehouse, data mining, online analytical transaction processing, and multidimensional database.

MIS 260. Systems Design. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission.
Term Typically Offered: Fall, Spring

Involves the study of various methods used to analyze and design a computer-based information systems and emphasizes object-oriented systems development (OOSD) techniques.
Note: May be taken twice for credit.

MIS 261. Information Technology Integration for the Enterprise. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 260 or MIS 270; MBA students: MBA 260 or permission of instructor.
Term Typically Offered: Fall, Spring

IT presents many new opportunities at the enterprise level for the design and implementation of integrated organizational structures and business processes that better align the business to meeting its market demands and allow it to pursue new strategic relationships with other organizations. Enterprise IT primarily involves enterprise resource planning (ERP), supply chain management (SCM), knowledge management (KM), and customer relationship management (CRM) to support and coordinate business activities.
Note: May be taken twice for credit.

MIS 262. Business Project Management. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 260; MBA students: MBA 260 or instructor permission.
Term Typically Offered: Fall, Spring

Examines various aspects of IT project management, including project selection involving feasibility, complexity, scalability and impact comparisons, project portfolio to direct the right resources to the right projects to sure their timely completion, risk assessment, key performance measures, and others.
Note: May be taken twice for credit.

MIS 270. Information Technology Operations. 3 Units
Prerequisite(s): Graduate MIS status or instructor permission.
Term Typically Offered: Fall, Spring

Examines the management of information technology as a vital resource to an organization. IT can enable businesses to seize opportunities, gain competitive advantages and establish close relationships with other businesses and their customers. Thus, the business must effectively and efficiently manage and secure its IT resources.
Note: May be taken twice for credit.

MIS 272. Strategic Information Technology Planning. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 270; MBA students: MBA 260 or instructor permission.
Term Typically Offered: Fall, Spring

Strategic IT planning defines the direction a business chooses for its IT resources. It encompasses a vision, mission, strategy, and objectives that closely align to the business' vision, mission, strategy, and objectives. Planning involves examining how IT will support the achievement of the business' goals and objectives, and how IT can open new opportunities to create new business goals.
Note: May be taken twice for credit.

MIS 279. Information Technology Leadership. 3 Units
Prerequisite(s): MSBA/MIS students: MIS 261 or MIS 262, MIS 272; MBA students: MBA 260 and instructor permission.
Term Typically Offered: Fall, Spring

Leadership plays an important role in determining a business' success with IT. It requires recognizing and leveraging the business' competencies and core values, and championing initiatives and projects that work in the best interest of the business and create value. Because IT opens opportunities and enables the organization, IT leadership extends to both market (external) and organizational (internal) environments.
Note: May be taken twice for credit.

MIS 280. Decision and Knowledge-Based Systems. 3 Units
Prerequisite(s): MIS 211 or equivalent.
Term Typically Offered: Fall, Spring

Organizational use of information generated from transaction processing systems, management information systems, and decision support systems. The uses of information by managers for planning, control, and decision-making purposes will be discussed. The types of information systems implemented in various kinds of organizations will be covered.

MIS 281. Topics in the Management of Information Systems. 3 Units
Prerequisite(s): Open to non-MSBA/MIS majors with credit in MBA 260 or equivalent; and to those who have completed MSBA/MIS Program Prerequisites.
Term Typically Offered: Fall, Spring

Current topics will be presented regarding the managerial, behavioral, and organizational considerations affecting computer-based information systems. Includes topics such as project selection and justification techniques, system controls, security and privacy issues, strategic planning, and use/data processing department relations. Readings, topical research, and case presentations will be required.

MIS 295. Internship in Management Information Systems. 3 Units
Prerequisite(s): Completion of two of the following: MIS 240, MIS 250, MIS 260, or MIS 270; minimum Sacramento State GPA of 3.0.
Term Typically Offered: Fall, Spring

Supervised work experience in management information systems for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations of business, governmental, or service agencies. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions to be obtained from Tahoe Hall 1037.

Credit/No Credit

MIS 299. Special Problems in Management Information Systems. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member under whom the individual work is to be conducted in addition to the approval of the Graduate Programs Office. Petitions to be obtained from Tahoe Hall 1035.

Credit/No Credit

MIS 500A. Thesis. 1 - 3 Units
Prerequisite(s): Advanced to candidacy. Completion of MBA 244.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree.

MIS 500B. Project. 1 - 3 Units
Prerequisite(s): Advanced to candidacy. Completion of MBA 244.
Term Typically Offered: Fall, Spring

Completion of a project approved for the Master's degree.

MIS 500C. Comprehensive Examination. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; for comprehensive examination for MBA only (MGMT 500C, 1 unit), completion of program requirements (ACCY 240, MBA 230, MBA 240, MBA 241, MBA 270, MBA 280; for comprehensive examination for MSBA/MIS Degree, student must be in final semester of program.
Term Typically Offered: Fall, Spring

For MSBA/MIS.

Marine Sciences (MSCI)

MSCI 103. Marine Ecology. 4 Units
Prerequisite(s): Ecology, statistics; or concurrent registration in MSCI 104.
Term Typically Offered: Fall, Spring

Field-oriented introduction to the interrelationships between marine and estuarine organisms and their environment with emphasis on quantitative data collection and analysis. Lecture two hours; laboratory six hours.

MSCI 104. Quantitative Marine Science. 4 Units
Prerequisite(s): College mathematics.
Term Typically Offered: Fall, Spring

Mathematical methods for the analysis of biological, chemical and physical data from the marine environment; experimental design, parametric and nonparametric statistics. Lecture three hours; laboratory three hours.
Note: Not for major credit.

MSCI 105. Marine Science Diving. 3 Units
Prerequisite(s): Upper division science major status, thorough physical examination, ability to pass swimming test.
Term Typically Offered: Fall, Spring

Skin SCUBA diving course, pool-training culminates in ten ocean dives. Topics covered included diving physics, physiology, diving environments, night diving and research diving. Successful completion gives NAUI and MLML certification. Lecture one hour; laboratory six hours.
Note: Not for major credit.

MSCI 112. Marine Birds and Mammals. 4 Units
Prerequisite(s): Upper division college vertebrate zoology or instructor permission; MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Systematic, morphology, ecology and biology of marine birds and mammals. Lecture two hours; laboratory six hours.

MSCI 113. Marine Ichthyology. 4 Units
Prerequisite(s): College zoology or equivalent or instructor permission; MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Description of the taxonomy, morphology, and ecology of marine fishes. Both field and laboratory work concentrate on the structure, function and habits of marine fishes and the ecological interactions of these fishes with their biotic and abiotic surroundings. Lecture two hours; laboratory six hours.

MSCI 124. Marine Invertebrate Zoology I. 4 Units
Prerequisite(s): College zoology or instructor permission; MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Field oriented introduction to the structure, systematics, evolution, and life histories of the major and minor marine phyla. Lecture two hours; laboratory and six hours.

MSCI 125. Marine Invertebrate Zoology II. 3 Units
Prerequisite(s): College zoology or instructor permission; MSCI 103 and MSCI 124 recommended.
Term Typically Offered: Fall, Spring

Field oriented introduction to the structure, systematics, evolution and life histories of the minor marine invertebrate phyla. Lecture one hour; laboratory and field six hours.

MSCI 131. Marine Botany. 4 Units
Prerequisite(s): MSCI 103 recommended.
Term Typically Offered: Fall, Spring

Introduction to the plants of the sea, marshes, and dunes, with emphasis on the morphology, taxonomy and natural history of seaweeds and vascular plants. Lecture two hours; laboratory six hours.

MSCI 135. Physiology of Marine Algae. 4 Units
Prerequisite(s): MSCI 103, MSCI 131, and MSCI 144. Lecture two hours; laboratory six hours.
Term Typically Offered: Fall, Spring

Physiological basis for understanding the adaptation of marine algae to their environment. Topics include respiration, enzyme activity, and biochemical composition. Hands-on experience in basic electronic instrumentation, chemical separations, optical measurements, culturing methods, and radioisotope techniques.

MSCI 141. Geological Oceanography. 4 Units
Prerequisite(s): MSCI 142, MSCI 143; may be taken concurrently.
Term Typically Offered: Fall, Spring

Study of the structures, physiography and sediments of the sea bottom and shoreline. Lecture two hours; laboratory and field six hours.

MSCI 142. Physical Oceanography. 4 Units
Prerequisite(s): College algebra, college physics recommended.
Term Typically Offered: Fall, Spring

Introduction to the nature and causes of various oceanic motions including currents, waves, tides, and mixing and the Physical properties of seawater. Limited use of calculus. Lecture three hours; laboratory three hours.

MSCI 143. Chemical Oceanography. 4 Units
Prerequisite(s): One year of college chemistry.
Term Typically Offered: Fall, Spring

Introduction to the theoretical and practical aspects of the chemistry of the oceans, including major salts, dissolved gases, nutrient ions, carbonate system, transient tracers, and shipboard sampling techniques. Lecture two hours; laboratory six hours.

MSCI 144. Biological Oceanography. 4 Units
Prerequisite(s): General biology, general chemistry.
Term Typically Offered: Fall, Spring

Ocean as an ecological system. Emphasis will be on the complexity of organismal-environmental interaction of the plankton, the transfer of organic matter between trophic levels and nutrient cycles. Laboratory sessions will include methods in sampling, shipboard techniques, identification of the plankton, and current analytical techniques. Lecture two hours; laboratory six hours.

MSCI 175A. Coastal Geol Processes. 1 Unit
Term Typically Offered: Fall, Spring

MSCI 175B. Intro To Marine Science. 1 Unit
Term Typically Offered: Fall, Spring

MSCI 180. Independent Study. 1 - 4 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Faculty-directed study of selected research problems; open to undergraduate students with adequate preparation. Three hours work per unit.

MSCI 201. Library Research Methods. 1 Unit
Prerequisite(s): Graduate standing in the Marine Science M.S. program and instructor permission.
Term Typically Offered: Fall, Spring

Students will gain advanced understanding of the nature of scientific information. Provides the framework for using and evaluating a variety of information sources in marine and ocean sciences. Strong emphasis will be placed on developing critical skills to interweave knowledge of the history of science into the context of bibliographic tools including the digital realm. Lecture: three hours.

MSCI 202. Oceanographic Instrumentation. 4 Units
Prerequisite(s): MSCI 141, MSCI 142 and instructor permission.
Term Typically Offered: Fall, Spring

Principles of instruments used in oceanographic research, introduction to electronics, and applications of instrument measurements. Emphasis will vary from CTD profilers, current meters, radiometry and chemical measurement. Lecture two hours; laboratory six hours.

MSCI 204. Sampling and Experimental Design. 4 Units
Prerequisite(s): MSCI 103, MSCI 104.
Term Typically Offered: Fall, Spring

Discussion of random sampling, systematic sampling, subsampling, survey techniques, and design of single and multifactorial experiments using randomized and block experimental designs: basic design of experiments and field sampling will be covered. Biases and problems of sampling marine biota will be presented and discussed by critiquing relevant literature. Lecture four hours.

MSCI 208. Molecular Ecology: Concepts and Methods. 4 Units
Prerequisite(s): Basic cellular/molecular biology course; consent of instructor.
Term Typically Offered: Fall, Spring

Use of genetic information affecting interactions of organisms with environment. Lectures on molecular markers used to assess diversity in communities, characterize spatial/temporal variation in species composition, assess genetic variability in populations, discriminate/reveal kinship among individuals, and detect/quantify gene expression important in organismal responses to environmental fluctuation. Basic molecular methods (DNA and RNA isolation/amplification/cloning/sequencing) taught. Students projects as budget permits. Enrollment limited. Lecture 2 hours; laboratory 6 hours.

MSCI 211. Ecology of Marine Birds and Mammals. 4 Units
Prerequisite(s): MSCI 103, MSCI 104, MSCI 112.
Term Typically Offered: Fall, Spring

Community approach to the ecology of marine birds and mammals using experimental and sampling methodology; examine the distribution, abundance, trophic ecology, and behaviors of birds and mammals in Elkhorn Slough and Monterey Bay. Lecture two hours; laboratory six hours.

MSCI 212. Advanced Topics in Marine Vertebrates. 4 Units
Prerequisite(s): MSCI 112 or MSCI 113 and instructor permission.
Term Typically Offered: Fall, Spring

Advanced consideration of the ecology, physiology and phylogeny of fishes, birds, reptiles or mammals, emphasizing current literature and research. Topics and emphasis will vary with term and instructor. Lecture two hours; laboratory six hours.
Note: May be repeated once for credit.

MSCI 212A. Adv Ichthyology. 4 Units
Term Typically Offered: Fall, Spring

MSCI 212B. Ichthyoplankton. 4 Units
Term Typically Offered: Fall, Spring

MSCI 212C. Marine Bird+Mammal Ecolgy. 4 Units
Term Typically Offered: Fall, Spring

MSCI 212D. Sampling+Expermntl Design. 4 Units
Term Typically Offered: Fall, Spring

MSCI 221. Advanced Topics in Marine Invertebrates. 4 Units
Prerequisite(s): MSCI 124 and instructor permission.
Term Typically Offered: Fall, Spring

Advanced considerations of the ecology, physiology and phylogeny of the various invertebrate phyla emphasizing current literature and research. Topics will vary from term to term. Lecture two hours; laboratory six hours.
Note: May be repeated for credit when topics change.

MSCI 221A. Marine Symbioses. 4 Units
Term Typically Offered: Fall, Spring

MSCI 231. Biology Of Seaweeds. 4 Units
Prerequisite(s): MSCI 131 or instructor permission.
Term Typically Offered: Fall, Spring

Lecture-discussions in algal development, reproduction, and ecology. Extensive reading of original literature. Ecologically oriented individual research projects involving laboratory culture and field experimentation. Lecture two hours; laboratory six hours.

MSCI 233A. Adv Marine Ecology. 4 Units
Term Typically Offered: Fall, Spring

MSCI 233B. Sampling+Expermntl Design. 4 Units
Term Typically Offered: Fall, Spring

MSCI 233C. Coastal Ecology-Gulf of California. 3 Units
Prerequisite(s): MSCI 103, MSCI 104, MLML SCUBA certified, graduate status, instructor permission.
Term Typically Offered: Fall, Spring

Field-oriented examination of the interrelationships between intertidal and shallow subtidal organisms and their environment in the Gulf of California, Mexico. Information from lectures and review of primary literature on the ecology of the region will be used to write a research proposal. 1 hour lecture, 6 hours laboratory.

MSCI 233D. Immune Respn Marine Orgns. 2 Units
Term Typically Offered: Fall, Spring

MSCI 234. Advanced Biological Oceanography. 4 Units
Prerequisite(s): MSCI 144.
Term Typically Offered: Fall, Spring

Experimental techniques in biological oceanography with emphasis on problems important to plankton ecology. Includes lectures, labs, and discussions of current research problems. An individual research project involving analytical tools will be required. Lecture two hours; laboratory six hours.

MSCI 242. Plate Tectonics. 3 Units
Prerequisite(s): MSCI 141 or instructor permission.
Term Typically Offered: Fall, Spring

Historical background, modern theory, and geo-physical evidence of continental drift sea floor spreading and plate tectonics. Examinations of the impact of the recent revolution in historical geology. Lecture three hours.

MSCI 248. Marine Benthic Habitat Techniques. 4 Units
Prerequisite(s): Graduate standing and instructor permission.
Term Typically Offered: Fall, Spring

Collection and interpretation of geophysical data used to characterize marine benthic habitats. Basic geophysical principles will be reviewed. Application of techniques to identify and characterize marine benthic habitats, including echosounders, multibeam bathymetry and backscatter, sidescan sonar, seismic profiling, and GIS. Lecture two hours; laboratory six hours.

MSCI 251. Marine Geochemistry. 4 Units
Prerequisite(s): MSCI 143, quantitative analysis, one year calculus or instructor permission.
Term Typically Offered: Fall, Spring

Geochemical processes in the oceans: thermodynamics of low temperature aqueous reactions, processes occurring at the sea floor and air-sea interface. Lecture two hours; laboratory six hours.

MSCI 261. Ocean Circulation and Mixing. 4 Units
Prerequisite(s): MSCI 142; college physics strongly recommended or instructor permission.
Term Typically Offered: Fall, Spring

Mathematical description of the distribution of properties (salinity density, etc.) in the oceans relating to physical and biochemical processes. Equations of motion, geotropic method, and theory of distribution of variables. Lecture two hours; laboratory six hours.

MSCI 262. Satellite Oceanography. 4 Units
Prerequisite(s): MSCI 142, MSCI 144, or instructor permission. MSCI 263 strongly recommended.
Term Typically Offered: Fall, Spring

Physical principles of remote sensing with application to the oceans including satellite image processing methods. Labs involve use of PC and Unix workstation. Lecture two hours; laboratory six hours.

MSCI 263. Application of Computers in Oceanography. 4 Units
Prerequisite(s): College math and instructor permission.
Term Typically Offered: Fall, Spring

Lecture, discussion and technical programming with MATLAB for computation and visualization with applications in marine sciences. Use of existing program libraries for data I/O and analysis. Semester project required. Lecture two hours; laboratory six hours.

MSCI 271. Population Biology. 3 Units
Prerequisite(s): MSCI 103, MSCI 104; or instructor permission.
Term Typically Offered: Fall, Spring

Principles of the interaction among marine organisms that result in the alteration of population structures. Techniques for assessment and management of populations. Lecture two hours; laboratory three hours.

MSCI 272. Subtidal Ecology. 4 Units
Prerequisite(s): MLML diver certification and marine ecology (knowledge of marine algae, invertebrates, and statistics recommended).
Term Typically Offered: Fall, Spring

Ecology of nearshore rocky subtidal populations and communities with emphasis on kelp forests. Lectures and discussions of original literature. Field work with SCUBA including group projects on underwater research techniques and community analysis, and individual research on ecological questions chosen by the student. Lecture two hours; laboratory six hours.

MSCI 274A. Electron Micros+Microanl. 3 Units
Term Typically Offered: Fall, Spring

MSCI 274B. Geol Central Ca Margin. 4 Units
Term Typically Offered: Fall, Spring

MSCI 274C. Chem Of Marine Pollution. 4 Units
Term Typically Offered: Fall, Spring

MSCI 274D. Global Change. 3 Units
Term Typically Offered: Fall, Spring

MSCI 280. Scientific Writing. 3 Units
Prerequisite(s): Graduate status and instructor permission.
Term Typically Offered: Fall, Spring

Techniques and strategies of scientific writing used for proposals, journal submissions, and abstracts for meetings. Students will develop their writing skills by preparing, editing, and rewriting manuscripts. Lecture three hours.

MSCI 281. Coastal Dynamics. 4 Units
Prerequisite(s): Graduate standing and MSCI 141 or MSCI 142.
Term Typically Offered: Fall, Spring

Addresses the oceanographic dynamics of coastal environments, within an emphasis on eastern boundary current systems influenced by coastal upwelling. Focuses on how physical and geological oceanography interact with each other and how both affect coastal ecosystem dynamics.

MSCI 285. Seminar in Marine Biology. 2 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar. Lecture two hours.
Note: May be repeated once for credit.

MSCI 285A. Social Biology. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285B. Repro+Dev Marine Organism. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285C. Recent Adv Deep-Sea Bio. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285D. Controversies Modern Biol. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285E. Paradigms In Commun Ecol. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285F. Appl Moleclr Tech Mar Bio. 2 Units
Term Typically Offered: Fall, Spring

MSCI 285G. Aspects Of Deep-Sea Biol. 2 Units
Term Typically Offered: Fall, Spring

MSCI 286. Seminar in Marine Geology. 2 Units
Term Typically Offered: Fall, Spring

Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar.
Note: May be repeated once for credit.

MSCI 287. Seminar In Oceanography. 2 Units
Term Typically Offered: Fall, Spring

Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar.
Note: May be repeated once for credit.

MSCI 298. Research in the Marine Sciences. 1 - 4 Units
Prerequisite(s): Graduate standing and instructor permission.
Term Typically Offered: Fall, Spring

Independent investigations of an advanced character for the graduate student with adequate preparation.
Note: CSUH students must file a petition with their home campus department before admission to this class. CSU Stanislaus students must file Individual Study forms. CSUF students must file Research Approval forms.

MSCI 299. Master's Thesis. 1 - 4 Units
Term Typically Offered: Fall, Spring

Marketing (MKTG)

MKTG 101. Principles Of Marketing. 3 Units
Prerequisite(s): You must be a Business major (any concentration), a business minor or in one of the following majors: Coms/Pub Relations, CM, MET, FACS (Apparel Mktg/Design), FACS (Cons Sci), FASH, GPHD, INTD (Mktg), Rec & Park Mgmt, Photography to enroll in this course.
Term Typically Offered: Fall, Spring

The purpose of this course is to help students develop a working knowledge of marketing. Students will learn about the role marketing plays in an organization, as well as how to plan, implement and evaluate marketing activities. This course builds a foundation for further study in marketing and related fields.

MKTG 115. Marketing Analytics. 3 Units
Prerequisite(s): MKTG 101; and either DS 101 or MKTG 121; or instructor permission
Term Typically Offered: Fall, Spring

The course covers current developments in marketing analytics. Topics include methodologies for market forecasting, estimating market size, and demand; evaluating marketing ROI and customer life time value; modeling of segmentation, positioning, competitive analysis, conjoint analysis, distribution channel analytics, and sales analytics. Students will also learn the latest datamining tools to collect, analyze, and visualize data for decision making and communicating to senior executives.

MKTG 121. Marketing Research and Information. 3 Units
Prerequisite(s): MKTG 101.
Corequisite(s): DS 101
Term Typically Offered: Fall, Spring

Examines the acquisition of information for marketing management decision making, including methods of collection and analysis applicable to secondary and primary data, as this process relates to the management information system. Seminar.

MKTG 122. Buyer Behavior. 3 Units
Prerequisite(s): MKTG 101.
Term Typically Offered: Fall, Spring

Understanding buying as a process in order to develop more effective solutions to marketing problems; an interdisciplinary approach drawing on insights from the behavioral sciences; applications to practical marketing situations. Seminar.

MKTG 123. Public Relations and Ethics in Business. 3 Units
Term Typically Offered: Fall, Spring

Managerial function of evaluating public attitudes toward business firms and other organizations and institutions, and of adjusting policies and executing programs to earn public acceptance and support. Media and method of communicating with the various publics, and problems in responsible leadership.

MKTG 124. Retail Management. 3 Units
Prerequisite(s): MKTG 101.
Term Typically Offered: Fall, Spring

Development, trends, and institutions of retailing; organization and management of retail establishments; principles and policies of retail store operations including location and layout, planning and control of budgets, personnel, pricing and customer services.

MKTG 125. Advertising. 3 Units
Prerequisite(s): MKTG 101.
Term Typically Offered: Fall, Spring

Examination of advertising as a marketing communications tool in profit and nonprofit organizations. Emphasis will be placed on creative methods, alternative media, measurements of effectiveness, and coordination with other aspects of the marketing program through class discussion and written projects. Seminar.

MKTG 126. Salesmanship. 3 Units
Term Typically Offered: Fall, Spring

Principles of the sales process including prospecting, structuring a sales presentation, handling objections, closing and customer relationship management. Application of sales techniques in product and service situations, integration of technology as a sales tool. Includes lectures, role playing, and practice in sales presentations.

MKTG 127. Sales Management. 3 Units
Prerequisite(s): MKTG 101.
Term Typically Offered: Fall, Spring

Individual problems of manufacturer or wholesaler in merchandising; intensive development of the 'selling' function of marketing; duties of the sales manager.

MKTG 129. Marketing Management. 3 Units
Prerequisite(s): MKTG 101 and senior status.
Term Typically Offered: Fall, Spring

Application of marketing principles to the solution of a wide variety of problems and cases including target markets, product selection, channels of distribution, promotion and pricing.
Note: It is a capstone course. It is recommended that students take MKTG 121 and MKTG 122 prior to taking MKTG 129. Seminar.

MKTG 130. Digital Marketing. 3 Units
Prerequisite(s): MKTG 101 and Business majors or Marketing minors only.
Term Typically Offered: Fall, Spring

The purpose of this course is to help students learn and apply emerging marketing techniques to become efficient and effective marketers in the 21st century. Topics covered center on effective marketing in an online environment to help students refine their strategic marketing skills, ability to work effectively in diverse teams, and understanding of the local marketing environment.

MKTG 140. Sports Marketing. 3 Units
Prerequisite(s): MKTG 101
Term Typically Offered: Fall, Spring

The purpose of this course is to help students to integrate principles of marketing and sports industry management. It examines the marketing of sports, teams, athletes, sport arenas, as well as the use of sports related marketing tools (such as sponsorships, celebrity athlete endorsements, promotional licensing) for promoting non-sport consumer and industrial products.

MKTG 160. Principles of Quality Management. 3 Units
Term Typically Offered: Fall, Spring

Study of the major principles of quality management: customer focus, continuous improvement, employee involvement, and process improvement. Use of case studies and a project to gain knowledge in implementing quality management principles. Seminar.

MKTG 181. Supply Chain Logistics Management. 3 Units
Prerequisite(s): OPM 101.
Term Typically Offered: Fall, Spring

Delivery of enhanced customer and economic value through synchronized management of the flow of physical goods and associated information from sourcing through consumption. Examines the management of those activities that facilitate the movement, control and direction of goods and services to create time, place, form and ownership utilities in the global market. Topics include transportation, warehousing, information systems, sourcing, strategic alliances, modeling, purchasing and international operations.

MKTG 186. Advanced Operations Planning and Control. 3 Units
Prerequisite(s): OPM 101.
Term Typically Offered: Fall, Spring

Focuses on effective operations strategies for companies that operate in a dynamic business environment, with an emphasis on in-depth treatments of the decision situations facing managers in charge of related to the planning and control of the flow of goods and services in supply chain systems.

MKTG 188. Supply Chain Modeling and Analysis. 3 Units
Prerequisite(s): OPM 101.
Term Typically Offered: Fall, Spring

Covers modeling and analytics for designing, managing and improving supply chain systems in order to achieve competitive advantages: cost, quality, service, flexibility, adaptability, and sustainability which support business level strategies of cost leadership and differentiation.

MKTG 190. Multinational Marketing. 3 Units
Prerequisite(s): MKTG 101 or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Environmental factors affecting international trade, such as culture and business customs, political factors and constraints, economic development and legal differences, are integrated with the marketing management functions of market potential, analysis marketing research, international organization, channels and distribution, sales promotion, prices, credit, and financing.

MKTG 195. Internship in Marketing. 3 Units
Prerequisite(s): Minimum Sacramento State GPA of 2.5.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental or service agencies for the purpose of increasing student understanding of the nature and scope of their operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to upper division students, subject to permission of the Marketing Area. Petitions can be obtained from the Student Affairs Office, Tahoe 2065. Open to declared business administration majors only.

Credit/No Credit

MKTG 199. Special Problems in Marketing. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

MKTG 199A. Special Problems in Supply Chain Management. 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.

Credit/No Credit

Masters Business Admin (MBA)

MBA 201. Accounting. 2 Units
Term Typically Offered: Fall, Spring

Concepts and models of financial accounting are introduced. Included are the analysis, interpretation and reporting of financial events.

MBA 202. Business Communication. 2 Units
Term Typically Offered: Fall, Spring

Stresses fundamental communication principles and techniques for effective business writing in diverse managerial situations. Participants complete a variety of writing activities, including responding to management communication cases and evaluating written communications using holistic and analytic tools. Within this context, participants are provided an opportunity to achieve an understanding of syntactical and grammatical patterns while improving analytical and logical business writing skills.
Note: This requirement will be waived for students who achieve a score of 4.5 or higher on the Analytical Writing Assessment (AWA) exam. Graduate Writing Intensive (GWI) course.

MBA 203. Legal Environment of Management. 2 Units
Term Typically Offered: Fall, Spring

Intensive study of important aspects of law for managers, including law as an instrument of social and political control. Analyzes selected problems in areas of private law such as contract, tort, business organizations, and agency. In addition, selected issues of administrative law and government regulation of business will be investigated.

MBA 204. Management and Organization Concepts. 2 Units
Term Typically Offered: Fall, Spring

Evolution of management and organization thought; examination of behavioral science variables influencing working relationships among managers, individuals and groups; the study of political and social behavior in organizations; identification, analysis, and synthesis of contemporary concepts and administrative practices; investigation of organization structure, function, and properties leading to an understanding of administration and organization.

MBA 205. Introduction to Managerial Issues in Information Technology. 2 Units
Term Typically Offered: Fall, Spring

Explores from a management perspective, the impact of IT on individuals, organizations, and society. Focuses on how organizations use information systems to solve strategic and operational problems. Topics may include functional information systems, decision support systems, enterprise systems, interorganizational information systems, e-commerce, and business analytics. The relationship between managers and IT personnel will be defined. May include case studies and appropriate software packages.

MBA 206. Managerial Statistics Analysis. 2 Units
Term Typically Offered: Fall, Spring

Computer-based course in data analysis. Business case studies are used to differentiate between common and specific sources of statistical variation and to construct statistical models such as multiple regression, times series, and statistical quality control. Emphasis is placed on intuitive statistical thinking and communication of results.

MBA 207. Finance. 2 Units
Prerequisite(s): ECON 204, MBA 201, MBA 206.
Term Typically Offered: Fall, Spring

Theory and practice in determining the need for, the acquisition of, and the use of funds by organizations. Topics include time value of money, financial analysis, management of working capital, cost of capital, capital budgeting, long-term financing, dividend policy, and internal financing.

MBA 208. Marketing. 2 Units
Prerequisite(s): ECON 204, MBA 201, MBA 203.
Term Typically Offered: Fall, Spring

Application of decision making in solving marketing problems; such as product, place, promotion and price decisions with reference to consumers and users.

MBA 209. Production and Operations Analysis. 2 Units
Prerequisite(s): ECON 204, MBA 201, MBA 206.
Term Typically Offered: Fall, Spring

Study of operational systems; fundamental concepts, tools, and methodologies required to analyze and solve problems of the operations manager. Topics include: work design, facilities design, scheduling, quality control, and inventory management.

MBA 210. Managerial Accounting. 3 Units
Term Typically Offered: Fall, Spring

Management accounting data characteristics and application to internal decisions made by managers. Topics cover management accounting as a tool of business management. Topics generally include product costing, managers' use of accounting data in specific decision frameworks, performance evaluation, and relevant versus strategic analysis. Class participation is encouraged.

MBA 220. Financial Management. 3 Units
Term Typically Offered: Fall, Spring

Financing of corporations and management of corporate resources, short-term and long-term, stressing maximizing shareholder wealth. The case method is used extensively. Both oral and written communication skills are stressed.

MBA 221. Financial Markets. 3 Units
Prerequisite(s): MBA 220 or instructor permission.
Term Typically Offered: Fall, Spring

Behavior of equity, debt, currency, and derivatives markets and the linkages between these markets. Presents the principles of valuations of instruments traded in these markets and the use of these instruments to investors, speculators, hedgers and arbitrageurs.

MBA 222. Security Analysis and Portfolio Management. 3 Units
Term Typically Offered: Fall, Spring

Evaluation of stocks and bonds from the investor's viewpoint. Interpretation of issuers' financial statements to estimate potential future earnings and dividends; and evaluation of the securities' risks and expected returns through analysis of economic, industry and market environment in order to develop conclusions as to the securities' suitability for inclusion in various types of portfolios. Ethical issues faced by practicing security analysts and portfolio managers.

MBA 223. Asset Valuation. 3 Units
Prerequisite(s): MBA 220 or instructor permission.
Term Typically Offered: Fall, Spring

Advanced concepts and techniques essential to asset valuation. Key topics include, but not limited to, free cash flow, price multiples, asset-based and contingent claim valuations. Applications of various valuation techniques are emphasized.

MBA 224. Advanced Investment Strategies. 3 Units
Prerequisite(s): MBA 222 (may be taken concurrently) or permission of instructor.
Term Typically Offered: Fall, Spring

Theoretical and empirical applications of fund formation models. Emphasis is placed on model development strategies based on analyzing secondary sources of financial data. The quality of models is assessed in terms of their logical consistency, robustness of underlying theoretical assumptions, and predicative power. Development, analysis and predicative assessment are conducted within the Excel environment.

MBA 225. Financial Aspects of Health Care Administration. 3 Units
Term Typically Offered: Fall, Spring

Financing in health care institutions will be studied; including planning and control features involving budgets, funds flow, funding sources, and factors affecting finance in the health care industry. Analyzes will be made of the relationships and effects on health care finance of such factors as labor, business, government, insurance, research, and demography.

MBA 230. Behavior Science Applications in Management. 3 Units
Term Typically Offered: Fall, Spring

Behavioral science theories, concepts, and practices in current use in private and public organizations. Critical evaluation of research supporting those practices.

MBA 231. Managing in High Performance Work Organizations. 3 Units
Term Typically Offered: Fall, Spring

This course focuses on contemporary problems, issues, and objectives relating to the value of collaboration with control in maximizing human capital effectiveness in high performance work organizations. Course work will include research projects, experiential case studies and in-class simulations to help students better understand human capital effectiveness and learn how to serve multiple stakeholders' interests across different sectors such as private, public, healthcare and information technology.

MBA 232. Negotiation and Relationship Management. 3 Units
Term Typically Offered: Fall, Spring

Investigation of the formal and informal methods of dispute resolution including negotiating, litigation, administrative hearings, arbitration, mediation, ombudsperson, summary jury trial, private judging, and fact finding. Emphasizes the application of these methods to organization, business, and public sector disputes.

MBA 233. Seminar in Organization Development. 3 Units
Prerequisite(s): MBA 230 or equivalent.
Term Typically Offered: Fall, Spring

Seminar focusing on individual and organization responses to a changing environment. Includes assumptions and values of organization development; action research; personal, team and intergroup interventions; consultant-client relationships and instrumentation. Cases, laboratory experience, workshop and field analysis techniques are utilized.

MBA 234. Industrial Relations. 3 Units
Term Typically Offered: Fall, Spring

Dual approach emphasizing in-depth analysis of both the philosophical and the practical aspects of industrial relations. The impact of social, economic, and political forces, and their interaction with union and management institutions and public policies. Analyzes relationships between organized employees and employers, the bargaining process, strategies and issues, contract administration, and impasse resolution processes.

MBA 235. Management Of Innovation. 3 Units
Term Typically Offered: Fall, Spring

Synthesis of specialized problems relating to the acquisition, introduction, and utilization of innovations and technological advances by managers in business, industry, government, profit or nonprofit organizations. Current research, thinking methodology dealing with the economics and social impact, sources, barriers, and transfer mechanisms of innovations and technological advances will be investigated.

MBA 236. Current Topics and Processes in Organizational Development. 3 Units
Term Typically Offered: Fall, Spring

Explores contemporary frameworks for dealing with change in today's organizations. Contemporary processes and topics are presented in the context of these frameworks. Lectures and readings may be supplemented by experiential work and firsthand observations of local organizations.

MBA 240. Marketing Management. 3 Units
Term Typically Offered: Fall, Spring

Marketing policy for channels of distribution, pricing brands, advertising, and sales as interrelated at the executive level. Designed to develop capacity for sound decision making by marketing managers.

MBA 241. Marketing and Its Environments. 3 Units
Term Typically Offered: Fall, Spring

Analyzes the firm's or public agency's external environments, forces of change within them, and their influence on the organization's strategies and actions.

MBA 242. Marketing Problems. 3 Units
Term Typically Offered: Fall, Spring

Consideration of current problems and issues in marketing from the perspective of the individual firm or public agency.

MBA 243. Global Marketing Environment. 3 Units
Term Typically Offered: Fall, Spring

An in-depth coverage of a marketing functions in global environment. Explores traditional and contemporary theories, strategies, practices, and issues of international marketing, develops skills required for entry and maintaining presence on the foreign markets.

MBA 244. Research Methodology. 3 Units
Term Typically Offered: Fall, Spring

Problem-solving approach will emphasize the need to impart tools and skills to formulate and design projects which satisfy action or policy needs. Search for relevant information. Methodologies and research strategies. Data collection and analysis. Measurement and statistical inference. Experimentation and simulation. Instrument survey design. Ethical implications. Report preparation and presentation of results for effective communication.

MBA 251. Real Estate Finance and Investment. 3 Units
Term Typically Offered: Fall, Spring

Concept and methods used to analyze equity investment in income-producing properties such as apartments, office buildings, and retail. Topics include market analysis, leasing and property income streams, financial structuring, taxation of real estate operations and transactions, the theory and methods used to assess the performance of individual real estate projects, alternative ownership structures, recent innovations in real estate capital markets, material on regulatory restrictions, taxation, and mixed assets portfolio analysis. Use of computer models for investment decision-making.

MBA 252. Mortgage Markets: Institutions, Securities, and Strategies. 3 Units
Term Typically Offered: Fall, Spring

Provides an understanding of mortgage markets and the knowledge required to make financing and lending decisions. Topics include sources of funds, mortgage design and analysis of financing alternatives; mortgage origination, risks in real estate loans, forecasting loan performance, loan modifications and workout strategies, foreclosure, bankruptcy and REOs; secondary mortgage markets and mortgage-backed securities; development and construction financing, risks in construction performance and project management; and management of interest rate risk. Use of computer models for decision-making.

MBA 253. Seminar in Real Estate Development. 3 Units
Prerequisite(s): MBA 251, PPA 250, advanced to candidacy, and instructor permission.
Term Typically Offered: Fall, Spring

Capstone course in urban land development. Case problems and theoretical issues in such areas as debt and equity financing, feasibility analysis, land use regulation, market analysis, risk management, site selection, and taxation of income-producing properties.

MBA 260. Management of Technology Intensive Enterprises. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Use of information technology (IT) as management resource. Focus is on management decision-making related to telecommunications, data-bases, system development, and decision support systems. Use of technology to reengineer the business organization.

MBA 261. Integrated Business Process Management. 3 Units
Term Typically Offered: Fall, Spring

Study the concept of integrated business process management using ERP tools and software to enhance growth and productivity as the diverse functions of an organization are combined into one comprehensive, interrelated, and optimized system. Demonstrate how enterprise level information systems can achieve organizational goals by providing decision makers with accurate, consistent, current, timely, and relevant information and knowledge. Understand the techniques and skills for successful implementation of ERP systems. Explore the latest trends and development in ERP technologies.

MBA 262. Integrated IT in Healthcare. 3 Units
Term Typically Offered: Fall, Spring

This course examines methodologies, tools and applications used for developing and managing information to improve service and make decisions in healthcare. Topics include design, implementation and management of enterprise information systems, health information systems, and electronic medical records, along with other managerial issues such as information privacy and security.

MBA 263. Project and Outsourcing Management. 3 Units
Term Typically Offered: Fall, Spring

Cover the knowledge, skills, and principles required to organize, plan, and control projects and outsourcing activities. Topics include a review of project characteristics and risks, development executive objectives, organization structure and interfaces, information management, and control techniques.

MBA 264. Business Intelligence. 3 Units
Term Typically Offered: Fall, Spring

Cover the processes, methodologies, infrastructure, framework, and current practices used to transform business data into useful information and knowledge for IT-enabled managerial decision support and performance improvement. Data-orientated techniques for corporate performance management and decision making, as well as methodologies for business process improvement, are emphasized. Foundation knowledge in data storage and retrieval, logical data models for database management systems and data warehouses, and security-related issues are discussed.

MBA 270. Global Business Management. 3 Units
Term Typically Offered: Fall, Spring

Provides graduate students an understanding of the management approaches of multinational corporations in dealing with operational differences in various countries. Topics include such areas as: foreign investment decisions, relations with host governments, and organizational planning.

MBA 271. Integrated Entrepreneurship Management. 3 Units
Term Typically Offered: Fall, Spring

Explore multi-dimensions of entrepreneurship including the entrepreneurial initiatives in a corporate context. As a nascent entrepreneur, students are to evaluate new venture opportunities and to understand the entire process of a new venture creation. In corporate settings, students are to understand the innovation and change management of established firms to accomplish their sustainable competitive advantages.

MBA 272. Entrepreneurial Resources Management. 3 Units
Term Typically Offered: Fall, Spring

Study the concepts of identifying and managing talent in entrepreneurial ventures. Demonstrate through theories, empirical evidence, case studies and simulations, the value of sustainable human resource management in new and established enterprises.

MBA 280. Value Chain Integration. 3 Units
Prerequisite(s): classified or conditionally classified graduate student in the College of Bus Admin
Term Typically Offered: Fall, Spring

Study the current state of enterprise value chains from an operation management perspective. Discuss contemporary issues regarding supply and operations management of organizations including profit and nonprofit, service and manufacturing organizations. Integrative topics will be selected among issues affecting an organization's value chain at operational, strategic, and economic levels.

MBA 281. Quality and Process Improvement in Healthcare. 3 Units
Prerequisite(s): classified or conditionally classified graduate student in the College of Bus Admin
Term Typically Offered: Fall, Spring

Discuss contemporary developments and methods in managing quality and process improvement in the healthcare industry. Topics include: Healthcare quality, leadership, teambuilding and project management; quality management processes and tools; quality measurement and management; human participation and organizational design in healthcare quality management; quality and process improvement initiatives; Lean and Six Sigma methodologies for continuous process improvement; process and systems integration; and emerging trends in healthcare quality management.

MBA 282. Global Supply Chain Management. 3 Units
Prerequisite(s): classified or conditionally classified graduate student in the College of Bus Admin
Term Typically Offered: Fall, Spring

A comprehensive study of the basic concepts, methods, processes, and strategies used in the design, development and management of global of supply chains. Topics include: defining the supply chain on a global scale, designing global supply chain networks, global procurement, strategic alliances, global logistics, supply chain-orientated product design, quantitative and qualitative tools for supply chain management and current industry initiatives.

MBA 294. Cooperative Education Experience in Management. 6 - 12 Units

Prerequisite(s): Minimum overall GPA of 3.0.
Term Typically Offered: Fall, Spring

In-depth supervised work experience in management for the purpose of exposing the students to comprehensive management experience in business, government, or service agencies.
Note: Open to all classified graduate students, subject to permission of the Associate Dean for Graduate and External Programs. Units do not apply toward degree.

Credit/No Credit

MBA 295A. Internship In Finance. 3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.

Credit/No Credit

MBA 295B. Internship In Marketing. 3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.

Credit/No Credit

MBA 295C. Internship in Operations Management. 3 Units
Prerequisite(s): Classified graduate status; minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.

Credit/No Credit

MBA 295D. Internship in Organizational Behavior and Management. 3 Units
Prerequisite(s): Classified graduate status; completion of graduate foundation courses plus 6 units of the second year requirement, minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.

Credit/No Credit

MBA 295E. Internship in Urban Land Development. 3 Units
Prerequisite(s): Classified graduate status; completion of graduate foundation courses plus 6 units of the second year requirement, minimum Sacramento State GPA of 3.0 required.
Term Typically Offered: Fall, Spring

Supervised work experience in business, governmental service, or agencies for the purpose of increasing and enhancing student understanding of the nature and scope of the organization's operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Open to second year MBA and MSBA/MIS students. Petitions are obtained from Tahoe Hall 2065.

Credit/No Credit

MBA 296. Experimental Offerings in MBA. 3 Units
Term Typically Offered: Fall, Spring

When a sufficient number of qualified students apply, a faculty member may conduct a seminar on a designated advanced topic in the MBA program.
Note: May be repeated for credit

MBA 299A. Special Problems in Finance. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions are obtained from Tahoe Hall 1035.

Credit/No Credit

MBA 299B. Special Problems in Marketing. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions are obtained from Tahoe Hall 1035.

Credit/No Credit

MBA 299C. Special Problems in Operations Management. 1 - 3 Units
Prerequisite(s): Classified graduate status
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member supervising work in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions are obtained from Tahoe Hall 1035.

Credit/No Credit

MBA 299D. Special Problems in Organizational Behavior and Management. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member under whom the individual work is to be conducted in addition to the approval of the Associate Dean for Graduate and External Programs. Petitions to be obtained from the CBA Graduate Programs Office, Tahoe Hall 1035.

Credit/No Credit

MBA 299E. Special Problems in Urban Land Development. 1 - 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work.
Note: Admission requires approval of faculty member under whom the individual work is to be conducted in addition to the approval of the Graduate Program Office. Petitions to be obtained from the CBA Graduate Programs Office, Tahoe Hall 1035.

Credit/No Credit

MBA 500A. Thesis. 3 Units
Prerequisite(s): Advanced to candidacy; completion of MBA 244.
Term Typically Offered: Fall, Spring

Completion of a thesis approved for the Master's degree.

MBA 500B. Project. 1 - 3 Units
Prerequisite(s): Advanced to candidacy; completion of MBA 244.
Term Typically Offered: Fall, Spring

Completion of a project approved for the Master's degree.

MBA 500C. Comprehensive Examination. 1 Unit
Prerequisite(s): Advanced to candidacy. For comprehensive examination for MBA only, completion of Program Requirements (MBA 210, MBA 220, MBA 230, MBA 420, MBA 270, MBA 280).
Term Typically Offered: Fall, Spring

MBA 501. Culminating Experience Project in Business and Strategy. 3 Units
Prerequisite(s): Advanced to candidacy
Term Typically Offered: Fall, Spring

Each student conducts an individual project to fulfill the culminating experience graduation requirement of the MBA program as required in Title V of the CA educational Code. The course also covers the competitive strategy of a firm, investigates competitive position, strategic capabilities, inter-firm dynamics, and strategic levers of firms. It integrates the accumulative knowledge, skills and techniques delivered in the program to review the strategy process executives employ for effective decision making.
Note: May be repeated for credit.

Math Learning Skills (MLSK)

MLSK 7A. Making Sense Of Algebra. 4 Units
Prerequisite(s): Score of 34 or below on the ELM Test.
Term Typically Offered: Fall, Spring

Review of fundamental mathematics concepts, measurement geometry, and beginning algebra.

MLSK 7B. Making Sense Of Algebra. 4 Units
Prerequisite(s): LS 7A or MLSK 7A.
Term Typically Offered: Fall, Spring

Review of beginning algebra, algebra topics, and measurement geometry.

MLSK 8A. Individualized Algebra. 2 Units
Prerequisite(s): Instructor permission and pre-algebra competency.
Term Typically Offered: Fall, Spring

First in a three course sequence to prepare students for Math 1. Delivered at a slower pace than other preparatory math courses. Upon completion of the three course sequence, students must enroll in MATH 1.

MLSK 8B. Individualized Algebra. 2 Units
Prerequisite(s): Instructor permission and pre-algebra competency.
Term Typically Offered: Fall, Spring

Second in a three course sequence to prepare students for Math 1. A continuation of topics in MLSK 8A. Delivered at a slower pace than other preparatory math courses. Upon completion of the three course sequence, students must enroll in MATH 1.

MLSK 8C. Individualized Algebra. 2 Units
Prerequisite(s): Instructor permission and pre-algebra competency.
Term Typically Offered: Fall, Spring

Last in a three course sequence designed to prepare students for Math 1. A continuation of topics addressed in MLSK 8B. Delivered at a slower pace than other preparatory math courses. Upon completion of the three course sequence, students must enroll in MATH 1.

MLSK 10A. Elementary Algebra with Geometry. 4 Units
Prerequisite(s): Score of 36-48 on the ELM Test.
Term Typically Offered: Fall, Spring

Review of fundamental mathematical concepts, basic measurement geometry and beginning algebra. Instruction provided through lecture or structured tutorial format.
Note: May utilize computers.

MLSK 10X. Geometry Adjunct to Math 9. 1 Unit
Prerequisite(s): Score of 44-48 on the ELM.
Corequisite(s): MATH 9.
Term Typically Offered: Fall, Spring

Review of measurement geometry and tutorial support for students concurrently enrolled in Math 9.

MLSK 195A. Learning Skills Tutoring Internship. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Practical application of learning through the tutoring of students.
Note: May be repeated for credit.

Credit/No Credit

MLSK 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed study.
Note: Requires approval of faculty member and Department Chair; may be repeated for credit.

Credit/No Credit

Mathematics (MATH)

MATH 1. Mathematical Reasoning. 3 Units
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Recommended for students whose majors do not include a specific mathematics requirement. Objectives are to show some of the essence and quality of mathematics, and to enhance precision in the evaluation and expression of ideas, thereby developing a student's quantitative reasoning skills. Designed to give students an understanding of some of the vocabulary, methods, and reasoning of mathematics with a focus on ideas.

MATH 10. Essentials of Algebra. 3 Units
Term Typically Offered: Fall, Spring, Summer

Prepares students for courses requiring fundamental algebra skills. Topics include: review of basic algebra; scientific notation, rounding, and percents; factoring; exponents; linear equations and inequalities with applications; quadratic equations with applications; graphing with applications; absolute value equations and inequalities; systems of linear equations and inequalities; and an introduction to exponential and logarithmic expressions.

MATH 12. Algebra for College Students. 4 Units
Term Typically Offered: Fall, Spring, Summer

Prepares students for Pre-calculus and other higher math courses requiring intermediate algebra. Topics include: linear equations and inequalities, absolute value equations and inequalities, systems of linear equations, quadratic equations, polynomial expressions and equations, rational expressions and equations, roots and radicals, and exponential & logarithmic properties and equations.

MATH 15H. Honors Mathematical Reasoning. 3 Units
Prerequisite(s): Open only to Honors students.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Introduction to the composition and interpretation of mathematical ideas and to the mathematical reasoning necessary to derive results in a variety of mathematical topics. Emphasis on developing concepts and analyzing results.

MATH 17. An Introduction to Exploration, Conjecture, and Proof in Mathematics. 3 Units
Prerequisite(s): Score of 46 or higher on ALEKS PPL exam or MATH 10
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Prepares students for MATH 107A and MATH 107B. Students will explore mathematical patterns and relations, formulate conjectures, and prove their conjectures. Topics from number theory, probability and statistics, and geometry.

MATH 24. Modern Business Mathematics. 3 Units
Prerequisite(s): Score of 51 or higher on ALEKS PPL exam or MATH 10
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Mathematics for business world, including functions, math of finance, linear programming and rates of change. Applications to economics and business will be emphasized throughout.

MATH 26A. Calculus I for the Social and Life Sciences. 3 Units
Prerequisite(s): Score of 61 or higher on ALEKS PPL exam or MATH 12
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Limits, differentiation with applications, integration and applications in the Social Sciences and Life Sciences.

MATH 26B. Calculus II for the Social and Life Sciences. 3 Units
Prerequisite(s): MATH 26A or appropriate high school based AP credit.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Continuation of MATH 26A, integration and applications to the Social Sciences and Life Sciences. Multi-variate analysis including partial differentiation and maximization subject to constraints; elementary differential equations; sequences and series. Calculus of the trigonometric functions as time allows.
Note: Not open to students already having credit for MATH 31 or equivalent.

MATH 29. Pre-Calculus Mathematics. 4 Units
Prerequisite(s): Score of 61 or higher on ALEKS PPL exam or MATH 12
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Designed to prepare students for calculus. Topics: trigonometry, points and lines in the Cartesian plane; lines and planes in space; transformation of coordinates; the conics; graphs of algebraic relations; the elementary transcendental functions.

MATH 29A. Pre-Calculus Mathematics A. 2 Units
Prerequisite(s): MATH 12
Term Typically Offered: Fall, Spring, Summer

First semester of a two semester course that is designed to prepare students for calculus. Topics: functions and graphs, polynomial functions, rational functions and applications. Lecture two hours.

MATH 29B. Pre-Calculus Mathematics B. 2 Units
Prerequisite(s): MATH 29A.
Corequisite(s): MATH 29M.
Term Typically Offered: Fall, Spring, Summer

Second semester of a two semester course that is designed to prepare students for calculus. Topics: exponential and logarithmic functions, trigonometric functions, analytic geometry, and applications. Lecture two hours.

MATH 29L. Lab for Pre-Calculus Math A. 1 Unit
Corequisite(s): MATH 29B.
Term Typically Offered: Fall, Spring

Workshop designed to deepen the understanding of pre-calculus developed in MATH 29A.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree.
Laboratory

MATH 29M. Lab for Pre-Calculus Math B. 1 Unit
Corequisite(s): MATH 29B.
Term Typically Offered: Fall, Spring

Workshop designed to deepen the understanding of pre-calculus developed in MATH 29B.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree.
Laboratory

MATH 30. Calculus I. 4 Units
Prerequisite(s): Score of 76 or higher on ALEKS PPL exam or MATH 29 or MATH 29B
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Functions and their graphs; limits; the derivative and some of its applications; trigonometric and hyperbolic functions and their inverses; the integral; the fundamental theorem; some applications of the integral.

MATH 30L. Laboratory for First Semester Calculus. 1 Unit
Corequisite(s): Enrollment in a designated section of MATH 30.
Term Typically Offered: Fall, Spring

Workshop designed to deepen the understanding of calculus developed in MATH 30.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree.
Laboratory

Credit/No Credit

MATH 31. Calculus II. 4 Units
Prerequisite(s): MATH 30 or appropriate high school based AP credit.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

MATH 30 continuation. Methods of integration; improper integrals; analytic geometry; infinite sequences and series.

MATH 31L. Laboratory for Second Semester Calculus. 1 Unit
Corequisite(s): Enrollment in a designated section of MATH 31.
Term Typically Offered: Fall, Spring, Summer

Workshop designed to deepen the understanding of calculus developed in MATH 31.
Note: May be taken for workload credit toward establishing full-time enrollment status, but is not applicable to the baccalaureate degree.
Laboratory

Credit/No Credit

MATH 32. Calculus III. 4 Units
Prerequisite(s): MATH 31.
Term Typically Offered: Fall, Spring, Summer

Continuation of Calculus II. Algebra and calculus of vectors; functions of several variables; partial differentiation; multiple integration; vector analysis.

MATH 35. Introduction to Linear Algebra. 3 Units
Prerequisite(s): MATH 30 or appropriate high school based AP credit.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Careful development of matrices, systems of equations, determinants, vector spaces, linear transformations, orthogonality, real and complex eigenvalues; R3 viewed as a vector space with generalization to Rn.

MATH 45. Differential Equations for Science and Engineering. 3 Units
Prerequisite(s): MATH 31.
Term Typically Offered: Fall, Spring, Summer

First order differential equations, second order differential equations with constant coefficients. Laplace transforms, small systems of linear differential equations, numerical methods, introduction to second order differential equations with variable coefficients.

MATH 96E. Elem Math Content Adv Viewpoin. 1 Unit
Term Typically Offered: Fall, Spring, Summer

MATH96E is a 1-unit, 1-week early start course for baccalaureate credit designed to prepare students for fall GE area B4. Working independently and collaboratively, students will use an inquiry-based approach to learning through research, reflection, and engagement with real world scenarios. Students will develop various academic literacies in order to understand the conventions of quantitative reasoning required for success in a college setting.
Cross listed: ALS 96

Credit/No Credit

MATH 99. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Permits a student to pursue study and research in an area not otherwise available through the regular curriculum.
Note: Open only to students who appear competent to carry on individual work; admission requires the approval of the faculty member under whom individual work is to be conducted, and approval of the advisor and the Department Chair.

Credit/No Credit

MATH 100. Applied Linear Algebra. 3 Units
Prerequisite(s): MATH 26B or MATH 31.
Term Typically Offered: Fall, Spring

Linear algebra and its elementary applications. Topics: Matrix algebra; simultaneous linear equations; linear dependence and vector spaces; rank and inverses; determinants; numerical solution of simultaneous linear equations; linear transformations; eigenvalues and eigenvectors; unitary and similarity transformations; quadratic forms.
Note: May not be taken for credit toward a mathematics major.

MATH 101. Combinatorics. 3 Units
Prerequisite(s): MATH 31
Term Typically Offered: Spring only

Introduction to the art of counting. The focus will be on actually listing the objects being counted in small cases and using the knowledge gained in working with small cases to build toward general principles. Sum and product principles, models of counting, permutations and combinations, equivalence relations and partitions, inclusion-exclusion principle, recurrence relations, and generating functions.

MATH 102. Number Theory. 3 Units
Prerequisite(s): MATH 31.
Term Typically Offered: Fall, Spring

Theory of divisibility; some number theoretical functions; congruencies (linear and quadratic); some Diophantine equations. Simple continued fractions.

MATH 104. Vector Analysis. 3 Units
Prerequisite(s): MATH 32.
Term Typically Offered: Spring only

Vector and scalar fields, integral theorems, orthogonal curvilinear coordinates, vector spaces and linear transformations, applications to physical fields and operators.

MATH 105A. Advanced Mathematics for Science and Engineering I. 4 Units
Prerequisite(s): MATH 32, MATH 45.
Term Typically Offered: Fall only

Survey of second order linear differential equations, power series and Fourier series solutions, solution of partial differential equations by separation of variables.

MATH 105B. Advanced Mathematics for Science and Engineering II. 4 Units
Prerequisite(s): MATH 105A.
Term Typically Offered: Spring only

Partial differential equations continued, complex function theory and its applications.

MATH 107A. Fundamental Mathematical Concepts. 3 Units
Prerequisite(s): MATH 17 and either a score of 46 or higher on ALEKS PPL exam or MATH 10
Term Typically Offered: Fall, Spring

First half of a one-year course in the structure of the real number system and its sub-systems and in the basic properties and concepts of geometry. Topics will include: definitions and properties of set theory and their use in the development of the natural and whole number systems, definitions and properties of the arithmetic relations and operations for the natural numbers, whole numbers, integers.
Note: May not be taken for credit toward a mathematics major or minor.

MATH 107B. Fundamental Mathematical Concepts. 3 Units
Prerequisite(s): MATH 107A.
Term Typically Offered: Fall, Spring

Continuation of MATH 107A. Topics will include: rational numbers, real numbers, measurement, Euclidean Geometry.
Note: May not be taken for credit toward a mathematics major or minor.

MATH 107C. Elementary Mathematics and the Learning Process. 3 Units
Prerequisite(s): MATH 17, MATH 107A or MATH 107B, and CHDV 30 or CHDV 35.
Term Typically Offered: Fall, Spring

Students will build on their understanding of material of Math 17, Math 107A/B by deepening their understanding of the concepts taught in these courses. This will be done by examining these concepts in relationship to theories of learning and development. Students will examine mathematical concepts related to K-8 with respect to the treatment of reasoning, communication, and the perspective of cognitive and social constructivism; and throughout the course will consider the question of 'What is mathematics?' and 'How is mathematics learned?

MATH 108. Introduction to Formal Mathematics. 3 Units
Prerequisite(s): MATH 31, MATH 35.
Term Typically Offered: Fall, Spring

Logic of mathematical proof, set theory, relations, functions. Examples and applications from set cardinality, algebra, and analysis.

MATH 110A. Modern Algebra. 3 Units
Prerequisite(s): MATH 108.
Term Typically Offered: Fall, Spring

First half of a one-year introductory course in algebraic concepts. Topics include: groups, subgroups, properties of groups, permutation groups, factor groups, homomorphism theorems.

MATH 110B. Modern Algebra. 3 Units
Prerequisite(s): MATH 110A.
Term Typically Offered: Fall, Spring

Continuation of MATH 110A.
Note: Topics include

MATH 117. Linear Algebra. 3 Units
Prerequisite(s): MATH 110A.
Term Typically Offered: Fall, Spring

Abstract linear spaces and linear transformations; invariant subspaces; canonical forms.

MATH 121. College Geometry. 3 Units
Prerequisite(s): MATH 31; MATH 32 or MATH 35.
Term Typically Offered: Fall, Spring

Study of the axioms and theorems of Euclidean geometry. A comparison of several geometry axiom systems and their theorems, including those of some non-Euclidean and finite geometries.

MATH 130A. Functions of a Real Variable. 3 Units
Prerequisite(s): MATH 32 and MATH 108.
Term Typically Offered: Fall, Spring

First half of a one-year upper division course in functions of a real variable. The first semester will consist of a rigorous development of the theory of real-valued sequences and continuity and differentiation for functions of one real variable.

MATH 130B. Functions of a Real Variable. 3 Units
Prerequisite(s): MATH 130A.
Term Typically Offered: Fall, Spring

Continuation of MATH 130A. This semester will be devoted to a rigorous development of the theory of Riemann integration, infinite series, and sequences and series of functions.

MATH 134. Functions of a Complex Variable and Applications. 3 Units
Prerequisite(s): MATH 32.
Term Typically Offered: Spring only

Complex plane; analytic functions; integration and Cauchy's Theorem; sequences and series; residue calculus; applications to potential theory; Fourier and Laplace transforms.

MATH 150. Introduction to Numerical Analysis. 3 Units
Prerequisite(s): MATH 31
Term Typically Offered: Spring only

Numerical solutions of algebraic and transcendental equations; interpolation, inverse interpolation, finite differences, cubic splines, and applications; numerical differentiation and integration; direct and iterative numerical solutions of linear systems; discrete and continuous least squares approximation.

MATH 161. Mathematical Logic. 3 Units
Prerequisite(s): MATH 108.
Term Typically Offered: Fall, Spring

Advanced study of logic with special application to mathematics.

MATH 162. Set Theory. 3 Units
Prerequisite(s): MATH 108.
Term Typically Offered: Fall only

Axiomatic study of set theory. Topics usually considered include: relations and functions; set theoretical equivalence; finite and infinite sets; cardinal arithmetic; ordinal numbers and transfinite induction; variants of the Axiom of Choice.

MATH 170. Linear Programming. 3 Units
Prerequisite(s): MATH 31; MATH 35 or MATH 100.
Term Typically Offered: Fall only

Theory of linear programming, duality, simplex method, integer programming, applications.

MATH 190. History Of Mathematics. 3 Units
Prerequisite(s): MATH 31 and upper division status in mathematics.
Term Typically Offered: Fall, Spring

Study of the development of mathematical ideas and techniques and their impact on the general course of the history of western civilization.

MATH 193. Capstone Course for the Teaching Credential Candidate. 3 Units
Prerequisite(s): Successful completion of at least five of the following: MATH 102, MATH 110A, MATH 110B, MATH 121, MATH 130A, MATH 130B or MATH 190; MATH 110A or MATH 130A may be taken concurrently.
Term Typically Offered: Fall, Spring

Reviews the major themes presented in the upper division program in Mathematics, and relates the themes to junior high school and high school curriculum. Required for all subject matter students.
Note: Not accepted for credit for non-Teaching Credential students.

MATH 196K. Introduction to Differential Geometry. 3 Units
Prerequisite(s): MATH 32, and MATH 35 or instructor's permission
Term Typically Offered: Spring only

Calculus methods are applied to the study of curves and surfaces in three dimensional space. After an introduction to the geometry of curves (curvature, torsion, and Frenet's formulas), the course explores the geometry of surfaces. Some of the geometrical properties of a surface that will be investigated are its first and second fundamental forms, its various curvatures (normal, principal, mean, and Gaussian curvatures), and its geodesic curves.

MATH 198. Seminar for Mathematics Tutors. 2 Units
Prerequisite(s): Students must be working as tutors in a campus-based program.
Term Typically Offered: Fall, Spring

Supports Sacramento State students who are working in tutorial and related roles in mathematics programs on campus. Focus on questioning as a fundamental strategy for teaching mathematics, on classroom observation, and on communication among mathematics instructors in support of effective teaching and learning.
Note: May be repeated up to two times for credit.

Credit/No Credit

MATH 199. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to those students who appear competent to carry on individual work. Admission to this course requires the approval of the faculty member under whom the individual work is to be conducted, in addition to the approval of the advisor and the Department Chair.
Credit/No Credit

MATH 210A. Algebraic Structures. 3 Units
Prerequisite(s): MATH 110B.
Term Typically Offered: Fall, Spring

General algebraic systems and concepts; groups.

MATH 210B. Algebraic Structures. 3 Units
Prerequisite(s): MATH 210A.
Term Typically Offered: Fall, Spring

Fields; vector spaces; Galois theory.

MATH 220A. Topology. 3 Units
Prerequisite(s): MATH 130B.
Term Typically Offered: Fall, Spring

Point set topology, continuity, compactness, connectedness.

MATH 220B. Topics In Topology. 3 Units
Prerequisite(s): MATH 220A.
Term Typically Offered: Fall, Spring

Continuation of MATH 220A with topics selected from: General topology/ Foundations, Geometric Topology, Continuum Theory, Homology Theory, Homotopy Theory, Topological Dynamics.
Note: May be taken twice with approval of the graduate coordinator.

MATH 230A. Real Analysis. 3 Units
Prerequisite(s): MATH 130B.
Term Typically Offered: Fall, Spring

Metric topology; the theory of the derivative; measure theory.

MATH 230B. Real Analysis. 3 Units
Prerequisite(s): MATH 230A.
Term Typically Offered: Fall, Spring

Continuation of MATH 230A, with topics selected from: Theory of the integral, including Riemann, Riemann Stieltjes, and Lebesque integrals.
Note: May be taken twice with approval of the graduate coordinator.

MATH 234A. Complex Analysis. 3 Units
Prerequisite(s): MATH 130B; MATH 105B or MATH 134 is recommended.
Term Typically Offered: Fall, Spring

Complex numbers, complex functions, analytic functions, complex integration, harmonic functions.

MATH 234B. Topics in Complex Analysis. 3 Units
Prerequisite(s): MATH 234A.
Term Typically Offered: Fall, Spring

Continuation of MATH 234A with topics selected from: Partial Fractions and Infinite Products, Entire Functions, Riemann Zeta Function, Normal Families, Riemann Mapping Theorem, Conformal Mapping of Polygons, Dirihclet Problem, Analytic Continuation.
Note: May be taken twice with approval of the graduate coordinator.

MATH 241A. Methods of Applied Mathematics. 3 Units
Prerequisite(s): MATH 134 recommended.
Term Typically Offered: Fall, Spring

Topics from: Hilbert Space Theory, Operators on Hibert Space, Generalized Functions with Applications to Sturm-Liouville Theory and Partial Differential Equations.
Note: May be repeated for credit provided topic is not repeated.

MATH 241B. Topics in Applied Mathematics. 3 Units
Prerequisite(s): MATH 241A.
Term Typically Offered: Fall, Spring

Continuation of MATH 241A with topics: Calculus of Variations, Functional Analysis, Dynamical Systems, Integral Equations, Sobolev Spaces, Fourier Analysis, Potential Theory, and Optimal Control Theory.
Note: May be taken twice with approval of the graduate coordinator.

MATH 296B. Theory of Numbers. 3 Units
Prerequisite(s): Math 110A or equivalent.
Term Typically Offered: Fall, Spring

This class will cover divisibility properties of the integers, primes and primality tests, modular arithmetic, Chinese Remainder Theorem, quadratic reciprocity and quadratic forms, arithmetic functions, the Mobius inversion formula, and Diophantine equations. Possible additional topics include elliptic curves, algebraic numbers, primes in arithmetic progressions, the geometry of numbers and encryption.

MATH 299. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Any properly qualified student who wishes to pursue a problem may do so if the proposed subject is acceptable to the supervising instructor and to the student's advisor.
Credit/No Credit

MATH 316. The Psychology of Mathematics Instruction. 2 Units
Prerequisite(s): Admission to the Mathematics Blended Program.
Term Typically Offered: Fall only

A survey course for students in the Blended Program in Mathematics that relates broad areas of educational psychology and theories of learning to instruction in the secondary mathematics classroom. The focus is on practical applications of theories through the design of lesson and unit plans. Students will design learning activities for diverse classes of learners, including English Language Learners, and build and refine assessment plans that include formative assessments. Lecture two hours.

MATH 371A. Schools and Community A. 2 Units
Corequisite(s): Enrollment in EDTE 470A.
Term Typically Offered: Fall, Spring

The first of a two-part sequence supporting student teachers in the Mathematics Blended Program. Focus is on strategies for secondary mathematics instruction, the process of reflection on teaching, communication among mathematics teachers in support of effective teaching and learning, strategies for engagement, questioning, creating a safe classroom environment, classroom management, assessment, and familiarity with school and community resources. Emphasis on issues related to English Language Learners, special needs students, and intervention strategies. Seminar two hours.
Credit/No Credit

MATH 371B. Schools and Community B. 2 Units
Corequisite(s): Enrollment in EDTE 470B.
Term Typically Offered: Fall, Spring

The second of a two-part sequence supporting student teachers in the Mathematics Blended Program. Focus is on strategies for secondary mathematics instruction, the process of reflection on teaching, communication among mathematics teachers in support of effective teaching and learning, strategies for engagement, questioning, creating a safe classroom environment, classroom management, assessment, and familiarity with school and community resources. Emphasis on issues related to English Language Learners, special needs students, and intervention strategies. Seminar two hours.
Credit/No Credit

MATH 500. Culminating Experience. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Directed reading programs for master's candidates preparing for written comprehensive examinations.

Mechanical Engineering (ME)

ME 37. Manufacturing Processes. 3 Units
Term Typically Offered: Fall, Spring, Summer

Principles of manufacturing processes in the areas of metal removal, forming, joining and casting and fundamentals of numerical control. Study includes applications of equipment, e.g., lathe, milling machine, drill press, saw, grinder, welder, molding equipment and core makers. Emphasis on safety during hands-on operations. Two hours lecture, one three-hour lab.

ME 76. Programming and Problem Solving in Engineering. 2 Units
Prerequisite(s): Math 30; Phys 11A; Phys 11A may be taken concurrently
Term Typically Offered: Fall, Spring, Summer

Introduction to the use of computers for engineering, science and mathematical computations. Provides basic computer operation skills, and includes the use of modern interactive symbolic and numerical computation packages as well as an introduction to programming methods for solving engineering problems. Both analytical and graphical tools will be used for applications. Sample applications will be drawn from a variety of science and engineering areas.

ME 105. Introduction to Technical Problem Solving. 3 Units
Prerequisite(s): ENGR 17 and ENGR 30.
Term Typically Offered: Fall, Spring, Summer

Introduction to the use of computers for engineering, science and mathematical computations. Introduction to linear algebra and matrix applications. Introduction to concepts of programming and visualization using MATLAB and PBasic. Practical applications involving design using a microcontroller. Applications will be drawn from a variety of science and engineering areas. Lecture two hours, Laboratory three hours.

ME 106. Applications of Programming in Mechanical Engineering. 1 Unit
Prerequisite(s): ME 76 or equivalent
Term Typically Offered: Fall, Spring, Summer

Application of programming in the solution of practical engineering problems. Topics include problem formulation, algorithm development, advanced graphical user-interface development, and generating simulations using software packages such as Simulink. A project that involves programming a robot to perform designated tasks is included. Laboratory 1 unit.

ME 108. Professional Topics for Mechanical Engineers. 2 Units
Prerequisite(s): MATH 31. MATH 31 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to statistical methods applied to analysis of engineering systems. Topics include data collection, distribution characteristics, probability, uses of regression analysis, and decision-making under uncertainty. Introduction to economic analysis applied to engineering designs. Topics include marginal or incremental economic analysis using multiple standard methods while addressing organizational constraints and market factors. Investigations into the roles engineers play in society in working toward sustainability, and ethical decision making in a technological world.

ME 114. Vibrations. 3 Units
Prerequisite(s): ENGR 110, ME 105.
Term Typically Offered: Fall, Spring

Generation of equations of motion for single and multiple degree freedom systems. Study of natural frequencies, eigenvectors, free and forced response, modes of vibration and vibration control and isolation. Mechanical and structural vibrations with applications to rotating machinery and vehicles. Fundamentals of acoustics and the engineering of musical instruments.

ME 115. Dynamics of Machinery and Multi-Body Systems. 3 Units
Prerequisite(s): ENGR 110, ME 105.
Term Typically Offered: Fall, Spring

Kinematic and kinetic analysis of mechanisms. Rigid and flexible multi-body assembly models in two and three dimensions. Use of solid modeling, dynamic analysis and finite element methods. Study of loads on linkages, cams, gears as integral functioning components of machines, ground and space vehicles. Study of forces and moments in machinery under impulsive and impact forces, balancing, and elements of vibration.

ME 116. Machinery Design I. 2 Units
Prerequisite(s): ENGR 112, and ME 37. ENGR 112 and ME 37 may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Introduction to basic design methodology for mechanical systems and devices. Detail design of machine components; application of analytical methods in the design of complex machines. Failure mode analysis, theories of failure, yield, fracture, deflection, and fatigue analysis of machine elements. Design of common machine elements such as bearings and shafts.

ME 117. Machinery Design II. 2 Units
Prerequisite(s): ME 116.
Term Typically Offered: Fall, Spring

Introduction to design of machine components; application of analytical methods in the design of complex machines. Design of common machine elements such as threaded fasteners, springs, flexible drive components, gears, and friction devices. Introduction to stress and deflection analysis using finite element software.

ME 120. Fluid Mechanics for Mechanical Engineers. 3 Units
Prerequisite(s): ENGR110 or concurrent enrollment.
Term Typically Offered: Fall, Spring, Summer

Fundamentals of fluid mechanics, including fluid statics; mass, momentum and energy conservation laws and analysis; inviscid and viscous (laminar, turbulent) flow; pumps, turbines, internal flow in pipes; external flow on moving or submerged objects; dimensional analysis, modeling, applications. Lecture. 3 units.

ME 121. Solar Thermal and Energy Storage Systems. 2 Units
Prerequisite(s): ENGR 124.
Term Typically Offered: Fall, Spring

Study of solar thermal heat and power and energy storage including the characterization, theory, operation, analysis and modeling of solar thermal and energy storage systems.

ME 122. Geothermal and Bioenergy Systems. 2 Units
Prerequisite(s): ENGR 124
Term Typically Offered: Fall, Spring

Study of geothermal and bioenergy systems including the characterization, theory, operation, analysis and modeling.

ME 123. Wind, Hydro and Ocean Energy. 3 Units
Prerequisite(s): ENGR 124 and ME120.
Term Typically Offered: Fall, Spring

Exploring sustainable energy and power generation, through study of wind, hydro and ocean energy systems, including the characterization, theory, operation, analysis, modeling, planning impacts and design process.

ME 126. Heat Transfer. 3 Units
Prerequisite(s): ENGR 124 and ME 120.
Term Typically Offered: Fall, Spring, Summer

Basic principles of heat transfer, including processes of conduction, convection, radiation, evaporation and condensation. Lecture three hours.

ME 126W. Heat Transfer Workshop. 1 Unit
Corequisite(s): ME 126.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of heat transfer to enhance students' understanding of subject matter.
Note: May be repeated for credit.

Credit/No Credit

ME 128. Thermal-Fluid Systems. 3 Units
Prerequisite(s): ME 126 (may be taken concurrently).
Term Typically Offered: Fall, Spring, Summer

Fundamentals of the Otto, Diesel, Brayton and Rankine power cycles, vapor-compression refrigeration, psychrometric processes and chemical reactions. Theory and application of temperature, pressure, flow, and velocity instruments, introduction to experiment design, errors, uncertainty and data acquisition, data analysis and presentation.

ME 129. Power Plant Engineering. 3 Units
Prerequisite(s): Thermodynamics (ENGR 124) and Thermal-Fluid Systems (ME 128). ME 128 may be taken concurrently
Term Typically Offered: Fall, Spring

In this course, the students will be able to understand the fundamentals of power industry, including electricity production, transmission, and distribution. They will also apply their engineering knowledge gained in the fundamental courses to understand and conceptually design various modern power plant technologies for electric power generation and cogeneration, including steam power plants, gas turbines, combined cycles, and nuclear power plants and their components.

ME 132. Solar Energy, Geothermal Energy, and Bioenergy Systems. 3 Units
Prerequisite(s): Thermodynamics (ENGR 124)
Term Typically Offered: Fall, Spring

In this course, the students will study solar energy, geothermal energy, and bioenergy systems. They will apply their engineering knowledge gained in the fundamental courses to design these systems. They will also learn about theoretical foundations, characterization, operation, and environmental impacts of these energy systems.

ME 136. Numerical Control Programming. 3 Units
Prerequisite(s): ME 37 and ME 105; ME 105 may be taken concurrently.
Term Typically Offered: Fall, Spring

Computer programming languages for automated manufacturing, including CNC manual programming, cutter compensation, geometric definition of products, cutting tool definition, continuous path part programming, computation, decision, looping, computer graphics programming and intelligent machines.

ME 137. Product Design for Manufacturing and Automation. 3 Units
Prerequisite(s): ME 117.
Term Typically Offered: Fall, Spring

Various manufacturing and automation aspects of product design, including design for machining, design for automation, applications of CAD/CAM software in product design and automation, and rapid prototyping. Virtual design and manufacturing and agile manufacturing will also be discussed.

ME 138. Concurrent Product and Process Design. 3 Units
Prerequisite(s): ME 37 and ME 116.
Term Typically Offered: Fall, Spring

Manufacturing considerations in product design including: design for manufacturing (DFM), design for assembly (DF A), design to cost (DTC), design to life cycle cost (DTLCC), design for quality and reliability (DFQR); introduction to concurrent engineering. Two hours lecture, three-hour lab.

ME 140. Introduction to Motors and Actuators. 2 Units
Prerequisite(s): ME 172 or EEE 184.
Term Typically Offered: Fall, Spring

Power conversion hardware used in electromechanical systems. Operation and sizing of electric motors, both DC and AC systems, motor controllers, and power electronics; sensors; design in fluid power systems, both pneumatic and hydraulic; and power transmission systems such as ball screws and belt drivers.

ME 141. Introduction to Tolerance Analysis. 2 Units
Prerequisite(s): ME 116
Term Typically Offered: Fall, Spring

Introduction to techniques used in manufacturing tolerance analysis. Assembly tolerance analysis using standard industry practices; application of geometric dimensioning techniques to tolerance analysis; drawing practices for indicating dimensional tolerances; statistical techniques; tolerance allocation. Introduction to computer aided tolerance analysis.

ME 143. Vehicle Dynamics and Design. 3 Units
Prerequisite(s): ENGR 110 and ME 117.
Term Typically Offered: Fall, Spring

Principles and practice in vehicle dynamics and design using computer aided techniques. Design methods for passenger vehicles, SUVs, trucks, motorcycles and space vehicles. Study of tires, drivetrain and gear boxes in ground vehicles. Kinematics and kinetics of mechanisms in two and three dimensions with applications to suspensions, steering mechanisms. Frame design using finite element analysis, power trains, braking, auxiliary systems. Computer dynamic models for analysis of vehicle stability, collisions rollovers, and failure analysis using state-of-the-art software.

ME 145. Vehicle Crash Reconstruction. 3 Units
Prerequisite(s): ENGR 110
Term Typically Offered: Fall, Spring

Study of forensic engineering using state of the art technology. Application of principles of dynamics for forensic investigation and reconstruction of vehicle collisions. Cases involving, cars, motorcycles, bicycles and commercial vehicles. Study of devices that contribute to passenger safety and stability. Analysis of seat belts, airbags, and electrohydraulic stabilizers. Data analysis of Event Data Recorders (EDRs) and verification with real cases using state of the art reconstruction techniques, photogrammetry and the use of computer simulations in two and three dimensions.

ME 151. Fundamentals of Combustion. 3 Units
Term Typically Offered: Fall, Spring

Principles of combustion and pyrolysis of gaseous, liquid, and solid materials. Applications of principles, including analysis and design of stationary and mobile powerplants, waste management, and fire safety.

ME 152. Turbomachinery Design. 3 Units
Prerequisite(s): ME 105.
Term Typically Offered: Fall, Spring

Theoretical analysis of energy transfer between fluid and rotor; principles of axial, mixed, and radial flow compressors and turbines. Applications and computer-aided design of various types of turbomachines.

ME 153. Thermodynamics of Combustion Engines. 3 Units
Prerequisite(s): ENGR 124, ENGR 132, ME 105.
Term Typically Offered: Fall, Spring

Application of thermodynamic and fluid mechanical analysis to various kinds of engines, including those based on Otto, Diesel, Brayton, Rankine, and Stirling cycles. Development of computer models and comparison of cycles in terms of applications to land, marine, and aerospace propulsion.

ME 154. Alternative Energy Systems. 3 Units
Prerequisite(s): ENGR 124.
Term Typically Offered: Fall, Spring

Study of alternative energy technologies, such as renewable fuels, wind, solar, oceanic and geothermal power. Concentration on fundamental thermodynamic principles, modern design features and non-technical aspects of each technology.

ME 155. Gas Dynamics. 3 Units
Prerequisite(s): ME 105.
Term Typically Offered: Fall, Spring

Thermodynamics and mechanics of one-dimensional compressible flow; isentropic flow; normal and oblique shock waves; Prandtl-Meyer flow. Combined effects in one-dimensional compressible flow. Nozzles, diffusers and shock tubes. Computer use in gas dynamics.

ME 156. Heating and Air Conditioning Systems. 3 Units
Prerequisite(s): ENGR 124, ENGR 132.
Term Typically Offered: Fall, Spring

Theory and design of heating, ventilating and air conditioning for industrial and comfort applications. Topics include refrigeration cycles, heating and cooling load calculations, psychrometrics, solar heating and cooling component, and system design.

ME 157. Solar Energy Engineering. 3 Units
Prerequisite(s): ME 126; may be taken concurrently.
Term Typically Offered: Fall, Spring

In-depth study of the basics of solar engineering, including the nature and availability of solar radiation; operation, theory and performance of solar collectors; energy storage and model of solar systems.

ME 159. High Efficiency HVAC. 3 Units
Prerequisite(s): ME 156 or instructor permission.
Term Typically Offered: Fall, Spring

Starts with a review of the theory and design of HVAC systems. Recent improvements and new developments in cooling and heating equipment are studied in detail. Computer models such as the Trane TRACE Program are used to size an HVAC system with an emphasis on high efficiency. Computer based controls and energy management systems are discussed and demonstrated. Field trips to energy efficient installations are included.
Field trip(s) may be required.

ME 164. Introduction to Test Automation. 3 Units
Prerequisite(s): ME 105, ME 117.
Term Typically Offered: Fall, Spring

Basic concepts to automate testing procedures. Introduction to sensors, signal conditioning, sampling theory, design of experiments, data acquisition software, and data reduction techniques. Hands-on experience with PC based data acquisition software and hardware which will be used to create testing programs. Lecture two hours; laboratory three hours.

ME 165. Introduction To Robotics. 3 Units
Prerequisite(s): ME 105, ME 116
Term Typically Offered: Fall, Spring

Fundamentals of design and application of industrial robotics. Manipulator kinematics, trajectory planning and controller design, design of end effectors and actuators, sensors, programming languages, and machine vision. Applications in manufacturing, approach to implementing robotics, economic analysis for robotics. Lecture two hours; laboratory three hours.

ME 171. Modeling and Simulation of Mechatronics and Control Systems. 3 Units
Prerequisite(s): ENGR 110, ME 105.
Term Typically Offered: Fall, Spring, Summer

Computer modeling and mathematical representation of mechanical, electrical, hydraulic, thermal, and electronic systems or combinations of these. Development of system design criteria and solutions using computer simulation. Use of state of the art automated modeling and simulation methods to build models of multi-energy mechatronics and control systems. Vibration concepts, applied, natural frequencies, eigenvectors, and solution of differential equations using computer simulation. Introduction to state variable feedback control systems. A design project is required.

ME 172. Control System Design. 3 Units
Prerequisite(s): ME 171.
Term Typically Offered: Fall, Spring, Summer

Use of mathematical models for the generation of equations of motion for mechanical and electrical systems. Evaluation of single and multiple degrees of freedom systems in the time and frequency domain. Topics include feedback control systems, Laplace transform, state space representation, transfer functions, error analysis, stability of control systems and system response. Automatic control system design using root locus and frequency response methods. Design of compensating controls using state of the art software and automation tools. Introduction to digital control.

ME 173. Applications of Finite Element Analysis. 3 Units
Prerequisite(s): ENGR 112, ME 105.
Term Typically Offered: Fall, Spring

Mathematical fundamentals of Finite Element Modeling (FEA). Engineering analysis and design of structural members, and machinery components using FEA models. Model generation using computer graphics. Computer solutions of static, dynamic, heat transfer, stress analysis, fluid mechanics and structural problems.

ME 176. Product Design & CAD. 3 Units
Prerequisite(s): ENGR 6, ME 105 and ME 116.
Term Typically Offered: Fall, Spring

Digital product development using an integrated CAD system. Philosophy of parametric design. Component and assembly design, basic drawing creation, and simulations. Team product design investigating the effects of variations in geometry, dimensions, and material selection. Lecture two hours; laboratory three hours.

ME 177. Product Design and 3D Parametric Solid Modeling. 3 Units
Prerequisite(s): ENGR 6, ME 105 and ME 116.
Term Typically Offered: Fall, Spring

Introduction to Solid Modeling and its application to mechanical product design. Digital product development using 3D Parametric Solid Modeling tools. Also covers component and assembly design, basic drawing creation. Reverse design project engineering investigating the effects of variations in geometry, dimensions, and material selection. Lecture two hours; laboratory three hours.

ME 180. Mechanical Properties of Materials. 3 Units
Prerequisite(s): ENGR 112
Term Typically Offered: Fall, Spring, Summer

Principles of mechanical properties of metals, including strength under combined loads, fatigue, and fracture mechanics. Laboratory includes study of strengthening mechanisms, and principles of experimental stress analysis. Lecture two hours; Laboratory three hours.

ME 180W. Mechanical Properties of Materials Workshop. 1 Unit
Corequisite(s): ME 180.
Term Typically Offered: Fall, Spring, Summer

Problem solving and discussion of mechanical properties of materials to enhance students' understanding of subject matter.
Credit/No Credit

ME 182. Introduction to Composite Materials. 3 Units
Prerequisite(s): ME 180.
Term Typically Offered: Fall, Spring

Properties, mechanics, and applications of anisotropic fiber-reinforced materials with an emphasis on the considerations and methods used in the design of composite structures.

ME 184. Corrosion and Wear. 3 Units
Prerequisite(s): ME 180.
Term Typically Offered: Fall, Spring

Introduction to the phenomena of corrosion and wear, including the electro-mechanical bases of corrosion, examples of corrosion of iron, steel and stainless steels, and prevention of corrosion. Fundamentals of wear are covered including effects of loads, material properties, and lubrication on wear rates.

ME 186. Fracture Mechanics in Engineering Design. 3 Units
Prerequisite(s): ME 180.
Term Typically Offered: Fall, Spring

Fracture mechanics approach to mechanical design; role of microstructure in fracture toughness and embrittlement; environmentally-induced cracking under monotonic and fatigue loads; laboratory techniques; service failures in various industries and failure mechanisms.

ME 190. Project Engineering I. 3 Units
Prerequisite(s): ME 117
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring, Summer

Beginning of a two semester project; design of a product, device, or apparatus that will be fabricated in ME 191. Students work in small groups, interacting with product users, vendors, technicians, and faculty advisors. Lecture two hours; laboratory three hours.

ME 191. Project Engineering II. 2 Units
Prerequisite(s): ME 190.
Term Typically Offered: Fall, Spring, Summer

Continuation of the project begun in ME 190. Part II consists of fabrication and assembly of equipment, testing and evaluation, and reporting. Seminar one hour; laboratory three hours.

ME 194. Career Development in Mechanical Engineering. 1 Unit
Prerequisite(s): Senior status.
Term Typically Offered: Fall, Spring

Designed for Mechanical Engineering students making career decisions. Instruction will include effective career planning strategies and techniques including skill assessment, employment search strategy, goal setting, time management, interview techniques and resume writing. Lecture one hour.
Note: Units earned can not be used to satisfy major requirements.

Credit/No Credit

ME 195. Professional Practice. 1 - 6 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Credit/No Credit

ME 195A. Professional Practice. 1 - 12 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised employment in a professional engineering or computer science environment. Placement arranged through the College of Engineering and Computer Science. Requires satisfactory completion of the work assignment and a written report.
Credit/No Credit

ME 196A. Motion and Dynamic Analysis using Solid Modeling. 3 Units
Prerequisite(s): ENGR 6 and ME 117.
Term Typically Offered: Fall, Spring

Practical approach to study of motion and dynamic analysis of machine components and assemblies in two or three dimensions. Uses solid modeling software to analyze the forces, moments and dynamic loads for parts and entire assemblies in motion. Topics include stress and strain during motion, kinematics, kinetics, drop tests in two and three dimensions, frequency analysis, buckling, dynamic fatigue and finite element analysis, time history of motion, harmonics, and vibrations.

ME 196B. Engineering Systems Approach to Product Design. 2 Units
Prerequisite(s): ME 116
Term Typically Offered: Fall, Spring

Study of product design process and formal design methodologies. Various topics in product and system design including creativity, visualizations and communications, human factors, design for X methodology decision science, economics, product design and robust quality design.

ME 196C. Computer Programming for Mechanical Engineering Applications. 2 Units
Prerequisite(s): ME 105
Term Typically Offered: Fall, Spring

Computer programming languages such as C/C++, Java, Processing, and their applications to engineering problem solving using computer graphics, simulations, and physical prototyping. Programming computer communications with microprocessors for controlling sensors and motors.

ME 196D. Ground Vehicle Aerodynamics. 3 Units
Prerequisite(s): ENGR 132
Term Typically Offered: Fall, Spring

Fundamental and applied subjects of aerodynamics for ground vehicle design and performance including flow features, aerodynamic forces, drag reduction strategies, and different methodologies for evaluation of aerodynamic forces and vehicle design. Numerical modeling approaches with experience of running a commercial computational fluid dynamics program. Units: 3 Units (2 Unit Lecture and 1 Unit Lab)

ME 196E. Vehicle Safety and Crash Reconstruction. 3 Units
Term Typically Offered: Fall, Spring

Study of forensic engineering using state of the art technology in vehicles that contribute to passenger safety and stability. Application of principles of dynamics for forensic investigation and reconstruction of vehicle collisions. Study of seat belts, airbags, and electrohydraulic stabilizers. Study of the Event Data Recorders (EDRs), data analysis and verification with real cases using classical reconstruction techniques, and the use of computer simulations in two and three dimensions.

ME 196F. Materials Selection in Engineering Design. 3 Units
Prerequisite(s): ENGR 45 and ME 116. ME 116 may be taken concurrently.
Term Typically Offered: Fall, Spring

Quantitative treatment of materials selection for engineering applications. Discussion of the relationship between design parameters and materials properties. Emphasis on the influence of processing and fabrication on the properties of metals, ceramics, polymers and composites as related to the overall design process. Sustainability, Eco-Design, and manufacturability considerations.

ME 196H. Air Resources Engineering. 2 Units
Prerequisite(s): ENGR 124 and ENGR 132. ENGR 132 may be taken concurrently.
Air quality standards. Stationary and transportation emission sources. Chemical and physical interactions of air pollutants, including greenhouse gases, with the atmosphere. Introduction to air quality modeling, including atmospheric temperature effects due to longwave thermal radiation. Air Quality measurement. Emission control strategies and design. Air resources economics and policy.

ME 196M. Engineering Research Methodology and Communication for Undergraduate Students. 3 Units
Prerequisite(s): ME 108
Term Typically Offered: Fall, Spring, Summer

This course will prepare students for engineering research by introducing them to how to identify, plan, conduct, and present a research project as well as research methods, literature review process, research ethics, writing proposal, writing technical reports, and oral and poster research presentations. The students will be conducting an independent supervised engineering research on an agreed-upon research project. They will refine their communication skills by working one-on-one with the instructor to present their research in a professional setting.

ME 196Q. Ceramic Materials. 3 Units
Prerequisite(s): ENGR 112
Term Typically Offered: Fall, Spring

Fundamentals of structure, processing and properties of engineering ceramics with an emphasis on the relationships between them. Industrial applications for ceramic and glass components along with the processing and materials selection options available for a given material and application. Topics covered include common ceramic structures, thermal and physical properties of ceramics, powder processing, creep resistance and toughening mechanisms, electronic properties of ceramics, and glass forming.

ME 196R. Fundamentals of Physical Metallurgy and Materials. 3 Units
Prerequisite(s): ENGR 112 or equivalent course.
Term Typically Offered: Fall, Spring

Fundamentals of structure, processing and properties of metals and metal alloys with emphasis on relationships between them. Thermodynamics and kinetics of common phase transformations and resulting microstructures and mechanical properties. Slip mechanisms in single crystals, and metallic alloy strengthening mechanisms including grain size, solute, precipitation, cold-work, and martensite. Specific heat treatment and mechanical processing procedures for steel and aluminum alloys as well as application of these processes to other alloy systems.

ME 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work. Admission requires approval of an instructor and the student's advisor. May be repeated for credit.

Credit/No Credit

ME 206. Stochastic Modeling for Engineers. 3 Units
Prerequisite(s): MATH 45 or equivalent.
Term Typically Offered: Fall, Spring

Fundamentals and applications of stochastic processes for engineers, including a review of engineering statistics, autoregression moving average (ARMA) models, characteristics of ARMA models, ARMA modeling and forecasting, and transformation from discrete models to continuous models. Applications of stochastic processes in engineering field, e.g., precision manufacturing, monitoring and diagnosis of machines, tools, and processes, system identification, vibrations, and statistical process control (SPC).

ME 209. Research Methodology. 2 Units
Prerequisite(s): Graduate status in Mechanical Engineering.
Term Typically Offered: Fall, Spring

Research methodology and engineering approach to problem solving. Includes an orientation to the requirements for Master's thesis in Mechanical Engineering. Students will be exposed to a variety of possible thesis topics. Students will be required to complete an essay concerning aspects of engineering research. The student will be required to prepare a presentation and also review other students work.
Note: Graduate Writing Intensive (GWI) course.

ME 233. Intelligent Product Design and Manufacturing. 3 Units
Prerequisite(s): ME 105, ME 138.
Term Typically Offered: Fall, Spring

Application of expert systems, fuzzy logic and neural networks in product design and manufacturing. Concurrent product and process design using expert systems and fuzzy logic. Monitoring tool conditions and manufacturing processes using neural networks so as to achieve high quality, high efficiency, and automation.

ME 236. Computer Controlled Manufacturing Processes. 3 Units
Prerequisite(s): ME 105, ME 138.
Term Typically Offered: Fall, Spring

Applications of logic and motion controls in manufacturing. Computer controlled open and feedback systems. CNC machining processes, CNC programming. Applications of robots in manufacturing, programming for robots. PLC logic controls, sensors and output devices, creating ladder logic diagrams for the PLCs. Design for Manufacturing (DFM) and Design for Assembly (DFA) of modern computer controlled machines.
Note: Lectures as well as some tutorial activities are covered in two 75-minute classes per week.

ME 237. Digital Control of Manufacturing Processes. 3 Units
Prerequisite(s): ME 105, ME 138, MATH 45.
Term Typically Offered: Fall, Spring

Introduction to both the theory and applications of digital control of manufacturing processes, including the discrete controller for manufacturing, digital controlled systems for manufacturing, sensors of control loop for manufacturing, discrete process models for manufacturing, manufacturing system input and response, and stability analysis of manufacturing systems.

ME 238. Automated Inspection. 3 Units
Prerequisite(s): ME 105, ME 138.
Term Typically Offered: Fall, Spring

Introduction to measurement for machine accuracy and process quality including the use of coordinate measuring machines; system considerations and sensor technology in automated visual inspection; applications of pattern recognition in automated inspection.

ME 240. Mechanical Design Analysis. 3 Units
Prerequisite(s): ENGR 201; ENGR 201 may be taken concurrently.
Term Typically Offered: Fall, Spring

Analyzes mechanical designs with respect to strength or deformation criteria. Elastic and inelastic failure criteria, energy methods, effects of temperature, stress concentrations, and fatigue are discussed.

ME 241. Optimum Mechanical Design. 3 Units
Prerequisite(s): ENGR 201; ENGR 201 may be taken concurrently.
Term Typically Offered: Fall, Spring

Mathematical methods of optimum design using linear and non-linear optimization; constrained and unconstrained optimum design. Optimization of mechanical elements and assemblies to meet design requirements, material characteristics and geometry. Numerical methods and computer usage in optimal design. Application of these principles to realistic design problems.

ME 243. Accident Biomechanics Reconstruction. 3 Units
Term Typically Offered: Fall, Spring

Study of the interaction of the human body kinematics and dynamic biomechanics in accidents involving the work place, activities and vehicles. Impact injury mechanisms, response of the human body using computer models and software analysis tools. Biomechanical response to impact, and tolerance levels. Human factors that influence the biomechanical reactions of people with their vehicles and the environment. Photographic and video analysis, computer graphics, and computer simulations. Forensic engineering to determine the dynamic forces that cause injury in different situations.

ME 250. Heat Transfer: Conduction. 3 Units
Prerequisite(s): ME 126, ENGR 202; ENGR 202 may be taken concurrently.
Term Typically Offered: Fall, Spring

Theory and analytical methods in steady-state and transient heat conduction. Development of the differential equations and initial and boundary conditions. Solutions by separation of variables, transforms, finite differences and integral methods. Heat transfer from extended surfaces.

ME 251. Heat Transfer: Convection. 3 Units
Prerequisite(s): ME 126, ENGR 201; ENGR 201 may be taken concurrently.
Term Typically Offered: Fall, Spring

Analyzes convective heat and mass transfer. Development of the Navier-Stokes and energy equations for two-dimensional flows. Boundary layer theory and numerical techniques in solving convection problems. Analyzes turbulence, transport by Reynold's stresses and Prandtl's mixing length theory.

ME 252. Heat Transfer: Radiation. 3 Units
Prerequisite(s): ME 126, ENGR 202.
Term Typically Offered: Fall, Spring

Fundamentals and basic laws of radiative transfer. Properties of surfaces, spectral characteristics and configuration factors. Radiation transfer between surfaces. Absorbing, emitting and scattering media. Combined conduction, convection and radiation. Applications to solar energy systems.

ME 253. Advanced Fluid Mechanics. 3 Units
Prerequisite(s): ENGR 132, graduate status.
Term Typically Offered: Fall, Spring

Analytical and numerical analysis of Navier-Stokes equations for laminar flow; stability of laminar flow and its transition to turbulence. Analyzes stream functions and the velocity potential, and vorticity dynamics. The mathematical analysis of incompressible turbulent flows; development of Reynolds stress equations, turbulent boundary layer equations, turbulent flow in pipes and channels, and turbulent jets and wakes.

ME 255. Advanced Heat Transfer. 3 Units
Term Typically Offered: Fall, Spring

Advanced topics in heat transfer including analytical and numerical solutions to heat conduction equations in both the steady and unsteady state; use of approximate and analytical techniques for the prediction of convective heat transfer in laminar and turbulent flows, heat transfer in high-velocity flows; analysis of the nature of thermal radiation and radiative heat transfer in enclosures.

ME 256. Mechanics and Thermodynamics of Compressible Flow. 3 Units
Prerequisite(s): ENGR 201 or ENGR 202; ENGR 201 or ENGR 202 may be taken concurrently.
Term Typically Offered: Fall, Spring

Application of the laws of fluid mechanics and thermodynamics to problems of compressible flow in two and three dimensions; small perturbation theory, hodograph method and similarity rules for subsonic flow. Method of characteristics, shock wave analysis for steady, unsteady and supersonic, one-dimensional flows.

ME 258. Advanced Thermodynamics. 3 Units
Prerequisite(s): ENGR 202.
Term Typically Offered: Fall, Spring

Advanced topics in thermodynamics including applications of fundamental postulates to chemical, mechanical, magnetic and electric systems, theory of fluctuations, and irreversible thermodynamics.

ME 259. Introduction to Computational Fluid Dynamics. 3 Units
Prerequisite(s): ENGR 132, ME 105 and ME 126.
Term Typically Offered: Fall, Spring

Fundamentals of computational fluid dynamics, modeling of physical processes, including the fluid flow, heat and mass transfer, and computer skills. Basic concepts of numerical analysis using computer, including the solutions of ordinary and partial differential equations. Basic hands-on experience on using commercial computational fluid dynamics software packages.

ME 270. Advanced Computer-Aided Design of Dynamic Systems. 3 Units
Prerequisite(s): ME 114 or ME 171.
Term Typically Offered: Fall, Spring

Computer analysis, synthesis and modeling of physical systems including single and multiple degree of freedom, and linear/nonlinear systems. Use of Computer-Aided Modeling software (CAMP-G) and Advanced Digital Simulation Languages (ADSL). Design and analysis of multi-energy systems using Block Diagrams, Bond Graphs, and state space equation representation. Design of electromagnetic, electro-hydraulic servomechanisms, actuators and driven systems; introduction to multi-variable control of complex systems; stability, controllability, and observability.

ME 272. Finite Element Modeling in Computer-Aided Design. 3 Units
Prerequisite(s): ME 105, ME 173.
Term Typically Offered: Fall, Spring

Finite-element methods in the analysis and optimal design of machine components, structures, and distributed systems. Generation of FEA models using computers. Theoretical and practical application of a finite element code such as PATRAN to the solution of engineering problems. Topics include static and vibration analysis, stress analysis buckling, normal modes, direct and modal frequency response, transient analysis, and heat transfer.

ME 273. Multibody Dynamics of Rigid and Flexible Systems. 3 Units
Prerequisite(s): Graduate standing.
Term Typically Offered: Fall, Spring

Analysis and design of rigid and flexible multi-body assemblies in two and three dimensions with applications to mechanisms, machinery, ground and space vehicles. Kinematic and kinetic analysis in two and three dimensions; impulsive and impact forces; modes of vibration. Use of solid modeling, dynamic analysis and finite element analysis methods.

ME 274. Introduction to Flight Dynamics. 3 Units
Prerequisite(s): MATH 45, ENGR 110.
Term Typically Offered: Fall, Spring

Review of Laplace Transforms, matrix algebra, and aerodynamics. Derivation of aircraft rigid body equations of motion. Linearization of the equation of motion about reference flight (trim) condition, and separation into longitudinal and lateral equations of motion. Determination of aerodynamic stability derivatives and control effectiveness. Trim analysis, static and dynamic stability and control. Aircraft handling qualities and stability augmentation. Simulation of aircraft response to control and atmospheric inputs.

ME 275. Analysis of Aircraft Structures. 3 Units
Prerequisite(s): Graduate standing.
Term Typically Offered: Fall, Spring

Review of structural analysis: elasticity, virtual work and energy methods, torsion of solid sections, bending of plates, columns. Analysis of aircraft structures: materials, structural components of aircraft, airworthiness, airframe loads, fatigue, structural idealization, fuselages, wings.

ME 276. Advanced Vibration Theory. 3 Units
Prerequisite(s): ME 114, ME 171, or CE 166.
Term Typically Offered: Fall, Spring

Advanced study of mechanical and structural vibrations. Discrete and distributed parameter systems with linear and nonlinear characteristics. Variational principle, Lagrange's equation and finite element method. Matrix equation and eigenvalue problems. Modal analysis and modal testing. Stability and control. Theory developed through physical problems.

ME 278. Space Systems Engineering Management. 3 Units
Prerequisite(s): ENGR 110.
Term Typically Offered: Fall, Spring

Systems Engineering approach to plan and direct engineering projects. Emphasizes systems engineering process, requirement design fundamentals, subsystem fundamentals, trade studies, integration, technical reviews, case studies and ethics. Space exploration used as an example; skills applicable to any engineering project. Project-orientated course to plan the design of space and ground vehicles, satellites, airplanes and multidisciplinary subsystems.

ME 280. Advanced Mechanical Properties of Materials. 3 Units
Prerequisite(s): ME 180
Term Typically Offered: Fall, Spring

Mechanical properties of materials, with special attention to dislocations/defects and deformation and fracture control mechanisms. Mechanical properties of conventional engineering materials as well as advanced materials such as nanostructured materials are considered. Effects of defects on mechanical behavior at ambient and elevated temperature are discussed with attention given to strengthening mechanisms, creep, fatigue and fracture.

ME 285. Materials for Extreme Environments. 3 Units
Prerequisite(s): ME 180 or PHYS 110
Term Typically Offered: Fall, Spring

Comprehensive study of material applications in extreme environments, with special attention to mechanical, thermal and electronic behavior. Extreme temperature, pressure. corrosive or toxic environments and high rate deformation are considered. Currently available materials as well as emerging materials are explored for specific applications such as undersea, outer space, ballistic, nuclear, combustion, and other extreme application arenas.

ME 295. Fieldwork. 1 - 3 Units
Prerequisite(s): Permission of Graduate Coordinator or Department Chair.
Term Typically Offered: Fall, Spring

Supervised employment in industry or government that provides practical work experience. Requires satisfactory completion of the work assignment and a written report.
Note: Units may not be applied toward meeting the 30-unit requirement of the degree.

Credit/No Credit

ME 296L. Creative Engineering Design for Quality Products. 3 Units
Prerequisite(s): ME 138 and ME 180.
Term Typically Offered: Fall, Spring

Introduction to analytical and systematic design methodologies in creative and quality product design. Topics include product design process, creative conceptual design tools such as axiomatic design, theory of inventive problem solving (TRIZ), and engineering decision making. Quality product design including design of experiments, robust design techniques, and design optimization. Assignments include application of these principals to solving open-ended design problems using computing tools. Two hour lecture; Three hour laboratory.

ME 296M. Space Mission Design and Analyses. 3 Units
Term Typically Offered: Fall, Spring

This course examines the methods of systems design and analyses required to design and optimize the space mission over its life cycle. The process of optimization covers all the major elements of a space mission such as the ground systems, launch vehicles, spacecraft/payload, space environment, in-orbit operation and maintenance, and end-of-life disposal. The optimization of the overall mission must balance between performance, cost and reliability of all the major elements.

ME 296O. Advanced Heat Transfer. 3 Units
Prerequisite(s): ME 126 and ENGR 202.
Corequisite(s): ENGR 202.
Term Typically Offered: Fall, Spring

Advanced topics in heat transfer including analytical and numerical solutions to heat conduction equations in both the steady and unsteady state; use of approximate and analytical techniques for the prediction of convective heat transfer in laminar and turbulent flows, heat transfer in high-velocity flows; analysis of the nature of thermal radiation and radiative heat transfer in enclosures.

ME 296P. Advanced Dynamics. 3 Units
Prerequisite(s): Graduate Standing
Term Typically Offered: Fall, Spring

Newtonian mechanics: Newton's laws, impulse and momentum, work and energy. Analytical mechanics: Degrees of freedom, generalized coordinates, constraints. Lagrange multipliers, principles of virtual work, D'Alembert's principle, Hamilton's principle, Lagrange's equation of motion. Rotating reference frames. Rigid body dynamics: kinematics, linear and angular momentum, and kinetic energy of a rigid body, principle axes, equations of motion. Euler angles. Behavior of dynamic systems: motion about equilibrium points, stability, Lyapunov's direct method. Perturbation techniques: secular terms, Lindstedt's method, Duffing's equation.

ME 296Q. Advanced Solid Modeling. 3 Units
Prerequisite(s): Student must pass ME 116.
Term Typically Offered: Fall, Spring

Advanced topics in computer-aided design for mechanical product design. Reviews on fundamental part and assembly modeling, and engineering drawings. Advanced modeling topics such as surface modeling, top-down assembly, macros and API programming, manufacturing oriented design such as sheet metal, plastic and mold design.

ME 296S. Advanced CAD for Aerospace Applications. 3 Units
Term Typically Offered: Fall, Spring

Design of aerospace systems including profile definition, constraints, operations and visualizations, component design, transformation features, and insertions using advanced CAD software such as CATIA. Creation of complete assembly design including creation of product files, identifying, inserting and displacing components, constraining parts, numbering parts and scene creation. Specifics of sheet metal design for aerospace design including creation of flange, cut-out, joggle, holes, stampings and patterns.

ME 296U. Advanced Computer-Aided Product Design. 3 Units
Prerequisite(s): ENGR 6 and ME 116, or graduate-level status
Term Typically Offered: Fall, Spring

Advanced topics in computer-aided design and applications for mechanical product design. Reviews of fundamental parts, assembly modeling, and engineering drawings. Advanced modeling topics such as surface modeling, design for manufacturing, simulation-based design, top-down assembly, macros and API programming.

ME 296V. Advanced Control System Design. 3 Units
Prerequisite(s): ME 172
Design of Multi-Input/Multi-Output controllers using linear quadratic regulator method and advanced controls architectures. Architectures include Proportional, Proportional Integrator and Proportional Integrator Derivative (filter) schemes. The course also includes Digital Control, Optimal Control, Introduction to Guidance, Navigation and Control techniques.

ME 296W. Accident Biomechanics. 3 Units
Prerequisite(s): ENGR 110
Study of the interaction of human body kinematics and dynamic biomechanics in accidents involving human activities and vehicles. Impact injury mechanisms, response of the human body using computer models and software analysis tools. Biomechanical response to impact, and tolerance levels. Human factors that influence the biomechanical reactions of people with their vehicles and the environment. Photographic and video analysis, computer graphics, and computer simulations. Forensic engineering to determine the dynamic forces that cause injury in different situations.

ME 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Any properly qualified student who wishes to pursue a problem of his/her own choice may do so if the proposed subject is acceptable to the faculty member with whom he/she works and to his/her advisor.
Credit/No Credit

ME 500. Master's Thesis. 1 - 6 Units
Prerequisite(s): Open to students who have advanced to candidacy and have secured approval of a Thesis proposal form one full semester prior to registration.
Term Typically Offered: Fall, Spring

Completion of a thesis. Credit given upon successful completion of a Master's Thesis (4 - 6 units; maximum 6 units).
Note: Course may be repeated for no more than 6 units total.

Military Science (MILS)

MILS 14. Introduction to Military Science I. 1 Unit
Term Typically Offered: Fall, Spring

Discussion of the military as one element of national power; its role in American defense; its purpose, weapons and organizations; its participation in international treaties. Discussion of other subjects required for a student to understand the military and its place in modern society. Fall only.

MILS 15. Introduction to Military Science II. 1 Unit
Term Typically Offered: Fall, Spring

Discussion of the military's role in American Society, current society attitudes, sources of its leaders, and an examination of its structure. Spring only.

MILS 24. Principles and Tactics of the Soldier. 1 Unit
Term Typically Offered: Fall, Spring

Familiarizes students with the nine principles of war, and gain an appreciation for the role of the commander in warfare. A study of small unit level will enable the student to understand the nature of the battlefield environment, and will put the decisions of the commander into perspective. These discussions will lead to the discussion of the elements of leadership to be presented in MILS 25. Fall only.

MILS 25. Leadership Assessment and Beginning Counseling Skills. 1 Unit
Term Typically Offered: Fall, Spring

Students will gain insight and practical experience in the manager-leader skills of counseling using the Army's sixteen leadership dimensions as a model. The student will understand the elements of leadership, and undergo the Army's Leadership Assessment Program in class. Interactive role playing scenarios will be conducted and behavior recorded in a group setting. The student will be given individual feedback on the results of the assessment by scheduling a private appointment with the instructor. Spring only.

MILS 99. Special Problems. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Intensive examination of one or more special problems in Military Science. Possible areas of study include examination of the structure of the military and its place in modern society, participation in international treaties, leadership skills, decision making, as well as other topics in military science.

MILS 134. Principles Of Instruction. 2 Units
Term Typically Offered: Fall, Spring

Principles and practice in fundamentals applicable to military instruction to include planning, presentation, execution and evaluation. Student presentations exemplify lecture material. Application of small combat unit tactics (squad and platoon) will solidify concepts discussed in class. Fall only.

MILS 135. Military Operations. 2 Units
Prerequisite(s): Upper division standing, MILS 134 or instructor permission.
Term Typically Offered: Fall, Spring

Military small unit tactical theory and application are taught and serve as a basis for leadership development. Introduces principals of combat contemporary operating environment, Geneva Law of Land Warfare, and military offensive and defensive operations. Emphasis is placed on developing critical thinking, problem solving, and communication skills. Spring only.

MILS 144. Principles of Military Administration. 2 Units
Term Typically Offered: Fall, Spring

Comprehensive course in the organization, structure, and functions of the various types of staffs and an introduction to the theory and application of military law and legal systems focusing on the Uniform Code of Military Justice and the rights of the accused under the Constitution. Fall only.

MILS 145. Military Leadership and Ethics. 2 Units
Term Typically Offered: Fall, Spring

Capstone seminar designed to bring together all previous Military Science instruction. Examines contemporary leadership problems. Designed to provide the ROTC cadet with the basic management skills necessary for a foundation for future growth as a junior officer. Spring only.

MILS 199. Special Problems. 1 - 3 Units
Prerequisite(s): MILS 14, MILS 15, MILS 24, MILS 25 and Department Chair permission.
Term Typically Offered: Fall, Spring

Intensive examination of one or more special problems in military science. Possible areas of study include leadership dimensions, professional ethics, critical thinking, problem solving, communication skills as well as other topics in military science.

Music (MUSC)

MUSC 2. Musicianship II. 2 Units
Prerequisite(s): MUSC 1
Corequisite(s): MUSC 7.
Term Typically Offered: Fall, Spring

Advanced aural skills and practical applications of the rhythmic, melodic, and harmonic materials needed to perform, teach, and compose music. Class activities will focus around the musicianship skills of rhythmic reading and dictation, melodic dictation, contrapuntal dictation, harmonic dictation, aural analysis of form, and sight singing.

MUSC 3. MIDI Sequencing and Notation. 2 Units
Term Typically Offered: Fall, Spring

Introduction to professional music software applications and MIDI hardware. Exploration of various hardware options such as keyboards, computers, synthesizers, samplers, and drum machines. Topics include basic MIDI principles, creating, performing, and printing music using computer-based sequencing and notation software.

MUSC 4. Elements Of Music. 2 Units
Term Typically Offered: Fall only

Elements of Music is designed to introduce you to some of the fundamental materials of music and musicianship with the goal of attaining basic musical literacy. The course focuses on the understanding of some of the ways rhythm and pitch function in music, the interpretation of the most common elements of a musical score, and the association of music notation with sound.

MUSC 7. Advanced Theory. 3 Units
Prerequisite(s): MUSC 1 and MUSC 6.
Corequisite(s): MUSC 2.
Term Typically Offered: Fall, Spring

Advanced tonal theory that includes the study of enriched harmonic resources of the eighteenth and nineteenth centuries as well as an introduction to counterpoint and large musical forms. The aural component includes dictation and vocal reading of chromatic music and aural analysis of form.

MUSC 8. Basic Music. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Orientation designed to provide musical knowledge, skills, and competencies necessary for reading music or listening to music.
Note: May not be taken for credit by music majors.

MUSC 9. Music In World Cultures. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Designed as a survey of world music for music majors. Explores how music is used as a form of human expression in all cultures. Musical instruments, forms and styles, and the roles and functions of music in traditional and contemporary societies in various cultures throughout the world.

MUSC 10A. Survey of Music Literature I. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Survey of Medieval, Renaissance and Baroque music literature in Western art music, its stylistic development, and cultural context. Emphasis on score reading and listening. Introduction to primary source readings and musicological literature.

MUSC 10B. Survey of Music Literature II. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

Survey of Classical and Romantic music literature in Western art music, its stylistic development, and cultural context. Emphasis on score reading and listening. Introduction to primary source readings and musicological literature.

MUSC 10C. Survey of Music Literature III. 3 Units
Term Typically Offered: Fall only

Survey of 20th and 21st Century music literature in Western art music, its stylistic development, and cultural context. Emphasis on score reading and listening. Introduction to primary source readings and musicological literature.

MUSC 11A. Music Theory I. 2 Units
Prerequisite(s): MUSC 4 or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 12A for students enrolled in all music degree programs other than the BA Music degree.
Term Typically Offered: Fall, Spring

Theory I is designed to introduce students to some of the materials and structures of certain styles of tonal and modal music. The course begins with a brief review of fundamentals before moving quickly into the understanding of two important kinds of notational shorthand. The second half of the course is concerned primarily with the study of counterpoint. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 11B. Music Theory II. 2 Units
Prerequisite(s): MUSC 11A or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 12B for students enrolled in all music degree programs other than the BA Music degree.
Term Typically Offered: Fall, Spring

Theory II is designed to deepen students' understanding of some of the materials and structures of certain styles of tonal and modal music. The course is a balance of taking music apart through score analysis and putting music together through model composition, or creating original music that imitates a particular style. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 11C. Music Theory III. 2 Units
Prerequisite(s): MUSC 11B or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 12C for students enrolled in a music degree program other than the BA Music degree
Term Typically Offered: Fall, Spring

Theory III is designed to deepen students' understanding of some of the materials and structures of certain styles of tonal and modal music. The course is a balance of taking music apart through score analysis and putting music together through model composition, or creating original music that imitates a particular style. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 12A. Musicianship I. 2 Units
Prerequisite(s): MUSC 4 or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 11A
Term Typically Offered: Fall, Spring

Musicianship I is a skills-focused course designed to improve the way students associate music notation with sound. By improving their skills in this area, students will be able to read music more quickly and accurately, and understand better the music they are listening to. They will accomplish these tasks through a structured approach to sight-reading, transcription, improvisation, and keyboard playing. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 12B. Musicianship II. 2 Units
Prerequisite(s): MUSC 12A or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 11B.
Term Typically Offered: Fall, Spring

Musicianship II is a skills-focused course designed to improve the way students associate music notation with sound. By improving their skills in this area, students will be able to read music more quickly and accurately, and understand better the music they are listening to. They will accomplish these tasks through a structured approach to sight-reading, transcription, improvisation, and keyboard playing. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 12C. Musicianship III. 2 Units
Prerequisite(s): MUSC 12B or placement by exam at the time of university enrollment.
Corequisite(s): MUSC 11C.
Term Typically Offered: Fall, Spring

Musicianship III is a skills-focused course designed to improve the way students associate music notation with sound. By improving their skills in this area, students will be able to read music more quickly and accurately, and understand better the music they are listening to. They will accomplish these tasks through a structured approach to sight-reading, transcription, improvisation, and keyboard playing. These studies will prepare students to engage two topics critical to the success of a musician: interpretation and expression.

MUSC 14B. Basic Piano for Majors. 1 Unit
Prerequisite(s): Music major or minor and instructor permission.
Term Typically Offered: Fall, Spring

Development of fundamental keyboard skills for the non-keyboard Music major. Sectioned according to the ability of the student. Completion of MUSC 14D meets the departmental piano requirement.

MUSC 14C. Basic Piano for Majors. 1 Unit
Prerequisite(s): Music major or minor and instructor permission.
Term Typically Offered: Fall, Spring

Development of fundamental keyboard skills for the non-keyboard Music major. Sectioned according to the ability of the student. Completion of MUSC 14D meets the departmental piano requirement.

MUSC 14D. Basic Piano for Majors. 1 Unit
Prerequisite(s): Music major or minor and instructor permission.
Term Typically Offered: Fall, Spring

Development of fundamental keyboard skills for the non-keyboard Music major. Sectioned according to the ability of the student. Completion of MUSC 14D meets the departmental piano requirement.

MUSC 15. Jazz Piano Class. 1 Unit
Prerequisite(s): MUSC 14D or instructor permission.
Term Typically Offered: Fall, Spring

Provides basic instruction in keyboard skills and jazz theory. Includes composing, basic chord voicing, realizing chord progressions at sight, and fitting chords to a given melody.

MUSC 17. Voice Class. 1 Unit
Term Typically Offered: Fall, Spring

Elementary instruction in the correct use of the singing voice and the development of style in singing. Open to all students beginning the study of voice. Recommended for elementary credential candidates. May be taken for credit four times.

MUSC 18. Music Appreciation. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Basic music orientation for the layman. A non-technical consideration of the various aspects of music literature designed to stimulate interest in all phases of music.
Note: Not open to music majors.

MUSC 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Students with the opportunity to interact with fellow classmates and the seminar leader to build a community of academic support and personal support.

MUSC 25. Voice For Music Theater. 1 Unit
Prerequisite(s): Instructor permission and proficiency examination.
Term Typically Offered: Fall, Spring

Training in vocal techniques and repertoire of the modern American musical theater. May be taken for credit twice.

MUSC 32A. Piano: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 32B. Piano: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 35A. Harpsichord/Organ: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only.
Note: May be taken for credit four times.

MUSC 35B. Harpsichord/Organ: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only.
Note: May be taken for credit four times.

MUSC 37A. Voice: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 37B. Voice: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 38D. Beginning Hand Drums. 1 Unit
Term Typically Offered: Fall, Spring

Explores the fundamentals of hand-drumming through two methods of study: the music of North India, the tabla drums and the rhythmic system of Hindustani music and rhythms of the Middle East through traditional drums, including the tar, riqq, and dumbek.

MUSC 38S. Beginning Shakuhachi. 1 Unit
Term Typically Offered: Fall, Spring

Elementary class instruction in the fundamentals of playing the traditional Japanese flute known as the shakuhachi. The focus is on fundamental blowing and fingering techniques, as well as the basis of the fu ho u notation system.
Note: Open to Music majors and minors; others by instructor permission.

MUSC 39. Beginning Folk Guitar. 1 Unit
Term Typically Offered: Fall, Spring

Folk guitar for the beginner, with emphasis on chords and strums as well as the playing of melodies. Guitars are to be furnished by the student.

MUSC 40B. Beginning Brass. 1 Unit
Term Typically Offered: Fall, Spring

MUSC 40P. Beginning Percussion. 1 Unit
Term Typically Offered: Fall, Spring

MUSC 40S. Beginning Strings. 1 Unit
Term Typically Offered: Fall, Spring

MUSC 40W. Beginning Woodwinds. 1 Unit
Term Typically Offered: Fall, Spring

MUSC 42. Introductory Composition. 2 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall only

Individual instruction in composition for the beginning composition major. Work will be designed to fit the preparation of the student, with emphasis on principles of sound melodic and harmonic construction. Original compositions will develop a mastery of the smaller forms. May be taken twice for credit.

MUSC 43A. Jazz Improvisation I. 2 Units
Prerequisite(s): MUSC 6
Term Typically Offered: Fall, Spring

Part one of a two-semester study of jazz improvisation required of all jazz studies majors. This course will provide the student with basic and intermediate skills of creative improvisation styles in the jazz idiom. In order to expand the skill level of improvisation of each particular jazz student, this class will focus on four main areas: listening, scale and chord development, repertory development and transcribing jazz solos.

MUSC 43B. Jazz Improvisation II. 2 Units
Prerequisite(s): MUSC 43A
Term Typically Offered: Fall, Spring

Part two of a two-semester study of jazz improvisation required of all jazz studies majors. The course will provide the student with intermediate and advanced skills of creative improvisation styles in the jazz idiom. In order to expand the skill levels of improvisation of each particular jazz student, this class will focus on four main areas: listening, scale and chord development, repertory development, and transcribing jazz solos.

MUSC 50. Jazz Applied: Intermediate. 1 Unit
Prerequisite(s): Approval by jazz area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction in jazz performance.
Note: May be taken for credit four times.

MUSC 55A. Violin: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 55B. Violin: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 56A. Viola: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 56B. Viola: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 57A. Cello: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 57B. Cello: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 58A. Double Bass: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 58B. Double Bass: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 60. Introuduction to String Project Pedagogy. 1 Unit
Term Typically Offered: Fall, Spring

In this course students study pedagogical techniques and participate in a step-by-step practicum as assistant teachers in the Sacramento State String Project. Set in a rigorous teaching lab, the course gives students experience both observing and assistant teaching in the String Project program. Student assistants master effective methods of teaching fundamental string instrument skills to beginners, including correct position, tone production, reading proficiency, intonation, phrasing and listening.

MUSC 65A. Flute: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 65B. Flute: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 66A. Oboe: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 66B. Oboe: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 67A. Bassoon: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 67B. Bassoon: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 68A. Clarinet: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 68B. Clarinet: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 69A. Saxophone: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 69B. Saxophone: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 70A. Percussion: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 70B. Percussion: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 71A. Harp: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 71B. Harp: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 74A. Guitar: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 74B. Guitar: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 90A. Trumpet: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 90B. Trumpet: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 91A. Trombone: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 91B. Trombone: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 92A. Baritone: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 92B. Baritone: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 93A. French Horn: Intermediate. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 93B. French Horn: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 94A. Tuba: Intermediate. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 94B. Tuba: Intermediate - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 96. Intro to Hip-Hop Beat-Making. 1 Unit
Corequisite(s): MUSC 118D
This one-unit course is an optional lab supplement to the Area C1 GE course 118D: Hip-Hop in Urban America. Students will learn skills in hip-hop production software including Reason and Ableton Live. Students will learn to create beats including instrument building, sampling, and sequencing. The lab will offer students the opportunity to engage in a hands-on way with the course material in Music 118D, and will track the regional scope of the course schedule closely.

MUSC 99. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty member under whom the work is to be conducted and the Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading for lower division students. Open only to students who appear competent to carry on individual work. Credit/No Credit

MUSC 100A. Concert Attendance. 1 Unit
Term Typically Offered: Fall, Spring

Designed to develop critical listening, aural analysis, and the appreciation of a wide range of musical forms and genres. Each student will be required to attend a minimum of ten concerts approved by the Music Department and submit a portfolio of programs attended. Written reviews are required for a determined number of the ten concerts attended.

MUSC 100B. Concert Attendance. 1 Unit
Term Typically Offered: Fall, Spring

Designed to develop critical listening, aural analysis, and the appreciation of a wide range of musical forms and genres. Each student will be required to attend a minimum of ten concerts approved by the Music Department and submit a portfolio of programs attended with comments about the music and performance. May be taken for credit eight times.

MUSC 101. Experiences In Music. 3 Units
Term Typically Offered: Fall, Spring

Development of essential musical skills and knowledge for teaching music in the elementary classroom including competencies necessary for reading and notating music in the elementary classroom. The study of curriculum and literature through songs, rhythmic movement, instrumental activities, creating and improvisation, and listening. Lecture/lab.
Note: Required for the Liberal Studies major.

MUSC 102. Scoring and Arranging. 3 Units
Prerequisite(s): MUSC 7.
Term Typically Offered: Spring only

Scoring and arranging techniques related to the needs of orchestra, concert band, marching band, vocal and instrumental ensembles.

MUSC 103. Counterpoint. 3 Units
Prerequisite(s): MUSC 7.
Term Typically Offered: Fall only

Study of the contrapuntal style and devices of the 18th century. Includes writing in two and three parts in such forms as the canon, invention, chorale prelude, and fugue.

MUSC 104. Contemporary Music Theory and Musicianship. 3 Units
Prerequisite(s): MUSC 11C and MUSC 12C, or placement by exam at the time of university enrollment.
Term Typically Offered: Spring only

In this course, students will engage the art music of today from both a theoretical standpoint; that is, an understanding of musical materials and structures through analysis; and a creative standpoint; that is, creating your their music based upon the models they study through composition and improvisation.

MUSC 105. 20th Century Theory. 3 Units
Prerequisite(s): MUSC 7.
Term Typically Offered: Spring only

Course deals with the harmonic, melodic, and rhythmic aspects of music from Debussy to present, with emphasis on the evolutionary nature of its development.

MUSC 106. Form and Analysis. 3 Units
Prerequisite(s): MUSC 7.
Term Typically Offered: Fall only

Consideration of the development of musical forms from the phrase through the multi-movement sonata and symphony. Emphasis is placed on the music of major 18th, 19th, and 20th century composers.

MUSC 107. Composition. 2 Units
Prerequisite(s): Undergraduate major in music, MUSC 42, or instructor permission.
Term Typically Offered: Fall, Spring

Individualized practical experience in the composition of music. Students are allowed freedom in the development of a personal music style and the exploration of forms and genres. May be taken for credit four times.

MUSC 108A. Jazz Arranging I. 2 Units
Prerequisite(s): MUSC 3 or instructor permission.
Term Typically Offered: Fall, Spring

Part I of a two-semester study of arranging. Provides basic and intermediate tools of creative writing and arranging styles in the jazz idiom as applied to the small jazz ensemble (jazz combo).

MUSC 108B. Jazz Arranging II. 2 Units
Prerequisite(s): MUSC 108A or instructor permission.
Term Typically Offered: Fall, Spring

Part 2 of a two-semester study of arranging. Addresses creative writing in the idiom of the large jazz ensemble (big band). Two major projects are required, performed and recorded. Jazz orchestration is the central focus with special attention to the idiomatic demands from the sections of the big band and how they relate to each other.

MUSC 109. Instrumentation and Arranging. 3 Units
Prerequisite(s): MUSC 11C and MUSC 12C, or placement by exam at the time of university enrollment.
Term Typically Offered: Fall only

This class is designed to introduce students to two topics: instrumentation, or the properties of various instruments and voices, and how to write for them; and orchestration, or how to combine instruments effectively. The approach will be hands-on in nature: students will be called upon to demonstrate their instrument and perform in class, and they will often orchestrate music for their classmates to perform in class.

MUSC 110. Research in Music History. 3 Units
Prerequisite(s): MUSC 7, MUSC 10, Music majors or minors only, and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Capstone research in special topics of music history. Emphasis on critical reading, writing, and speaking. This course satisfies the writing intensive requirement for music majors.

MUSC 110B. History Of Music. 3 Units
Prerequisite(s): MUSC 10A and MUSC 10B or equivalent.
Term Typically Offered: Fall, Spring

Chronological study of music's development from ancient Greeks through contemporary composers. Recordings and printed music are used to illustrate the development of musical forms and content through the various periods.
Note: A working knowledge of musical notation is required.

MUSC 118B. American Popular Music: Jazz History. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

A survey of jazz history. Emphasis is placed on the evolution of different jazz styles and trends, through the study of recorded examples and videos by some of the major artists of the 20th century. Discussion of the social conditions surrounding the evolution of jazz will be included.

MUSC 118C. History of Rock Music. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

A survey of rock music history. Emphasis is placed on the diverse influences and subsequent development of classic rock musical styles through the study of recorded examples and videos by major artists of the 20th century. Discussion of the social conditions surrounding the evolution of rock music will be included.

MUSC 118D. Hip-Hop in Urban America. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

A survey course of hip-hop history. Emphasis is on the musical and cultural evolution of hip-hop through the study of recorded examples, videos, and articles focused on five urban hip-hop centers: New York, Los Angeles, Chicago, and New Orleans.

MUSC 119A. World Music: Asia. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examines music from cultures in Asia. Music is examined as a cultural process, a cultural object and as sound. Musical instruments, forms and styles are discussed along with the roles and functions of music. Although traditional music will be emphasized, contemporary and popular music will also be discussed.

MUSC 119B. World Music: Africa. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examines music from cultures in Africa. Music is examined as a cultural process, a cultural object and as sound. Musical instruments, forms and styles are discussed along with the roles and functions of music. Although traditional music will be emphasized, contemporary and popular music will also be discussed.

MUSC 119C. World Music: Latin America. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examines music from cultures in Latin America. Music is examined as a cultural process, a cultural object and as sound. Musical instruments, forms and styles are discussed along with the roles and functions of music. Although traditional music will be emphasized, contemporary and popular music will also be discussed.

MUSC 125. Advanced Voice for Music Theater. 1 Unit
Prerequisite(s): MUSC 25 or instructor permission and proficiency examination.
Term Typically Offered: Fall, Spring

Designed to give singers advanced training in vocal techniques, interpretation, stage presence, audition preparation, through the utilization of modern musical theater repertoire commensurate with the individual abilities of each class participant.
Note: May be taken twice for credit.

MUSC 127. The American Musical Theater. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Study of Broadway musicals. Examination of the music, lyrics, dramatic structure, and use of dance in selected shows which demonstrate the evolution of the American musical from its inception through contemporary forms. Includes reading, discussion, listening assignments, and attendance at live performances.

MUSC 129. American Society and Its Music. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Arts (Area C1)
Term Typically Offered: Fall, Spring

Introduction, through reading, discussion, taped assignments in the Music Department listening center, live music in the classroom, and outside live listening assignments, to all significant manifestations of American music, their roots, and their place in American life. Includes folk, religious, popular, jazz, and fine-art music.

MUSC 130. Pedagogy of Music Theory and Musicianship. 3 Units
Prerequisite(s): MUSC 11C and MUSC 12C, or placement by exam at the time of university enrollment.
Term Typically Offered: Fall only

This course will serve as a laboratory in which you will learn about and try out effective written theory and aural skills pedagogical practices. You will read research by leading music theorists and cognitive scientists, survey textbooks, develop lesson plans and courses, practice-teach your classmates, and tutor Sacramento State students.

MUSC 132A. Piano: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 132B. Piano: Advanced - BM. 1 Unit
Prerequisite(s): Admission to the BM degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 135A. Harpsichord/Organ: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only.
Note: May be taken for credit four times.

MUSC 135B. Harpsichord/Organ: Advanced- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only.
Note: May be taken for credit four times.

MUSC 136A. Diction For Singers. 3 Units
Term Typically Offered: Fall, Spring

International Phonetic Alphabet and its application to song literature in Latin, Italian, German, French, and English. Designed for advanced voice majors, others admitted by instructor permission.

MUSC 136B. Vocal Pedagogy. 2 Units
Term Typically Offered: Fall, Spring

Study of the methods, problems and practical application of teaching singing. Topics will include the functional unity of the signing voice, pedagogical principles, and current methods/resources in voice training, teaching the beginning singer. Designed for voice majors; other admitted by instructor permission.

MUSC 137A. Voice: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 137B. Voice: Advanced - BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 140. Jazz Theory and Harmony. 2 Units
Prerequisite(s): MUSC 7 and instructor permission.
Term Typically Offered: Spring only

Introduction to the theoretical language of jazz improvisation: rhythms, articulations, style, harmony and melody, forms, simple analysis, chord/scale relationships, ear training and key board harmony.

MUSC 141A. Piano Chamber Music. 2 Units
Prerequisite(s): 4 semesters of MUSC 142.
Corequisite(s): MUSC 132B or equivalent.
Term Typically Offered: Fall, Spring

Instruction in small ensemble rehearsal performance. Focus given to duos, trios, and quartets of various instrumentation with piano. Includes required performances, listening, reading , and examination.

MUSC 141B. Piano Chamber Music. 2 Units
Prerequisite(s): MUSC 141A.
Corequisite(s): MUSC 132B or equivalent.
Term Typically Offered: Fall, Spring

Continued instruction in small ensemble rehearsal performance. Focus on duos, trios, and quartets of various instrumentation with piano. Includes required performances, listening, reading, and examination.

MUSC 142B. Concert Band. 1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142C. Concert Choir. 1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142M. Marching Band. 2 Units
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142S. Orchestra. 1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142T. Opera Theater. 1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142U. University Chorus. 1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 142W. Symphonic Wind Ensemble. 1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 143J. Instrumental Jazz Ensemble. 1 Unit
Term Typically Offered: Fall, Spring

Rehearsal and performance of literature written for instrumental jazz ensemble.
Note: May be taken for credit eight times.

MUSC 143V. Vocal Jazz Ensemble. 1 Unit
Term Typically Offered: Fall, Spring

Rehearsal and performance of literature written for vocal jazz ensemble.
Note: May be taken for credit eight times.

MUSC 144B. Brass Ensemble. 1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144G. Chamber Music -- Guitar. 1 Unit
Term Typically Offered: Fall, Spring

Coaching in the performance of chamber music for guitar. Open to both BA and BM majors upon permission of major instructor of applied music. May substitute for a maximum of two semesters of major performing ensemble requirement.
Note: May be taken for credit eight times.

MUSC 144I. Chamber Music -- Instrumental Jazz. 1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144L. Chamber Music -- Liberace. 1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144P. Percussion Ensemble. 1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144S. String Ensemble. 1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144W. Woodwind Ensemble. 1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 144X. Saxophone Ensemble. 1 Unit
Term Typically Offered: Fall, Spring

Note: May be taken for credit eight times.

MUSC 145. Pep Band. 1 Unit
Corequisite(s): MUSC 142W, MUSC 142B, or MUSC 142M, or instructor permission.
Term Typically Offered: Fall, Spring

Performance of instrumental music for university and community events.

MUSC 146. Camerata Capistrano Baroque. 1 Unit
Term Typically Offered: Fall, Spring

A conductor-less ensemble that explores in-depth score study, detailed techniques for stylistic performance, and advanced concertante playing of varied repertoire from the Renaissance to contemporary works in groupings of diverse size. Instrumentalists, keyboardists and singers are invited to experience repertoire not normally encountered in the symphony orchestra or traditional chamber groups. Students w111 achieve a more comprehensive understanding of musical preparation, ensemble discipline and conductor-less performance, culminating in a final concert for a public audience. Paired with MUSC 246.
Note: Each participant must be an enrolled student or registered volunteer, admitted with Instructor permission. Non·Music majors must purchase a music fee card (Lassen Hall) In order to participate. Registered volunteers will receive a parking pass for rehearsal times after required paperwork is completed. May be taken for credit eight times.

MUSC 150. Jazz Applied: Advanced BM. 2 Units
Prerequisite(s): Approval by jazz area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction in jazz performance.
Note: May be taken for credit four times.

MUSC 150A. Jazz Applied: Advanced Mus Ed Emphasis. 1 Unit
Prerequisite(s): Approval by jazz area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction in jazz performance for students pursuing the Music Education emphasis.
Note: May be taken for credit four times.

MUSC 151. Fundamentals of Conducting. 2 Units
Prerequisite(s): MUSC 2, MUSC 7.
Term Typically Offered: Fall only

Basic techniques and skills of conducting. Areas of concern are all basic patterns in simple, compound and asymmetrical meters, correct baton technique, styles, appropriate left hand usage, tempi, fermatas, and introduction to simple score reading.

MUSC 153. Advanced Choral Conducting. 2 Units
Prerequisite(s): MUSC 151.
Term Typically Offered: Spring only

Choral techniques, including rehearsal procedures, score analysis, choral/orchestral repertoire, and approaches to choral literature from the main history eras.

MUSC 154. Advanced Instrumental Conducting. 2 Units
Prerequisite(s): MUSC 151.
Term Typically Offered: Spring only

Instrumental conducting techniques including refinement of basic conducting skills, rehearsal procedures, score study, and familiarization with and interpretation of instrumental literature.

MUSC 155A. Violin: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 155B. Violin: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 156A. Viola: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 156B. Viola: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 157A. Cello: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 157B. Cello: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 158A. Double Bass: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 158B. Double Bass: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 160. Advanced String Project Pedagogy. 1 Unit
Prerequisite(s): MUSC 60 and instructor consent
Term Typically Offered: Fall, Spring

This course is a step-by-step practicum that prepares students to be lead teachers in the Sacramento State Strings Project. Set in rigorous teaching lab, the course gives students experience in creating lesson plans and teaching in the String Project program. Student teachers learn to apply effective pedagogical methods and techniques to teach fundamental skills to beginning level children and more advanced skills to intermediate-level children.

MUSC 161. Jazz Pedagogy. 2 Units
Term Typically Offered: Spring only

Develops skills in the teaching of jazz in all of its facets and dimensions by a variety of approaches to materials, techniques and philosophies surrounding jazz education. Choosing, editing, rehearsing and programming concert materials will be taught. Also taught are scheduling, music and equipment maintenance, basic administration concerns, and other factors pertinent to operating a jazz program.

MUSC 162. Foundations of Music Education. 2 Units
Prerequisite(s): Sophomore status in music or instructor permission.
Term Typically Offered: Fall only

For majors considering a teaching career. Overview of the history, principal philosophies, current issues, methodologies and materials related to Music Education in kindergarten through twelfth grade. Guided classroom and/or rehearsal observations at the elementary, middle/junior high school and senior high levels. Required for the Music Education major.

MUSC 164. Music in General Education. 2 Units
Prerequisite(s): Sophomore status in music or instructor permission.
Term Typically Offered: Spring only

Curricular and instructional strategies for non-performance music classes in kindergarten through twelfth grade. Teaching techniques for classroom instruments, with emphasis on folk guitar. Required for the Music Education major.

MUSC 165A. Flute: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 165B. Flute: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 166A. Oboe: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 166B. Oboe: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 167A. Bassoon: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 167B. Bassoon: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 168A. Clarinet: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 168B. Clarinet: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 169A. Saxophone: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 169B. Saxophone: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 170A. Percussion: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 170B. Percussion: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 171A. Harp: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 171B. Harp: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 172. Repertoire Class in the Performance Major. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Parallel class taken in conjunction with the performance major to supplement student's knowledge of the literature, performance practice, pedagogy, and criticism of his chosen instrument or voice. May be taken for credit four times.

MUSC 173A. Vocal Accompanying. 2 Units
Prerequisite(s): 4 semesters of MUSC 142.
Corequisite(s): MUSC 132B or equivalent.
Term Typically Offered: Fall, Spring

Introductory course to piano accompanying with an emphasis on vocal literature. Includes techniques of sight reading, elementary transposition, and interpretation of lieder from the pianist's point of view.

MUSC 173B. Vocal Accompanying. 2 Units
Prerequisite(s): MUSC 173A.
Corequisite(s): MUSC 132B or equivalent.
Term Typically Offered: Fall, Spring

Continuing study of piano accompanying with an emphasis on art song repertoire. Includes techniques of sight reading, transposition, rehearsing, as well as realization of orchestral reductions. Performances required.

MUSC 174A. Guitar: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 174B. Guitar: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 175. Junior Recital. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music degree program, or instructor permission.
Term Typically Offered: Fall, Spring

Formal recital demonstrating the performance abilities of the student. Contents of the program must be approved by instructor in the major performance medium, and permission to enroll approved by the appropriate faculty committee of the performance medium.

MUSC 176. Piano Pedagogy. 2 Units
Prerequisite(s): 4 units of MUSC 32B or equivalent; admission to Bachelor of Music program, or instructor permission.
Term Typically Offered: Spring only

Study of the content, methods and problems of teaching the piano with an emphasis on the first years of instruction for both the child and adult beginner.

MUSC 178. Vocal Literature and Materials (Grades 4-12). 3 Units
Corequisite(s): Phase III Student Teaching.
Term Typically Offered: Fall only

Methods and materials for teaching voice and choral music in grades 4-12. Includes introduction to singing, care and development of the student voice, rehearsal techniques, and selection of materials appropriate for use in small and large choral ensembles.
Note: Required for Music Education students enrolled in Phase III of the Credential Program.

MUSC 179. Instrumental Literature and Materials. 2 Units
Prerequisite(s): 4 units in MUSC 40.
Term Typically Offered: Spring only

Methods and materials for beginning instrumental classes, orchestras and bands, solos and ensembles, marching band, and stage band.
Note: Required for instrumental students and recommended for choral students.

MUSC 180. Advanced Counterpoint. 2 Units
Prerequisite(s): MUSC 103 and instructor permission
Term Typically Offered: Fall, Spring

Advanced Counterpoint. Counterpoint styles from 16th to 20th centuries are studied through analysis of works from the repertoire and completion of preliminary exercises, culminating in the composition of original student pieces in various historical styles. Includes writing in two, three, and four parts. Work will be designed to a large extent to fit the needs, preparation and interest of individual students. May be taken twice for credit.

MUSC 183. Digital Synthesis and Sampling. 2 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Course for students with previous electronic music experience who wish to gain more technical background. Topics include various principles of digital synthesis with an emphasis on independent voice construction, principles of sampling synthesizers, computer-based digital synthesis, and advanced MIDI applications.

MUSC 184. Senior Seminar. 1 Unit
Prerequisite(s): Music major with senior standing
Term Typically Offered: Fall, Spring

Weekly seminar for senior students in the B.A. Music concentration. Senior portfolio preparation, resume preparation, and career planning. Credit/No Credit

MUSC 185. Senior Recital. 2 Units
Term Typically Offered: Fall, Spring

A formal recital demonstrating the performance abilities of the student. Required of all majors completing the Bachelor's degree in Music. Permission to enroll by permission of the appropriate faculty committee. MUSC 185H or MUSC 185A may be substituted for 185 with the permission of the appropriate faculty committees. Contents of the program must be approved and supervised by instructor in the performance medium.

MUSC 185A. Senior Audition. 1 Unit
Term Typically Offered: Fall, Spring

Informal program presented before a faculty committee and invited guests. It is designed to accommodate students who have special problems in developing their performance to Senior Recital level. Registration must be approved by the applied music faculty, and contents of the audition approved and supervised by instructor in the performing medium.

MUSC 185E. Senior Recital Music Education. 1 Unit
Term Typically Offered: Fall, Spring

Formal half recital, generally shared with another student. Required of students completing the BM in Music Education degree. Registration must be approved by the applied music faculty and contents of the audition approved and supervised by instructor in the performing medium.

MUSC 185H. Honors Recital. 2 Units
Term Typically Offered: Fall, Spring

Applied music faculty may designate outstanding performers for an Honors Recital. Contents of the program must be approved and supervised by instructor in the performance medium.

MUSC 185J. Senior Recital Jazz. 2 Units
Prerequisite(s): Permission by appropriate faculty committee.
Term Typically Offered: Fall, Spring

Formal recital demonstrating the performance abilities of the student in the Jazz Studies concentration. Contents of the program must be approved and supervised by instructor in the performance medium.

MUSC 190A. Trumpet: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 190B. Trumpet: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 191A. Trombone: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 191B. Trombone: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 192A. Baritone: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 192B. Baritone: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 193A. French Horn: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 193B. French Horn: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 194A. Tuba: Advanced. 1 Unit
Prerequisite(s): Approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 194B. Tuba: Advanced -- BM. 1 Unit
Prerequisite(s): Admission to the Bachelor of Music program, approval by applied area committee and instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Music majors only. May be taken for credit four times.

MUSC 195. Fieldwork in Music. 1 - 3 Units
Term Typically Offered: Fall, Spring

Directed observation and work experience with public agencies. Field work is offered for the purpose of giving students orientation in occupational specialties. Supervision is provided by both university instructional staff and cooperating agencies. Each student is required to maintain a record of activities and assignments and to prepare periodic reports. The student must make arrangements with a faculty member for a work program prior to admittance.
Credit/No Credit

MUSC 197. Music And Business. 3 Units
Term Typically Offered: Fall, Spring

Introduction to career possibilities in the area of music and business. Students will explore and develop directions of interest and opportunity through reading, discussion, lectures, and outside speakers. Individual field projects will provide the opportunity to see at close hand the workings of Sacramento area music businesses of the student's choice.

MUSC 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work. Admission requires the approval of the faculty member under whom the work is to be conducted and of the Department Chair.
Credit/No Credit

MUSC 201. Introduction to Graduate Study. 3 Units
Prerequisite(s): An undergraduate degree with music major or instructor permission.
Term Typically Offered: Fall, Spring

Systematic and historical study of the various disciplines related to music. Prepares the student to do advanced study and research. Required of all MM students in Music. Must be taken the first time scheduled after student is enrolled.
Note: Graduate Writing Intensive

MUSC 202A. Seminar in Music Education. 3 Units
Term Typically Offered: Fall, Spring

Study of current methodology in the development of reliable knowledge in the field of music education. Includes identification and formation of research problems, designing, and strategies.

MUSC 202B. Seminar in Music Education. 3 Units
Term Typically Offered: Fall, Spring

Review of current research trends in music education. Includes review of relevant literature and the definition, design, and justification of a research problem.

MUSC 206. Topics in Music History. 3 Units
Prerequisite(s): Undergraduate major in music or instructor permission
Term Typically Offered: Fall, Spring

Detailed study of topics in music history and their relation to musical style, performance, reception, and cultural context. Designed to allow narrow focus on the historical contexts of a particular theory, repertoire, performance practice, or critical stance. May be repeated for credit with different topics.

MUSC 207. Topics in Music Analysis. 3 Units
Prerequisite(s): Undergraduate major in music or instructor permission.
Term Typically Offered: Fall, Spring

Detailed study of topics in music analysis and its relation to harmony, rhythm, style, and form. Designed to allow narrowed focus on music of a select composer or small group of com posers. May be repeated for credit with different topics.

MUSC 208. Topics in Ethnomusicology. 3 Units
Prerequisite(s): Undergraduate major in music or instructor permission.
Term Typically Offered: Fall, Spring

Current practices, methodologies, and scholarly agendas in the field of ethnomusicology including global studies of traditional, classical, folk, and popular musics. Readings from interdisciplinary literature. Students respond in discussion and writing to this scholarly discourse in order to familiarize themselves with theoretical approaches current in the discipline and to practice the spoken and written conventions of the field.

MUSC 210. Composition. 2 Units
Prerequisite(s): Undergraduate composition and instructor permission.
Term Typically Offered: Fall, Spring

Advanced work in composition for students seeking the MM degree with composition option. May be taken for credit twice.

MUSC 211. Graduate Music Theory. 3 Units
Term Typically Offered: Fall, Spring

Comprehensive and intensive overview of the major disciplines of music theory with an emphasis on application of skills. Focus is mainly on tonal practice (part writing, figured bass realization, chromatic harmony, melodic construction, phrase structure, reductive analysis, forms) but also includes discussion of post-tonal music and applicable analytical techniques (extended scalar resources, dodecaphony, set-theory).

MUSC 214. Ethnomusicology. 3 Units
Term Typically Offered: Fall, Spring

Introduction to the field of Ethnomusicology with an emphasis on its history, development, contemporary trends, research issues, and methodologies.
Note: May be used as a music history elective.

MUSC 217A. Choral Conducting Applied Music. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Graduate music majors only. May be taken for credit four times.
Note: Limited to choral conducting students only.

MUSC 217B. Instrumental Conducting Applied Music. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Graduate music majors only. May be taken for credit four times.
Note: Limited to instrumental conducting students only.

MUSC 218A. Choral Conducting Techniques. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Training in technique and repertoire at the graduate level. May be taken for credit four times.
Note: Limited to choral conducting students only.

MUSC 218B. Instrumental Conducting Techniques. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Training in technique and repertoire at the graduate level. May be taken for credit four times.
Note: Limited to instrumental conducting students only.

MUSC 219. Graduate Applied Music. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Classified graduate Music majors and graduate music credential candidates only. May be taken for credit four times.

MUSC 220. Performance Techniques. 1 Unit
Prerequisite(s): Approval by area applied music committee to enter performance option for the MM; instructor permission.
Term Typically Offered: Fall, Spring

Individual instruction. Classified graduate Music majors only. Training in technique and repertoire at the graduate level. May be taken for credit four times.

MUSC 242. Advanced Large Performance Ensemble. 1 Unit
Term Typically Offered: Fall, Spring

Study, rehearsal, and public performance of musical repertoire appropriate for the specific ensemble (e.g. orchestra, band, choir, opera, etc.).

MUSC 244. Advanced Chamber Music. 1 Unit
Term Typically Offered: Fall, Spring

Study, rehearsal, and public performance of musical repertoire appropriate for the specific ensemble (e.g. string quartet, wind quintet, etc.).

MUSC 246. Camerata Capistrano Baroque. 1 Unit
Term Typically Offered: Fall, Spring

A conductor-less ensemble that explores in-depth score study, detailed techniques for stylistic performance, and advanced concertante playing of repertoire from the Renaissance to newly composed works In groupings of diverse size. Instrumentalists, keyboardists and singers are invited to experience repertoire not normally encountered in the symphony orchestra or traditional chamber groups. Students will ultimately achieve a more comprehensive understanding of musical preparation, ensemble discipline and conductor-less performance, culminating in a final concert for a public audience. Paired with MUSC 146.
Note: This course is paired with MUSC 146. Students who have received credit for MUSC 146 as an undergraduate student at CSU Sacramento will not receive credit for MUSC 246. Each participant must be an enrolled student or registered volunteer, admitted with Instructor permission. Non-Music majors must purchase a music fee card (Lassen Hall) in order to participate. Registered volunteers will receive a parking pass for rehearsal times after required paperwork Is completed. May be taken for credit four times.

MUSC 285. Graduate Recital. 2 Units
Prerequisite(s): Permission to enter Performance option and approval of Music Department Graduate Studies Committee.
Term Typically Offered: Fall, Spring

Public recital demonstrating the performance abilities and musical maturity of the student. Content of the recital and quality of performance must be approved by instructor in the performance medium. Must articulate with MUSC 500B.

MUSC 295. Fieldwork in Music. 1 - 3 Units
Term Typically Offered: Fall, Spring

Directed observation and work experience. Fieldwork is offered for the purpose of giving students orientation in occupational specialties. Supervision is provided by both the instructional staff of the university and cooperating agencies. Each student is required to maintain a record of activities and assignments and to prepare periodic reports. The student must make arrangements with a faculty member for a work program prior to admittance to the course.
Credit/No Credit

MUSC 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty member under whom the work is to be conducted and the Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work.
Credit/No Credit

MUSC 500. Culminating Experience. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission from the graduate coordinator.
Term Typically Offered: Fall, Spring

Completion of thesis or project approved for the Master's degree. Three options are available:

MUSC 500D. Comprehensive Examination. 0 Units
Prerequisite(s): Advanced to Candidacy and permission from graduate coordinator.
Term Typically Offered: Fall, Spring

The Comprehensive Examination is one of the culminating experiences available for the Master of Music Education Degree. The one-hour oral examination is taken during the final semester of the degree program and administered by a three-member graduate faculty committe. The material to be addressed includes the content of classess taken and the application of concepts as applied to music education.
Credit/No Credit

Natural Sciences and Mathematics (NSM)

NSM 12A. Peer-Assisted Learning for CHEM 4. 1 Unit
Corequisite(s): CHEM 4
Term Typically Offered: Fall, Spring

Students concurrently enrolled in CHEM 4 and under the guidance of a trained student leader (PAL leader) work collaboratively through problem sets designed by the CHEM 4 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in CHEM 4.
Note: May be repeated for credit

Credit/No Credit

NSM 12B. Peer-Assisted Learning for MATH 29. 1 Unit
Corequisite(s): MATH 29
Term Typically Offered: Fall, Spring

Students concurrently enrolled in MATH 29 and under the guidance of a trained student leader (PAL leader) work collaboratively through problem sets designed by the MATH 29 instructor. Pedagogical strategies that encourage active engaged learning are employed to facilitate student success in MATH 29.
Note: May be repeated for credit

Credit/No Credit

NSM 12C. Peer-Assisted Learning for CHEM 1A. 1 Unit
Corequisite(s): CHEM 1A
Term Typically Offered: Fall, Spring

Students concurrently enrolled in CHEM 1A and under the guidance of a trained student leader (PAL leader) work collaboratively through problem sets designed by the CHEM 1A instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in CHEM 1A.
Note: May be repeated for credit

Credit/No Credit

NSM 12D. Peer-Assisted Learning for CHEM 1B. 1 Unit
Corequisite(s): CHEM 1B
Term Typically Offered: Fall, Spring

Students concurrently enrolled in CHEM 1B and under the guidance of a trained student leader (PAL leader) work collaboratively through problem sets designed by the CHEM 1B instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in CHEM 1B.
Note: May be repeated for credit

Credit/No Credit

NSM 12E. Peer-Assisted Learning for MATH 30. 1 Unit
Corequisite(s): MATH 30
Term Typically Offered: Fall, Spring

Students concurrently enrolled in MATH 30 and under the guidance of a trained student leader (PAL leader) work collaboratively through problem sets designed by the MATH 30 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in MATH 30.
Note: May be repeated for credit

Credit/No Credit

NSM 12F. Peer-Assisted Learning MATH 31. 1 Unit
Corequisite(s): Enrollment in MATH 31
Term Typically Offered: Fall, Spring

NSM 12F Peer-Assisted Learning MATH 31. Discussion, 2 hours. Students concurrently enrolled in MATH 31 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a MATH 31 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in MATH 31.
Credit/No Credit

NSM 12G. Peer-Assisted Learning PHYS 11A. 1 Unit
Corequisite(s): Enrollment in PHYS 11A
Term Typically Offered: Fall, Spring

NSM 12G Peer-Assisted Learning Physics 11A. Discussion, 2 hours. Students concurrently enrolled in PHYS 11A and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a PHYS 11A instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in MATH 31.
Credit/No Credit

NSM 12H. Peer-Assisted Learning BIO 121. 1 Unit
Corequisite(s): Enrollment in BIO 121
Term Typically Offered: Fall, Spring

NSM 12F Peer-Assisted Learning BIO 121. Discussion, 2 hours. Students concurrently enrolled in BIO 121 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a BIO 121 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in BIO 121.
Credit/No Credit

NSM 12I. Peer-Assisted Learning BIO 22. 1 Unit
Corequisite(s): Enrollment in BIO 22
Term Typically Offered: Fall, Spring

NSM 12I Peer-Assisted Learning BIO 22. Discussion, 2 hours. Students concurrently enrolled in BIO 22 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by the BIO 22 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in BIO 22.
Credit/No Credit

NSM 12J. Peer-Assisted Learning Math 32. 1 Unit
Corequisite(s): MATH 32
Students concurrently enrolled in MATH 32 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a MATH 32 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in MATH 32.
Credit/No Credit

NSM 12K. Peer-Assisted Learning BIO 139. 1 Unit
Corequisite(s): BIO 139
Students concurrently enrolled in BIO 139 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a BIO 139 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in BIO 139.
Credit/No Credit

NSM 12L. Peer-Assisted Learning BIO 184. 1 Unit
Corequisite(s): BIO 184
Students concurrently enrolled in BIO 184 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a BIO 184 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in BIO 184.
Credit/No Credit

NSM 12M. Peer-Assisted Learning CHEM 5. 1 Unit
Corequisite(s): CHEM 5
Students concurrently enrolled in CHEM 5 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a CHEM 5 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in CHEM 5.
Credit/No Credit

NSM 12N. Peer-Assisted Learning CHEM 24. 1 Unit
Corequisite(s): CHEM 24
Students concurrently enrolled in CHEM 24 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a CHEM 24 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in CHEM 24.
Credit/No Credit

NSM 12P. Peer-Assisted Learning STAT 1. 1 Unit
Corequisite(s): STAT 1
Term Typically Offered: Fall, Spring

NSM 12P Peer-Assisted Learning STAT 1. Discussion, 2 hours. Students concurrently enrolled in STAT 1 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a STAT 1 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in STAT 1.
Credit/No Credit

NSM 12Q. Peer-Assisted Learning STAT 50. 1 Unit
Corequisite(s): STAT 50
Term Typically Offered: Fall, Spring

NSM 12Q Peer-Assisted Learning STAT 50. Discussion, 2 hours. Students concurrently enrolled in STAT 50 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a STAT 50 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in STAT 50.
Credit/No Credit

NSM 12R. Peer-Assisted Learning MATH 12. 1 Unit
Corequisite(s): MATH 12
Term Typically Offered: Fall, Spring

NSM 12R Peer-Assisted Learning MATH12. Discussion, 2 hours. Students concurrently enrolled in MATH 12 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a MATH 12 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in MATH 12.
Credit/No Credit

NSM 12S. Peer-Assisted Learning CHEM 124. 1 Unit
Corequisite(s): CHEM 124
Term Typically Offered: Fall, Spring

NSM 12S Peer-Assisted Learning CHEM 124. Discussion, 2 hours. Students concurrently enrolled in CHEM 124 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a CHEM 124 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in CHEM 124.
Credit/No Credit

NSM 12T. Peer-Assisted Learning PHYS 5A. 1 Unit
Corequisite(s): PHYS 5A
Term Typically Offered: Fall, Spring

NSM 12T Peer-Assisted Learning PHYS 5A. Discussion, 2 hours. Students concurrently enrolled in PHYS 5A and under the guidance of a trained student facilitator work collaboratively through problem sets designed by a PHYS 5A instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in PHYS 5A.
Credit/No Credit

NSM 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education and the functions and resources of the university. Designed to help students develop academic success strategies and improve academic skills. Students will interact with fellow students to build a community of academic and personal support. Introduces science and math as academic disciplines by requiring students to interpret scientific literature.

NSM 86A. STEM Learning Practices for Future Teachers. 3 Units
Prerequisite(s): Three years of high school mathematics and three years of high school science preferred.
Term Typically Offered: Fall only

The first course in a two-course pairing. The course is for freshmen intending to be elementary/junior high school teachers with special skills and knowledge in science curriculum and science pedagogy for the K-9 grade span. Students will learn course content through activities, tasks, and assignments that require them to expand their knowledge of science and mathematics concepts and skills as well as synthesize them in relation to real-world issues and problems.
Note: Field Trip. Observations in local public K-8 schools

Field trip(s) may be required.

NSM 86B. Advanced STEM Learning Practices for Future Teachers. 3 Units
Prerequisite(s): NSM 86A
Term Typically Offered: Spring only

The second course in a two-course pairing, intended for future elementary/junior high school teachers especially interested in science. This course extends the learning of mathematics and science content knowledge and disciplinary practices from NSM 86A by integrating engineering content and the engineering design cycle. Students will learn course content through activities, tasks, and assignments that require them to synthesize and apply their knowledge of science, engineering, and mathematics concepts and skills to complex and inter-disciplinary real-world issues and problems.
Note: Field trip. Observations in local public K-8 schools.

Field trip(s) may be required.

NSM 88. Exploring Health Careers. 1 Unit
Term Typically Offered: Fall, Spring

Designed for pre-professional students, this self exploration course will assist students in determining whether a career in the health professions is suitable to their interest, skills, and values. In addition to exploring the traditional health professions medicine, pharmacy, etc., students will have opportunity to explore alternative health professions and career options. This active learning course will include lectures, discussions, individual and group projects, informational interviews, and guest speakers. One hour per week.
Credit/No Credit

NSM 90. Biomedical Research Seminars. 1 Unit
Term Typically Offered: Fall, Spring

Professional scientists, graduate students and senior undergraduate researchers in biomedical sciences will present their research. Students will develop critical skills to become active participants in dialogs with seminar presenters. Students will explore and cultivate their interest towards biomedical research careers and compile a portfolio to archive their course achievements. During their senior year, undergraduate researchers will also deliver presentations of their own work.
Credit/No Credit

NSM 96. Peer-Assisted Learning MATH 32. 1 Unit
Corequisite(s): MATH 32
Term Typically Offered: Fall, Spring

Students concurrently enrolled in MATH 32 and under the guidance of a trained student facilitator work collaboratively through problem sets designed by the MATH 32 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student success in MATH 32.
Credit/No Credit

NSM 100A. Transfer Seminar I. 1 Unit
Prerequisite(s): first-semester transfer student
Designed for first-semester transfer students in the College of NSM. Series of at least 10 seminars related to campus and career-based opportunities, integration with peers, and promotion of academic mindset.
Credit/No Credit

NSM 100B. Transfer Seminar II. 1 Unit
Prerequisite(s): second-semester transfer student
Designed for second-semester transfer students in the College of NSM. Series of at least 10 seminars related to campus and career-based opportunities for employment, preparation for entering the STEM workforce, and integration with peers and colleagues.
Credit/No Credit

NSM 190. Senior Thesis Seminar. 3 Units
Term Typically Offered: Spring only

Develops the ability of undergraduate researchers to search, interpret, and add to the biomedical research literature. Students develop a senior thesis or proposal and an oral presentation. Includes analysis of primary research articles, peer review of student writing samples, and presentation of scientific information. These activities improve students' understanding of how scientific questions are developed, posed, and answered through proposals and dissemination of research results.

NSM 196. Conceptual Understanding of Science for Teachers. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Intensive examination of selected topics in science for teachers. The goal is to develop a deep conceptual understanding of the science under consideration, knowledge of common misconceptions about the concept, and effective ways to guide student learning of the selected topic.
Cross Listed: NSM 296; only one may be counted for credit.

Credit/No Credit

NSM 196A. Science Topics for Middle School. 1 - 3 Units
Prerequisite(s): Multiple Subject Credential and instructor permission
Term Typically Offered: Fall, Spring

Intensive examination of selected topics in science for teachers pursuing subject matter knowledge needed for a general science credential. The goal is to deepen and broaden students' conceptual and factual knowledge base for selected topics. Course will involve hands-on tasks designed to enhance conceptual understanding as well as lectures, small group work and independent tasks necessary for learning the subject matter.

NSM 197. Seminar in Peer-Assisted Learning. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): Acceptance as PAL facilitator
Term Typically Offered: Fall, Spring

Specific classroom training for advanced students who are concurrently serving as PAL facilitators within NSM. Action research on learning theory as applied to classroom setting with culminating research presentation.

NSM 197B. Advanced Seminar in Peer-Assisted Learning. 2 Units
Prerequisite(s): NSM 197
Term Typically Offered: Fall, Spring

Specific classroom training for advanced students who are concurrently serving as PAL facilitators within NSM. Action research on learning theory as applied to classroom settings with culminating research presentation. Instructor permission required for enrollment. Lecture & Discussion, 2 hours.

NSM 197C. Seminar for Lead & Supervisory Facilitators. 2 Units
Prerequisite(s): NSM 197A or NSM 197B
Specific classroom training for advanced students who are concurrently serving Lead or Supervisory PAL facilitators within NSM. Leadership and assessment of program effectiveness with a culminating research presentation. Instructor permission required for enrollment.

NSM 198. Co-curricular Activities in Natural Sciences and Mathematics. 1 - 3 Units
Prerequisite(s): Admission to this course requires approval of instructor.
Term Typically Offered: Fall, Spring

Earned credit by participating as tutor or teacher assistant in public schools, volunteering as an instructor or tutor in K-12 courses or programs offered by other community organizations, or engagement in community education programs, which are based in one or more disciplines in NSM. Participation requires three to twelve hours weekly.
Note: May be taken more than once but no more than three units may be applied toward the baccalaureate degree.

Credit/No Credit

NSM 296. Conceptual Understanding of Science for Teachers. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Intensive examination of selected topics in science for teachers. The goal is to develop a deep conceptual understanding of the science under consideration, knowledge of common misconceptions about the concept, and effective ways to guide student learning of the selected topic.
Note: May be repeated for credit. Cross listed: NSM 196.

Credit/No Credit

Nursing (NURS)

NURS 10. Health Care: Issues and Delivery Systems. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Explores the relationships between social, political and economic systems, and the health care and delivery systems currently operational in the U.S. today. Provides a format to debate current biomedical issues and explores crosscultural health practices. Lecture three hours.

NURS 14. Pharmacology. 2 Units
Prerequisite(s): Entry level physiology course, such as BIO 25 or BIO 26
Term Typically Offered: Fall, Spring

Basic principles of pharmacology with a focus on pharmacokinetics, pharmacodynamics and related therapeutic implications for major drug categories. May be taken by pre-nursing or non-nursing students. Lecture two hours.

NURS 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Also provides students with an opportunity to interact with fellow students and the seminar leader and to build a community of academic and personal support.

NURS 53. Paramedic Skills Part 1. 2 Units
Prerequisite(s): Admission to the Paramedic program
Corequisite(s): NURS 51
Term Typically Offered: Fall, Spring

Part 1 of foundational ALS skills content for pre-hospital care in the Emergency Medical System (EMS). Participants apply theoretical knowledge of Advanced Life Support in skills lab and simulated patient care experiences. Students will practice assessment and intervention of psychomotor skills for Advanced Life Support (ALS), Advanced Cardiac Life Support (ACLS), Pediatric Advanced Cardiac Life Support (PALS) and International Trauma Life Support (ITLS).

NURS 54. Paramedic Skills Part 2. 3 Units
Prerequisite(s): Admission to the Paramedic program, NURS 51 & NURS 53
Corequisite(s): NURS 52
Term Typically Offered: Fall, Spring

Part 2 of foundational ALS skills content for pre-hospital care in the Emergency Medical System (EMS). Participants apply theoretical knowledge of Advanced Life Support in skills lab and simulated patient care experiences. This is the skills section of NURS 52. Students will practice assessment and intervention of psychomotor skills for Advanced Life Support (ALS), Advanced Cardiac Life Support (ACLS), Pediatric Advanced Cardiac Life Support (PALS) and International Trauma Life Support (ITLS).

NURS 111. Introduction to Professional Nursing. 3 Units
Prerequisite(s): Admission to Nursing program or instructor permission
Term Typically Offered: Fall, Spring

Provides a conceptual base for the practice of professional nursing. The changing and expanding roles of the professional nurse in the health care delivery system are explored, with an emphasis on professional behavior, ethics, evidence-based practice and informatics. Lecture three hours.
Note: may be repeated for credit

NURS 112. Nursing Care Of Adults. 5 Units
Prerequisite(s): Admission to the Nursing Program
Corequisite(s): NURS 111, NURS 113
Term Typically Offered: Fall, Spring

Introduction and application of nursing concepts in meeting health needs of adults. Emphasis is placed on health promotion and disease management across the adult life span. Lecture three hours; laboratory six hours
Note: May be repeated for credit

NURS 113. Professional Nursing Communication, Assessment and Skills. 4 Units
Prerequisite(s): Admission to nursing program
Corequisite(s): NURS 111 and NURS 112
Term Typically Offered: Fall, Spring

Apply nursing practice concepts in assessment, skills, and professional communication in the context of laboratory scenarios and field experiences across the lifespan. Laboratory twelve hours.

NURS 119. Mental Health Nursing for the LVN 30-Unit Option. 4 Units
Prerequisite(s): Microbiology with a lab, Physiology with a lab, and California licensure as a Vocational Nurse.
Corequisite(s): Nurs 123.
Term Typically Offered: Fall, Spring

Theoretical basis for the nursing care of individuals who require nursing intervention to achieve and maintain mental health through adaptive processes. The course includes a supervised practicum which incorporates therapeutic modalities. A variety of psychodynamic theories related to anxiety, interpersonal relationships, crisis intervention, and group process are discussed.

NURS 120. Nursing Application of Research and Critical Analysis. 3 Units
Prerequisite(s): NURS 111, NURS 112, NURS 113 or instructor permission. GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Evaluation and application of research to nursing practice. Emphasis is placed on application of evidence to improve quality and safety in healthcare and advance nursing practice. Develop an understanding of the humanities and diverse cultures through the lens of nursing practice. Application of a critical framework of sociocultural, historical, and economic perspectives to analyze scholarly inquiry of health and healthcare.

NURS 123. Nursing Families in Complex Illness. 6 Units
Prerequisite(s): NURS 111, NURS 112 and NURS 113; or instructor permission.
Term Typically Offered: Fall, Spring

Provides students with the opportunity to learn and apply nursing concepts through the care of individuals and families experiencing complex illness across the adult lifespan. The focus is on skill development and the synthesis of data from multiple sources to formulate nursing interventions. Lecture three hours; laboratory six hours.
Note: May be repeated for credit

NURS 129. Mental Health Nursing. 5 Units
Prerequisite(s): NURS 111, NURS 112 and NURS 113; or instructor permission
Term Typically Offered: Fall, Spring

Provides an overview of multidimensional factors, perspectives, and approaches associated with mental health across the lifespan. Mental health concepts and interventions are applied across multiple settings. Lecture three hours; laboratory six hours.
Note: May be repeated for credit

NURS 133. Leadership and Management for the LVN to RN. 2 Units
Prerequisite(s): Microbiology with a lab; Physiology with a lab; NURS 119 and NURS 123
Corequisite(s): NURS 137 and NURS 138
Term Typically Offered: Fall, Spring

This course is designed to present leadership and management skills for the Licensed Vocational Nurse transitioning to the Registered Nurse role. The principle and processes of administration, management, and supervision will be discussed within an organizational framework. Lecture two hours.

NURS 136. Nursing Laboratory for the Childbearing Family. 1 Unit
Prerequisite(s): NURS 120, NURS 123 and NURS 129, or instructor permission
Corequisite(s): NURS 137
Term Typically Offered: Fall, Spring

Application of skills and assessment in the care of the childbearing family and women experiencing reproductive health changes across the lifespan.
Credit/No Credit

NURS 137. Nursing the Childbearing Family. 5 Units
Prerequisite(s): NURS 120, NURS 123 and NURS 129 or instructor permission.
Corequisite(s): NURS 136.
Term Typically Offered: Fall, Spring

Application of nursing concepts in the care of the childbearing family and women experiencing reproductive health changes across the lifespan. Lecture three hours; laboratory six hours.
Note: May be repeated for credit

NURS 138. Nursing the Childrearing Family. 5 Units
Prerequisite(s): NURS 120, NURS 123, NURS 129, or instructor permission
Corequisite(s): NURS 139
Term Typically Offered: Fall, Spring

Introduction and application of nursing concepts in meeting health needs of the child from birth through adolescence. Emphasis is placed on health promotion and disease management within the context of the family and applied across multiple settings. Lecture three hours; laboratory six hours.
Note: May be repeated for credit

NURS 139. Nursing Laboratory for the Childrearing Family. 1 Unit
Prerequisite(s): NURS 120, NURS 123, NURS 129, or instructor permission
Corequisite(s): NURS 138
Term Typically Offered: Fall, Spring

Acquisition of knowledge and practice using tools and techniques for assessing the child and the family in a variety of settings. Laboratory three hours.
Note: May be repeated for credit

Credit/No Credit

NURS 143. Leadership and Management in Nursing Practice. 3 Units
Prerequisite(s): NURS 136, NURS 137, NURS 138, and NURS 139, or instructor permission.
Term Typically Offered: Fall, Spring

Integration of leadership and management principles to promote health across the lifespan and care settings. Application of leadership and management principles in the examination of organizational structures, processes, and approaches to quality and safety concepts in health care systems and practice environments. Emphasis will be placed on career development and transition to professional practice.
Note: May be repeated for credit. Lecture three hours.

NURS 144. Community Health Nursing. 5 Units
Prerequisite(s): NURS 136, NURS 137, NURS 138, and NURS 139, or instructor permission.
Term Typically Offered: Fall, Spring

Contemporary role of the community health nurse is presented within a public health framework, emphasizing the concept of community as client. Presents nursing interventions related to groups and aggregates identified as high risk for the development of health problems. Clinical experience is provided across community settings. Lecture and clinical hours.
Note: May be repeated for credit

NURS 145. Clinical Leadership and Professional Role Development. 6 Units
Prerequisite(s): NURS 136, NURS 137, NURS 138, NURS 139 or instructor permission.
Corequisite(s): NURS 144.
Term Typically Offered: Fall, Spring

The purpose of this culminating senior practicum is to facilitate the transition of the nursing student into the role of a professional BSN graduate nurse. The course will integrate the theoretical and clinical nursing concepts acquired throughout the curriculum into a precepted senior practicum. Students will apply principles of clinical nursing, nursing management and nursing leadership in a selected clinical setting. Credit/No Credit

NURS 160. Human Sexuality. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Designed to explore the physiological, sociological, and psychological components of human sexuality in a sufficiently detailed manner to dispel the myths and confusion enveloping this sensitive subject. Students will be able to integrate these components in a meaningful pattern into their own lives, be better able to understand and accept their own sexual needs and behavior, and be more accepting and understanding of persons whose sexual attitudes and behavior might from their own.

NURS 165. Hospice and Palliative Nursing Care. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer

Evaluation of the role of the nurse in providing family-centered care throughout the death and dying process within a historical and cultural context. Exploration of differences in organizational models to end-of-life care, including hospice and palliative care. Integration of nursing care into unique cultural values and beliefs. Examination of significant aspects of cultural and social differences in death and dying.

NURS 167. Women's Health. 3 Units
Term Typically Offered: Fall, Spring

Designed for people seeking knowledge about women's health, women's health risks, and the delivery of traditional and non-traditional medical interventions for the maintenance of health and management of illness. Covers the physiological and psychological components of women's health. The leading acute and chronic illnesses which affect women are introduced. Discussions include: means of sustaining a wellness lifestyle; identification, management and consultation for acute and chronic illness; normal physiological life changes and adaptations to aging; mind/body connection in the control of health and illness; pharmacology and drug therapy for women; health management for infants and children; access and control of care for women in traditional and non-traditional health settings; and research in women's health. Lecture-discussion three hours.

NURS 168. The Brain and Gender-Related Differences. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Gender-related differences which are mediated by the brain are examined from the theoretical framework of evolution. The place of molecular genetics, hormone physiology, neural function, biomedical research, human development, personality theory and research, and crosscultural research are studied in an attempt to understand the processes that affect sex differences. Gender-related differences in normal and abnormal behavior resulting from chronic and acute disease, and pathological states, will be introduced. The student should acquire the fundamentals of a scientific understanding of gender-related differences between humans, and an appreciation of the unique role the brain plays in the mediation of these differences.

NURS 170. Foundations for Evidence-Based Nursing Practice. 3 Units
Prerequisite(s): Acceptance into the RN to BSN Program or instructor permission.
Term Typically Offered: Fall, Spring

This course provides an overview of nursing research and application to practice. Students will identify components of evidence-based practice and develop skills in critiquing research and in professional writing.

NURS 171. Transitional Concepts: The Baccalaureate Nurse. 6 Units
Prerequisite(s): NURS 170, may be taken concurrently.
Term Typically Offered: Fall, Spring

This course expands students' knowledge of theories, concepts, and social issues which have implications for nursing practice. Assignments and experiences are designed to transition the RN to the baccalaureate level of proficiency.

NURS 171A. Transitional Concepts: The Baccalaureate Nurse Role. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently
This course expands students' knowledge of theories, concepts, and social issues which have implications for the role of the nurse in any professional setting. Assignments and experiences are designed to transition the RN to the baccalaureate level of proficiency.

NURS 171B. Transitional Concepts: The Client Lifespan. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently
This course expands students' knowledge of theories, concepts, and social issues which have implications for health across the lifespan. Assignments and experiences are designed to transition the RN to the baccalaureate level of proficiency.

NURS 173. Theoretical Foundations for Leadership and Management. 6 Units
Prerequisite(s): NURS 170, may be taken concurrently.
Term Typically Offered: Fall, Spring

This course provides the theoretical foundations for leadership and management across multiple settings. Theories related to the principles and processes of leadership and management will be applied to select practice experiences.

NURS 173A. Theoretical Foundations for Leadership. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently
This course provides the theoretical foundations for leadership across multiple settings. Theories related to the principles and processes of leadership will be applied to select practice experiences.

NURS 173B. Theoretical Foundations for Management. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently
This course provides the theoretical foundations for management across multiple settings. Theories related to the principles and processes of management will be applied to select practice experiences.

NURS 174. Community Health Nursing: Concepts and Practice. 4 Units
Prerequisite(s): NURS 170, may be taken concurrently.
Term Typically Offered: Fall, Spring

This course presents the role of the community health nurse within a public health framework and examines public health systems, policies, and socioecological factors that shape the health of individuals, groups, and communities. Students will be introduced to principles of population health, epidemiology, disease prevention, and health promotion, to plan community health nursing interventions.

NURS 174C. Community Health Nursing: Clinical Elective. 2 Units
Prerequisite(s): NURS 170, NURS 174, both may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

In this course students will integrate and apply knowledge of population-based nursing and evaluate the role of the community health nurse in various systems. Students will provide care to individuals, families, or communities within a public health framework. This course meets the California BRN clinical requirements for the Public Health Nurse Certificate.
Note: NURS 174C is an elective course that is only required for students wishing to apply for the California Board of Registered Nursing Public Health Nurse Certificate; students not planning to apply for a Public Health Nurse Certificate must petition for an exemption from this clinical course; students who are granted exemption for NURS 174C will only complete 44 units.

NURS 178. Culminating Project. 3 Units
Prerequisite(s): Completion of 19 units in the program or instructor permission.
Term Typically Offered: Fall, Spring

Students will apply leadership and management principles within a community to determine a defined need or issue, identify goals to meet or solve the issue, and complete the culminating project based on previous course work.

NURS 179. Professional Communication and Reasoning Development. 3 Units
Prerequisite(s): NURS 170, may be taken concurrently; and either department permission or GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall, Spring

This hybrid course is designed to expand communication and leadership skills among RN to BSN students in their professional practice. Students will develop an understanding of the humanities and diverse cultures through the lens of nursing practice. Specifically, students will reflect on how culture and experience determines the human condition which is reflected in their animating ideas and values towards health and healthcare.

NURS 194. Work Study in Nursing. 1 - 12 Units
Prerequisite(s): NURS 120, NURS 123 and NURS129; School of Nursing faculty recommendation; Instructor permission; Minimum 2.5 GPA
Corequisite(s): Enrollment in undergraduate nursing program
Term Typically Offered: Fall, Spring

Nursing students participate in clinical nursing experiences that reflect the realities of the healthcare enviroment and have oppurtunity to master learned skills.
Note: May be repeated for credit

Credit/No Credit

NURS 195. Field Study. 1 - 6 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Guided study and experience in a specified nursing area.
Credit/No Credit

NURS 199. Special Problems. 2 Units
Term Typically Offered: Fall, Spring

Individual projects and directed reading for students who are competent to assume independent work. Admission to this course requires approval of faculty member under whom the independent work is to be conducted.
Credit/No Credit

NURS 209. Advanced Role Development in Nursing. 3 Units
Prerequisite(s): Admission to Graduate Program.
Term Typically Offered: Fall, Spring

Students will explore emerging issues in healthcare and consider how these issues shape their practice. Through examination of current issues and challenges confronting the nursing profession, analysis of the literature, examination of personal values, rights, and obligations, and the application of ethical decision-making processes, students' ability to engage in ethical discussions will be enhanced, as will their ability to provide professional leadership.
Note: Satisfies the GWAR requirement.

NURS 210. Research as the Foundation for Advanced Nursing. 3 Units
Prerequisite(s): Admission to the graduate program for nursing
Term Typically Offered: Fall, Spring

Participants will explore nursing research as the foundation for clinical and organizational decision making. Content will include understanding key elements of evidence-based practice, developing skills to access data bases in nursing and healthcare, evaluation of evidence in nursing including published nursing research, problem identification within the practice setting, and incorporation of evidence in initiating change and improving clinical practice.

NURS 213. Seminar in Organizational and Systems Leadership. 3 Units
Prerequisite(s): NURS 209 and NURS 210, and 21 units of graduate coursework.
Term Typically Offered: Fall, Spring

This course requires that students operationalize knowledge, skills, and dispositions acquired in previous courses. Students will identify contemporary healthcare issues and apply graduate core competencies to guide nursing praxis in the planning, implementation and evaluation of quality healthcare for individuals, families, groups and communities.

NURS 213C. Seminar in Specialized Nursing Processes: School Nursing I. 4 Units
Prerequisite(s): Admission to School Nurse Credential Program.
Term Typically Offered: Fall, Spring

Provision and application of concepts needed for nursing practice in the schools. Focuses on the three major competencies of school nursing practice: providing health and wellness services, providing direct client care services for school age children (pre-k through age 22), and professional management of school nursing services. Emphasis is on the foundations of school nursing practice, legal and ethical issues, special education services, and management of episodic illness and chronic health conditions.

NURS 213D. Seminar in Specialized Nursing Processes: School Nursing II. 4 Units
Prerequisite(s): NURS 213C.
Term Typically Offered: Fall, Spring

Provision and application of concepts needed for nursing practice in the schools. Focuses on the three major competencies of school nursing practice: providing health and wellness services, direct client care services for school age children (pre-k through age 22), and health service program coordination and management. Emphasis is on ethical issues and federal laws addressing education for students with disabilities, health promotion programs, issues of adolescent health, and behavior assessment and management including considerations for students receiving special education services.

NURS 214. Educational Program Development in Nursing. 3 Units
Prerequisite(s): NURS 209 and NURS 210 or instructor's permission
Term Typically Offered: Fall, Spring

Introduction to curriculum development and instructional design concepts in preparation for the role of educator in an educational institution or health care setting. Emphasis will be on instructional design, instructional strategies, and measurement of learner outcomes. Lecture three hours.
Note: FOCUS alternates between K-12 and higher education.

NURS 214C. Educational Program Development in Nursing II. 3 Units
Prerequisite(s): NURS 214B.
Corequisite(s): NURS 294C.
Term Typically Offered: Fall, Spring

Introduction to curriculum development and instructional design concepts in preparation for the role of educator in an educational institution or health care setting. Continues emphasis on instructional design, related to curriculum development and implementation, and to program evaluation. Lecture three hours.
Note: FOCUS alternates between K-12 and higher education.

NURS 215. Community Health Services and Policy. 3 Units
Prerequisite(s): NURS 209 and NURS 210, or instructor's permission
Term Typically Offered: Fall, Spring

Examines issues of health policy, financing, and the organization and delivery of health services at the local, national, and global levels. Health promotion will be defined and the influence of community on the individual, group, and family's health will be explored. Epidemiological data bases will be identified. These data bases will be critiqued and used to develop a health promotion program.

NURS 216. Vision and Scoliosis Screening. 1 Unit
Term Typically Offered: Fall, Spring

Theory and practice of detecting idiopathic scoliosis, and visual disorders resulting from inadequate refraction, ocular mal-alignment, and color deficiency in the school setting. The pathophysiology of said conditions will be presented, the nursing role delineated, and opportunities for paired screening practice provided.

NURS 230. Advanced Concepts in Pathophysiology. 3 Units
Term Typically Offered: Fall, Spring

Seminar designed to promote the understanding and application of fundamental disease processes and physiological principles in cross-clinical settings for the purpose of improving nursing assessments and patient care management. Lecture three hours.

NURS 231. Pharmacology for Advanced Practice. 3 Units
Term Typically Offered: Fall, Spring

Conceptual and systematic study of pharmacodynamics, pharmacokinetics, pharmacoeconomics and therapeutic implications for healthcare practitioners. Efficient use of traditional and web based pharmaceutical resources is encouraged. Designed to meet Board of Registered Nursing requirements for prescriptive privileges. Requires familiarity with disease process. Lecture three hours.

NURS 232. Advanced Physical Assessment Across the Lifespan. 3 Units

Prerequisite(s): NURS 209 and NURS 210.
Term Typically Offered: Fall, Spring

Advanced concepts and skills in health and physical assessment are essential to the clinical decision making and caring process for the nurse in advanced practice and leadership roles. The emphasis is on eliciting an accurate and thorough history considering the client's multiple dimensions, development of advanced physical examination skills and the development of documentation skills to provide a database for continuous improvement of nursing practice.
Note: Availability of a stethoscope is required. Individual practice outside of class is required.

NURS 232A. Advanced Physical Assessment: Infant, Child, Adolescent. 3 Units

Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Seminar designed to present techniques related to the physical assessment, in the school or home setting, of the child, age birth through 18 years. Emphasis is on the common morbidities and mortalities of these age groups including interrelationship of the physical, emotional and socioeconomic causes of health problems and illnesses. Availability of an otoscope and stethoscope required. Individual practice required outside of class. Lecture three hours.

NURS 293. Practicum in Organizational and Systems Leadership. 3 Units

Prerequisite(s): NURS 209, NURS 210, NURS 214, NURS 230, NURS 231, NURS 232, and instructor permission.
Corequisite(s): NURS 213.
Term Typically Offered: Fall, Spring

This course provides supervised field experience to provide the student with an opportunity to apply theoretical concepts from NURS 213 in a clinical practice setting focusing on the care of adult clients. The emphasis of this experience will be to application of graduate core competencies to guide leadership in nursing praxis in the planning, implementation and evaluation of quality healthcare for individuals, families, and groups.
Credit/No Credit

NURS 293D. Practicum in Specialized Nursing Processes: School Nursing. 4 Units
Prerequisite(s): NURS 213C.
Corequisite(s): NURS 213D.
Term Typically Offered: Fall, Spring

Application of a planned sequence of supervised clinical experiences in one or more California public school districts offering nursing services to infants, children and adolescents for the purpose of developing a clinical leadership role in school nursing. Focuses on the three major competencies of school nursing practice: providing health and wellness services, providing direct client care services for school age-children (pre-k through age 22, including students with special health care needs), and professional management of school nursing services.
Credit/No Credit

NURS 294. Practicum in Educational Program Development in Nursing. 3 Units

Prerequisite(s): NURS 214, may be taken concurrently.
Term Typically Offered: Fall, Spring

Opportunity for analysis and synthesis of concepts of management and leadership in an educational setting while practicing the role of a nursing educator.
Credit/No Credit

NURS 295. Field Study. 1 - 6 Units
Term Typically Offered: Fall, Spring

Experiences in an off-campus facility are provided for the continued development of clinical or functional role skills. Each student spends 45 hours per unit. Field study is not designed to be used in lieu of regularly scheduled practicums. Enrollment in NURS 295 requires permission of a faculty member who will serve as sponsor and coordinator of the experience.
Credit/No Credit

NURS 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual research, study, and directed reading in an area not directly covered in the Division's core courses, role preparations or electives. Students pursue a particular course of study on a one-to-one basis with a faculty member. Educational objectives must be specified in advance.
Credit/No Credit

NURS 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy for the Master's degree and must be in the final semester of the program.
Term Typically Offered: Fall, Spring

The Culminating Experience is in the form of a comprehensive examination. The comprehensive examination is an original scholarly paper that reflects an in-depth problem-solving proposal or a business proposal. Students that wish to do a thesis or project as the culminating experience must petition the Division of Nursing Graduate Committee and will be approved on an individual basis.

Nutrition and Food (NUFD)

NUFD 9. Food Safety and Sanitation. 3 Units
Prerequisite(s): NUFD and FACS majors only.
Term Typically Offered: Fall, Spring

Introduction to food safety principles and application, microbiology of food safety, infection control, and safety issues. Examination of laws and regulations related to consumer and food service operations. Preparation for national food service sanitation certification exam.

NUFD 10. Nutrition And Wellness. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Introduction to the basic principles of nutrition and the relationship of the human diet to health. Overview of the nutrition profession, the biological uses of nutrients and tools for dietary planning. Examination of specific issues such as weight loss, sports nutrition, food safety, the diet-disease relationship and global nutrition. Analysis of special nutritional requirements and needs during the life cycle. Evaluation of personal dietary habits using current dietary guidelines and nutritional assessment methods.

NUFD 11. Principles of Food Preparation. 3 Units
Prerequisite(s): FACS Nutrition and Food majors and minors and Dietetics Special majors only.
Term Typically Offered: Fall, Spring

Chemical, physical, sensory, and nutritional properties of food related to processes used in food preparation. Laboratory includes preparation and evaluation of individual food products. Lecture two hours; laboratory three hours.

NUFD 107. Nutrition Education, Communication, and Counseling. 3 Units
Prerequisite(s): FACS 10 and an additional 3 FACS units
Term Typically Offered: Fall, Spring

Nutrition Education, communication and counseling techniques for use by the nutrition/dietetics professional. Introduction and application of various health behavior theories to promote change in diverse target audiences. Development of nutrition care plans, educational materials and activities for individual groups. Understand and apply methods of dietary assessment and motivational interviewing.

NUFD 110. Food Production and Sustainability. 4 Units
Prerequisite(s): FACS 9, FACS 10 and FACS 11
Term Typically Offered: Fall, Spring, Summer

Study and laboratory experience in planning, procuring, production, serving and evaluation of food for individuals, families, commercial, and institutional foodservice operations. Application of menu development techniques such as recipe modification and standardization to various target populations. Examination and application of marketing analysis and promotion. Understanding of current issues and sustainability topics related to food production.

NUFD 112. Current Topics in Nutritional Sciences. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Upper Division Further Studies in Area B5
Term Typically Offered: Summer only

Examination of contemporary and controversial topics in nutrition science and how they relate to nutritional needs of different population groups. Analyzes the research process and evaluation of validity of nutrition research. Lecture, discussion.
Note: Not open for credit to Dietetics/Nutrition and Food majors.

NUFD 113. Nutrition And Metabolism. 3 Units
Prerequisite(s): FACS 10; BIO 10 or BIO 20; and CHEM 1A or CHEM 5 or CHEM 6A
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring, Summer

Study of the structures, types and metabolism of carbohydrates, lipids and proteins. Discussion of the biological roles of vitamins and minerals. Application and integration of metabolic knowledge with health promotion and chronic disease. Lecture, discussion.

NUFD 114. Cultural and Social Aspects of Food. 3 Units
Prerequisite(s): FACS 10; Only FACS majors/minors and Dietetic special majors may enroll in this course
Term Typically Offered: Fall, Spring

Examination of the cultural and social meanings of food, food behaviors and food systems. Emphasis on the regional, ethnic and religious influences on food habits. Study of food production, distribution, and consumption historically and cross-culturally; traditional dishes and nutritional contributions of diets of several cultures.

NUFD 115. Nutrition: Pre-conception Through Childhood. 3 Units
Prerequisite(s): NUFD 113
Term Typically Offered: Fall, Spring

Examination of nutritional requirements, metabolism and issues during stages of the early life cycle, including: pre-conception, pregnancy, lactation, infancy, and early and late childhood. Study of assessment and methods for achieving nutritional needs through dietary selection and promotion of maternal, infant, and child health. Analysis of social, environmental, physical and economic factors affecting nutritional status.

NUFD 116. Food Service Management. 3 Units
Prerequisite(s): FACS 110.
Term Typically Offered: Fall, Spring

Study of financial, facility, human resource management in commercial and noncommercial foodservice operations. Application of accounting principles, evaluation and selection of equipment, layout and design, and principles and practices of human resource management as an entry-level manager.

NUFD 117. Community Nutrition. 3 Units
Prerequisite(s): FACS 107; and either FACS 115 or FACS 119.
Term Typically Offered: Fall, Spring

Study of theory, concepts and philosophy affecting nutrition education and services in the community. Introduction to techniques of interviewing and counseling clients. Emphasis on culturally sensitive approaches to dietary assessment, counseling and community nutrition research. Use of a variety of teaching methods to improve nutrition status of the community. Field study involves practical experience in a community nutrition program. Lecture, discussion two hours; field study three hours.

NUFD 118A. Medical Nutrition Therapy I. 3 Units
Prerequisite(s): FACS 113, FACS 121, and BIO 131.
Term Typically Offered: Fall only

Study of the principles of medical nutrition therapy and the Nutrition Care Process. Use the Nutrition Care Process to make decisions, identify nutrition-related problems and determine and evaluate nutrition interventions with patients/clients with various conditions, including, cardiovascular and gastrointestinal disorders.

NUFD 118B. Medical Nutrition Therapy II. 3 Units
Prerequisite(s): FACS 118A, and CHEM 161 or instructor permission.
Term Typically Offered: Spring only

Continuation of principles, methods, and skills as developed in FACS 118A. Review of the etiology, development and dietary prevention and intervention of diseases influenced by nutrition such as: diabetes mellitus, heptatic and biliary diseases, cancer, renal disease, pulmonary disease, neurological disorders, HIV and AIDS, and inborn errors of metabolism. Lecture, discussion two hours; activity two hours.

NUFD 119. Nutrition: Adolescence Through Older Adulthood. 3 Units
Prerequisite(s): FACS 113
Term Typically Offered: Fall, Spring

Examination of nutritional requirements, metabolism and issues during stages of the life cycle, including: adolescence, adulthood, and old age. Study of assessment and methods for achieving nutritional needs through dietary selection and promotion of adolescent, adult, and elderly adult health. Analysis of social, environmental, physical and economic factors affecting nutritional status.

NUFD 120. Practical Application in Sports Nutrition. 3 Units
Prerequisite(s): FACS 113
Term Typically Offered: Fall, Spring

A survey course in nutrition with an emphasis on the relationship among diet, physical activity, and health; exploration of the changes in the metabolism of carbohydrates, lipids, protein and water; discussion of the function of vitamins and minerals; practical application of evidence-based dietary recommendations for common sports and varying physical intensity. Recommended for FACS majors. Lecture/Discussion. Three units.

NUFD 121. Nutrition Assessment, Methods and Support. 3 Units
Prerequisite(s): FACS 113
Term Typically Offered: Fall, Spring, Summer

Study of health care systems, the nutrition care process including assessment and support, and clinical implications of malnutrition. Topics include nutrition-focused physical examination, anthropometric, biochemical, dietary, body composition, and functional status evaluation and an understanding of advantages and disadvantages of assessment approaches. Application of various assessment methods and problem solving will be achieved through hands on training and clinical case studies in the context of malnutrition, nutrition support, cancer, eating disorders, and obesity.

NUFD 170. Advanced Nutrition and Metabolism. 3 Units
Prerequisite(s): CHEM 161, FACS 113; or instructor permission.
Term Typically Offered: Spring only

Study of the physiologic function of carbohydrates, lipids, protein and micronutrients including integrated metabolism, transport, regulation and relation to inborn errors/chronic disease. Introduction to gene-nutrient interaction.
Cross Listed: BIO 170; only one may be counted for credit.

NUFD 199D. Dietetic Pathways. 1 Unit
Prerequisite(s): Senior standing as Dietetics emphasis.
Term Typically Offered: Fall only

Examination of dietetics career paths, processes and options. Students will learn about the profession of dietetics, including professionalism, the professional organization, pathways, mentoring and the code of ethics.

NUFD 221A. Advanced Clinical Nutrition A. 3 Units
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Fall only

Perform nutrition assessment of patients with complex medical conditions. Integration of pathophysiology into medical nutrition therapy. Development, supervision and evaluation of nutrition care plans. Select, calculate, monitor and evaluate nutritional support regiments for patients. Lecture, composition.

NUFD 221B. Advanced Clinical Nutrition B. 1 Unit
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Spring only

Continuation of principles and skills as developed in FACS 221A with application to other complex disease conditions and integration to multiple diseases. Application of genetics and pathophysiology to complex disease conditions. Demonstration of skills in assignments and presentations. Lecture, composition.

NUFD 222. Advanced Community Nutrition and Nutrition Education. 1 Unit
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Fall only

Management of nutrition care for population groups across the lifespan. Perform outcome assessment/evaluation of community based food and nutrition programs. Nutrition policy development and evaluation based on community needs and resources. Learn advanced nutrition counseling techniques. Lecture, composition.

NUFD 223. Advanced Foodservice Management and Administration. 2 Units
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Fall only

Management of procurement, distribution, and service of food, and integration of financial, human, physical and material resources. Production of food that meets nutrition guidelines, cost parameters, and consumer acceptance; safety and sanitation issues related to food. Analysis of the operations of food service organization. Lecture, written assignments and practical experience.

NUFD 224. Advanced Community Nutrition and Policy. 3 Units
Prerequisite(s): Admission into Dietetic Internship Program or instructor permission.
Term Typically Offered: Spring only

Learn and apply the nutrition care process and to manage nutrition care for population groups. Conduct outcome assessment, planning, implementation, marketing and evaluation of nutrition programs. Apply the research process and critically evaluate nutrition research. Develop an understanding of nutrition policy and resources. Lecture-discussion.

NUFD 280. Teaching Methods in Family and Consumer Sciences/Home Economics. 3 Units
Prerequisite(s): Current enrollment in a teaching credential program or instructor permission.
Term Typically Offered: Summer only

This course is designed to provide students with materials, classroom management strategies and methods necessary to successfully teach Family & Consumer Sciences (FCS)/Home Economics Careers and Technology (HECT) at the secondary level. Teacher candidates will become acquainted with legislation, standards, teaching strategies, resources, research and student leadership programs.

NUFD 295. Field Study. 1 - 7 Units
Prerequisite(s): Enrolled in Graduate Studies in NUFD Dietetic Internship
Term Typically Offered: Fall, Spring

Guided study, observation or work experience in an area in which the graduate student needs advanced and specialized study.
Note: May be repeated for credit

Credit/No Credit

NUFD 299. Special Problems. 1 - 3 Units
Prerequisite(s): Undergraduate major or minor in Family and Consumer Sciences.
Term Typically Offered: Fall, Spring

Any properly qualified student may pursue a problem after approval by his/her advisor and the staff member with whom he/she works.
Credit/No Credit

Operations Management (OPM)

OPM 101. Operations Management. 3 Units
Prerequisite(s): Student must be a Business Major or Business Administration minor to enroll in this course
Corequisite(s): DS 101
Term Typically Offered: Fall, Spring

Introduction to the basic concepts and methods used to analyze and improve performance of operations in manufacturing and service organizations.

Overseas Student Program (REG)

REG 220. Enrolled in online class at a participating CSU Campus through CourseMatch. 1 - 10 Units
Term Typically Offered: Fall, Spring

Enrollment in an online class at a CSU campus through CourseMatch. Any questions or enrollment changes (drop, withdrawal, change of grade basis, etc.) must be done through the CSU campus hosting the class. Details about the class will be recorded on your Home campus record after completion.

Philosophy (PHIL)

PHIL 2. Ethics. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examination of the concepts of morality, obligation, human rights and the good life. Competing theories about the foundations of morality will be investigated.

PHIL 4. Critical Thinking. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Study of the basic skills of good reasoning needed for the intelligent and responsible conduct of life. Topics include: argument structure and identification, validity and strength of arguments, common fallacies of reasoning, use and abuse of language in reasoning, principles of fair play in argumentation.

PHIL 6. Introduction to Philosophy: Knowledge, World and Self. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Representative selection of philosophical problems will be explored in areas such as knowledge, reality, religion, science, politics, art and morals.

PHIL 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

Introduction to the nature and possible meanings of higher education, and the functions and resources of the University. Designed to help students develop and exercise fundamental academic success strategies and to improve their basic learning skills. Students have the opportunity to interact with fellow classmates and the seminar leader to build a community of academic support and personal support.

PHIL 26. History of Philosophy. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to the history of philosophy, emphasizing such themes as the foundations of knowledge, the nature of reality, the basis of a good life and a just society, the existence of God, and the nature of self, and tracing the development of these themes from antiquity to the modern period.

PHIL 27. History of Early Modern Philosophy. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Examines the major developments in Western philosophy after the Middle Ages, with emphasis on the period from Descartes to Kant. Attention will be paid to the general historical and cultural setting within which the philosophical theories developed.

PHIL 56. Research Integrity. 1 Unit
Term Typically Offered: Fall, Spring

Basic regulatory and ethical requirements for doing research. Topics covered include protection of human subjects, data management, authorship, peer review, mentoring, animal experimentation, conflict of interest, and collaborative research.
Credit/No Credit

PHIL 60. Deductive Logic I. 3 Units
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Introduction to deductive logic. Topics include: basic concepts of deductive logic; techniques of formal proof in propositional and predicate logic.

PHIL 61. Inductive Logic I. 3 Units
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Introduction to inductive logic and the problem of decision under uncertainty. Topics include: the nature of inductive rationality, philosophical theories of induction and probability, cognitive biases and common errors in inductive reasoning, and philosophical problems in defining risk, rational agency, and the expected value of an action.

PHIL 100. Ethics and Personal Values. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Moral concerns of everyday life stressing such features of moral character as right and wrong conduct, virtue and vice, the emotions, attitudes, and personal relationships. Emphasis is on analytical and critical discussion of philosophical theories and competing viewpoints.

PHIL 101. Ethics and Social Issues. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring, Summer

Moral controversies that divide society today, such as abortion, the death penalty, affirmative action, sexism, war and peace. Emphasis is on identifying the relevant values and moral principles underlying competing views and subjecting them to rational assessment.

PHIL 102. Professional and Public Service Ethics. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring, Summer

Prepares students planning careers in professional practice or public service to identify, understand, and resolve ethical problems. Includes examinations of (i) ethical theory, rights and duties, virtue ethics, utilitarian ethics, social contract theory, and role morality; (ii) the philosophical underpinnings of professional codes of conduct, regulations, and norms of professional and public service practices; (iii) moral reasoning and argumentation; (iv) the relation between ethical judgement and action; (v) the relation between professional practice, public service, and democratic principles.

PHIL 103. Business and Computer Ethics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Analytical treatment of controversial moral issues which emerge in the business world, e.g., affirmative action, corporate responsibility, the global economy, industry and environmental damage, social effects of advertising, the computer threat to personal privacy, ownership of computer programs. Discussion will focus on basic moral principles and concepts relevant to these issues.

PHIL 104. Bioethics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Ethical dilemmas faced by professionals and patients in the field of medicine, e.g., patient self-determination and informed consent, discrimination in health care, euthanasia, abortion, surrogate motherhood, genetic modification, and rights to health care. Emphasis is on the well-reasoned application of general moral principles to practical medical decisions.

PHIL 105. Science and Human Values. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring

Examination of the values implicit in a scientific culture and the problems that arise as a commitment to the development of scientific knowledge and technology. These problems include: distinguishing good scientific practice from bad; the intrinsic value of scientific knowledge independent of its benefits in application; the proper and improper applications of scientific knowledge.

PHIL 112. History Of Ethics. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Investigation of the main approaches to ethics in Western moral philosophy. Emphasis on Plato, Aristotle, Hume, Kant and Mill.

PHIL 115. Philosophy In Literature. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Spring only – even years

Study of selected works of fiction which focus on philosophically controversial questions, e.g., basic moral dilemmas, the meaning of life, alienation, nihilism, the existence of God.

PHIL 117. Existentialism. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall only

Study of the problem of the existing individual, or inner self -- most especially the problem of choice in the context of radical freedom and finitude. Particular attention will be paid to the philosophical writings of Kierkegaard, Nietzsche, Heidegger and Sartre, through some major literary works of these figures and others (Camus, Dostoevsky) will also be considered.

PHIL 122. Political Philosophy. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

A philosophical examination of the individual, the community, and rights; the conflict between individual rights and the common good; various conceptions of justice, equality, liberty and the public good; and the relationship of politics to ethics, economics, law; war and peace.

PHIL 123. Philosophy and Feminism. 3 Units
Term Typically Offered: Spring only – even years

Study of feminist perspectives on important philosophical questions. Examples of the questions treated are: mind-body dualism; reason and emotion; the fact/value distinction; the nature of the public and private realms; equal rights; and whether knowledge is intrinsically 'gendered.' Different feminist perspectives will be considered and compared with traditional approaches to these questions.

PHIL 125. Philosophy Of Science. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring, Summer

Study of the philosophical problems that arise in the sciences: the nature of scientific reasoning, the limits and styles of explanation, identifying pseudoscience, values in science, unity and diversity of the sciences, and science's impact on our world view.

PHIL 126. The Meanings Of Evolution. 3 Units
Term Typically Offered: Fall, Spring

Study of the philosophical basis of the biological sciences: the power and limits of evolution as a scientific explanation; Darwinism, its refinements, alternatives and critics; the origin and nature of life; the scope of evolution as an explanation, including critical investigations of evolutionary psychology and sociobiology.

PHIL 127. History of Ancient Philosophy. 3 Units
Prerequisite(s): 3 units in Philosophy.
Term Typically Offered: Fall, Spring

Examination of the origins of Western philosophy, with emphasis on the works of the Pre-Socratics, Plato, and Aristotle.

PHIL 128. History of Modern Philosophy. 3 Units
Prerequisite(s): 3 units in Philosophy.
Term Typically Offered: Fall, Spring

Examination of the major developments in Western philosophy after the Middle Ages with emphasis on the period from Descartes to Kant.

PHIL 131. Philosophy Of Religion. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Summer only

Introduction to philosophical theology, the philosophical study of religious assertions, arguments, and beliefs: the existence and nature of God; the rationality of religious belief; the relation of faith to reason; the problem of evil; immortality and resurrection; the possibility of miracles; the meaning of religious language. Includes both traditional and contemporary approaches.

PHIL 136. Philosophy Of Art. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Inquiry into the nature of art, beauty and criticism, with critical consideration of representative theories.

PHIL 145A. Chinese Philosophy. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Humanities (Area C2), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Spring only

Survey of the major philosophical traditions of China and Japan, focusing on concepts of nature, man, society, freedom and knowledge. Special attention will be given to Confucianism, Taoism, Buddhism, and recent philosophical movements. Taught alternate semesters with PHIL 145B.

PHIL 145B. Philosophies Of India. **3 Units**
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Humanities (Area C2)
Term Typically Offered: Fall only

Survey of the major schools of Indian philosophical development. The emphasis will be on the Hindu and Buddhist traditions, with consideration given to competing notions of the self, consciousness, the origin of human suffering, and the possibility of transcendence.
Note: Taught alternate semesters with PHIL 145A.

PHIL 152. Recent Ethical Theory. **3 Units**
Term Typically Offered: Spring only

Major topics in ethical theory with attention to their contemporary formulation, including such topics as utilitarianism vs. rights-based theories and the dispute over the objectivity of ethics.

PHIL 153. Philosophy Of Mind. **3 Units**
Prerequisite(s): 3 units in philosophy or instructor permission.
Term Typically Offered: Spring only

Rival theories of the nature of the mind and mental activity, including dualism, materialism, functionalism. Difficulties in achieving a theoretical understanding of familiar psychological concepts such as belief, sensation, emotion, intention.

PHIL 154. Philosophy Of Language. **3 Units**
Term Typically Offered: Fall only

Study of philosophical issues concerning language: theories of the nature of linguistic meaning, in particular those involving the concepts of sense, reference, truth conditions, intention, convention, speech act, and force. Topics include the relation between meaning and reference to objects, and between meaning and mental processes. Emphasis on contemporary views, including views on the promise of a theory of language to shed light on fundamental philosophical problems in metaphysics and the philosophy of mind.

PHIL 155. Philosophy Of Law. **3 Units**
Term Typically Offered: Spring only

Theories of the nature of law, e.g., natural law, legal positivism, legal realism. Selected controversies in contemporary law will also be studied, such as the justification of punishment, the legislation of morality, judicial activism vs. judicial restraint.

PHIL 160. Deductive Logic II. **3 Units**
Prerequisite(s): CSC 28 or PHIL 60 or instructor permission.
Term Typically Offered: Spring only

Further study of deductive logic. Topics include: principles of inference for quantified predicate logic; connectives; quantifiers; relations; sets; modality; properties of formal logical systems, e.g. consistency and completeness; and interpretations of deductive systems in mathematics, science, and ordinary language.

PHIL 161. Inductive Logic II. **3 Units**
Prerequisite(s): Phil 61 Inductive Logic I or instructor permission.
Term Typically Offered: Fall, Spring

Further study of inductive logic. Topics include: the nature of uncertainty, probability and inductive rationality, Bayes' Theorem, the nature of utility, expected value theory, decisions under uncertainty, game theory, strict and weak dominance, decision-theoretic paradoxes, pure and mixed strategy Nash equilibria.

PHIL 176. Twentieth Century Anglo-American Philosophy. **3 Units**
Term Typically Offered: Spring only

Rise of the analytic tradition in contemporary Anglo-American philosophy represents a turn toward common sense, science, language, logic and rigor. Readings will cover the philosophical movements of common sense, logical atomism, logical positivism, ordinary language philosophy and more recent analytical philosophy.

PHIL 180. Knowledge and Understanding. **3 Units**
Prerequisite(s): 6 units in philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Examines the concept of knowledge. Representative topics include: the role of sense perception and memory, the importance of certainty, the justification of belief, philosophical skepticism, the concept of truth and the nature of philosophical inquiry. Emphasis is on contemporary formulations.

PHIL 181. Metaphysics. **3 Units**
Prerequisite(s): 6 units in philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Examines arguments concerning the nature of reality. Representative topics include: substance, space, time, God, free will, determinism, identity, universals. Emphasis is on contemporary formulations.

PHIL 189. Senior Seminar in Philosophy. **1 Unit**
Prerequisite(s): Philosophy majors (any concentration), 21 upper-division units in Philosophy, and graduating semester; or instructor permission.
Corequisite(s): Philosophy major (any concentration) and graduating semester; or instructor permission.
Term Typically Offered: Fall, Spring

A required capstone experience in the philosophy major. The course involves: completion of a senior essay under direction of a faculty member; preparation for knowledge and skills examination; submission of written critiques for three public events in philosophy; completion of departmental assessment questionnaire.

PHIL 190. Selected Philosophers. **3 Units**
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

An examination of the works of one or more important philosophers in different philosophical areas such as ethics, political philosophy, metaphysics, logic and epistemology.
Note: This course can be repeated for credit once if the second iteration focuses on a different philosopher than the first

PHIL 192B. Topics in Bioethics. 3 Units
Prerequisite(s): 6 units of Philosophy or instructor permission
Term Typically Offered: Fall, Spring

Advanced in-depth study of an ethical dilemma faced by professionals and patients in the field of medicine, such as patient self-determination and informed consent, discrimination in health care, euthanasia, abortion, surrogate motherhood, genetic modification, or rights of health care.

PHIL 192D. Space and Time. 3 Units
Prerequisite(s): 6 units in philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to significant philosophical issues involving space and time. An investigation into the current state of these issues.
Note: No background or work in mathematics or physics is required. Cross-listed: HRS 205; only one may be counted for credit.

PHIL 192E. Topics in Epistemology. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Topics include: the nature of inquiry, knowledge, explanation, understanding, rationality, judgment, and decision.
Note: This course can be repeated for credit once if the second iteration focuses on a different specific topic within Epistemology.

PHIL 192F. Topics in Ethics. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Topics include: animal rights, abortion, euthanasia and assisted suicide, poverty, race, gender, same-sex marriage, war and humanitarian intervention, environmental ethics, ethics of science or technology, and other advanced topics in bioethics.
Note: This course can be repeated once for credit if the second iteration focuses on a different specific topic within Ethics

PHIL 192L. Topics in Philosophy Language. 3 Units
Prerequisite(s): 6 units in philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Advanced topics in the philosophy of language. Topics may include: sense and reference, meaning and force, intentions vs. conventions, conditions for sameness of sense, conditions for successful reference, propositional content, indexical and demonstrative reference, and the semantics of propositional attitude and perceptual reports, linguistic pragmatics.

PHIL 192M. Topics in Philosophy of Mind. 3 Units
Prerequisite(s): 6 units in philosophy or instructor permission.
Topics in Philosophy of Mind. Topics may include: Artificial Intelligence; Qualia; functionalism; philosophy of neuroscience; property dualism; eliminative materialism; or specific theories of consciousness. Emphasis is on contemporary formulations.

PHIL 192O. Topics in Contemporary Metaphysics. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission
Term Typically Offered: Fall, Spring

Contemporary topics in metaphysics. Topics may include: Ontology; realism and anti-realism; universals; individuals; substance; identity through time and change; kinds and degrees of necessity; physicalism; moral realism; realism regarding social entities. Emphasis is on contemporary formulations.

PHIL 192P. Topics in Social and Political Philosophy. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Topics include: specific theories such as anarchism, libertarianism, and contractualism; feminist theories; critical race theory; philosophy of education; and other concepts such as authority, justice, rights, equality, and freedom.
Note: This course can be repeated for credit once if the second iteration focuses on a different specific topic within Social and Political Philosophy.

PHIL 192R. Topics in Philosophy of Religion. 3 Units
Prerequisite(s): 6 units of Philosophy or instructor permission
Topics may include: The problem of evil, atheism, modal arguments for God's existence, design arguments for God's existence, reformed epistemology, recent work in natural theology, divine hiddenness, skeptical theism, or Molinism. Emphasis is on contemporary formulations.

PHIL 192S. Topics in Philosophy of Science. 3 Units
Prerequisite(s): 6 units of Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Topics include: Issues in the epistemology and ontology of science; special problems in the philosophy of mathematics, physics, chemistry, cognitive science, and biology; naturalistic and non naturalistic approaches to understanding scientific inquiry.
Note: This course can be repeated for credit once if the second iteration focuses on a different specific topic within the Philosophy of Science

PHIL 192T. Topics in Philosophy of Social Science. 3 Units
Prerequisite(s): 6 units in Philosophy or instructor permission.
Term Typically Offered: Fall, Spring

Topics include: the ontology of social kinds, social construction, individualism vs. structuralism, philosophy of economics, explanations of social injustice, critical theory, methodology of social sciences, and categorization and measurement in the social sciences.
Note: This course can be repeated for credit once if the second iteration focuses on a different specific topic within the Philosophy of Social Science.

PHIL 195. Philosophy Internship. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised work experience in an approved office or organization where significant philosophical issues are raised. The student must write regular reports on these issues. Supervision is provided by the faculty instructor and a managing official in the work situation. Open to majors only.
Credit/No Credit

PHIL 196. Experimental Offerings in Philosophy. 3 Units
Term Typically Offered: Fall, Spring

Experimental offerings will be scheduled as needed.

PHIL 197. Honors Thesis. 1 Unit
Prerequisite(s): Admission into Philosophy Department Honors Concentration.
Term Typically Offered: Fall, Spring

Capstone seminar for Honors Program students in Philosophy major. Student will propose, research, write, and present an honors thesis; student will also provide comments and criticism of other honors theses.

PHIL 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Special projects calling for independent philosophical investigation under the supervision of an individual faculty member.
Note: Requires prior approval of the faculty member under whom work is to be conducted.

Credit/No Credit

PHIL 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Special projects calling for independent philosophical investigation under the supervision of an individual faculty member.
Note: Requires graduate status and prior approval of the faculty member under whom work is to be conducted.

Credit/No Credit

Photography (PHOT)

PHOT 11. Digital Imaging. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Acquaints students with digital photographic equipment and techniques. Lecture and demonstrations will cover hardware (cameras, computers, scanners and printers) and software used to create digital images. Ethical and legal issue will be discussed. Portfolio of digital photographs created in the computer lab required.

PHOT 12. Digital Photography II. 3 Units
Prerequisite(s): PHOT 11. Fee course.
Term Typically Offered: Fall, Spring

An introduction to composited photographic images. Course provides a broad primer to digital editing and compositing techniques. Lectures and discussions provide artistic and ethical context for contemporary photographic practice.
Fee course.

PHOT 15. Survey of Photography. 3 Units
Term Typically Offered: Fall, Spring

PHOT 20. The Photographic Self. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Focuses on photography's influence on notions of self from its inception in 1938 to the present. Enhances students' understanding of how and why photography became the powerful and ubiquitous tool that shaped a new form of visual self-expression.

PHOT 40. Basic Techniques of Photography. 3 Units
Term Typically Offered: Spring only

Introduction to basic camera and darkroom techniques. Concepts of visual organization, design and using light effectively are emphasized. Lecture two hours; laboratory three hours.

PHOT 101. Photography, Inception to Mid-Century. 3 Units
Term Typically Offered: Fall only

Introduces students to the history of photography, from inception to Mid-20th Century. Practices of photographers and artists, working with photographic technologies, will be discussed. The course examines photographic vision and the impact of the medium through lectures and readings by art historians and photographers.
Cross-listed: ART 101.

PHOT 102. Photography, a Social History. 3 Units
Term Typically Offered: Spring only

Examines photographic vision and the impact of the medium on society through readings by both photographers and photographic critics. Establishes the importance of photography as a contemporary medium, explores the development of photographic vision and the relationship between photographs and cultural events. Lecture/discussion.

PHOT 111. Intermediate Digital Imaging. 3 Units
Prerequisite(s): PHOT 11 and PHOT 40; declared Photography majors only
Corequisite(s): PHOT 141 and PHOT 101
Term Typically Offered: Fall only

Covers intermediate to advanced concepts and techniques in digital photographic imaging, providing students with the ability to explore both new and previously mastered software and hardware applications. Emphasis is on using digital techniques to create and print effective and imaginative color photographs. Lectures and demonstrations cover capture, manipulation, color management and pre-press techniques for a variety of output devices.

PHOT 141. Intermediate Black and White Photography. 3 Units
Prerequisite(s): PHOT 11 and PHOT 40; declared Photography majors only
Corequisite(s): PHOT 111 and PHOT 101
Term Typically Offered: Fall only

This course focuses on the development of the photographer's vision through the Zone System, black and white materials and the 4X5 view camera. The Zone System is used to control negative exposure and contrast, enhance print pre-visualization and to create quality gelatin-silver prints. Though this class concentrates on advancing student's technical proficiency a significant portion of the class is dedicated to aesthetic concerns in photography.

PHOT 148. Artificial Light, Studio. 3 Units
Prerequisite(s): PHOT 111 and PHOT 141
Corequisite(s): PHOT 102 and PHOT 155
Term Typically Offered: Spring only

A commercially oriented course with assignments covering such topics as food, fashion and products photographed with artificial light in the studio. Business, legal and ethical practices in commercial and editorial photography are discussed as they apply to work done in a studio setting. Students are expected to become visually and technically competent with artificial light sources used in a studio setting.

PHOT 149. Artificial Light, Location. 3 Units
Prerequisite(s): PHOT 148 and PHOT 155
Corequisite(s): PHOT 165
Term Typically Offered: Fall only

A location lighting course covering the use of artificial light and non-studio photography. Assignments cover such topics as: interior and exterior architecture, food and fashion shot on location. Techniques for combining the use of hot lights, electronic flash and ambient light are discussed. Students will use a body of work demonstrating their visual and technical understanding of artificial light sources for editorial and commercial application.

PHOT 155. Advanced Photography Techniques. 3 Units
Prerequisite(s): PHOT 111 and PHOT 141
Corequisite(s): PHOT 102 and PHOT 148
Term Typically Offered: Spring only

Explores advanced techniques in the production of photographic imagery, with special emphasis on the hybridization of photographic processes. Lectures cover advanced chemical and digital photographic procedures in camera use and printing techniques. Students must demonstrate a high level of visual awareness and technical competency, and must be willing to take risks in the creative application of photographic processes.

PHOT 161. Photography in the Field. 3 Units
Prerequisite(s): PHOT 141 or instructor permission.
Term Typically Offered: Fall, Spring

The class visits specific sites followed by a group critique of the resulting photographic work. The course objective is to examine how one situation can be interpreted by many varied sensibilities, broadening the artist's visual vocabulary. Students are required to create visually unified portfolio that demonstrates a sense of place.
Cross-listed: ART 161.

PHOT 162. Alternative Photographic Processes. 3 Units
Prerequisite(s): PHOT 141 or instructor permission.
Term Typically Offered: Fall, Spring

Studio course exploring alternative photographic processes that may include: printing-out paper, new cyanotype, argyrotype, and platinum-palladium. Slide discussions, individual and class critiques.
Cross-listed: ART 162.

PHOT 163. Pinhole Photography. 3 Units
Prerequisite(s): PHOT 40 or equivalent.
Term Typically Offered: Fall, Spring

Intermediate course investigating the theory, history, and practice of pinhole photography. Use of student-made pinhole cameras of varying focal lengths using black and white and color materials. Emphasis on creative approach in both camera making and image formation, supported by intermediate-level photographic technique. Individual final portfolios and group exhibition of cameras and prints at conclusion of course.
Cross-listed: ART 163.

PHOT 165. Issues in Contemporary Photographic Practice. 5 Units
Prerequisite(s): PHOT 148 and PHOT 155 Fee course.
Term Typically Offered: Fall only

Covers advanced problems in the process of creating photographic work. Emphasis is on the ways which content/form relationships within a body of work are informed by the artist's conceptual and material engagement, as well as the way in which process and context shape meaning in photographic work. Course centers on readings in contemporary theory and aesthetics, discussion, the production of photographic work, and critique.
Note: Type III Fee, $45

Fee course.

PHOT 175. Studio Topics in Photography. 3 Units
Prerequisite(s): PHOT 149 and PHOT 165
Corequisite(s): PHOT 180
Term Typically Offered: Spring only

This class is a broad investigation of photography's potential. Each semester the class concentrates on a photographic strategy including but not limited to: documentary, journalism, fabrication, image and text, and the archive. Students are introduced to photography's varied application, new developments and conversations in the medium. Readings and discussions will enlist a range of theoretical and critical approaches. Course center on readings, discussion, production of photographic work and critique.

PHOT 180. Senior Portfolio. 5 Units
Prerequisite(s): PHOT 165 Fee course
Term Typically Offered: Spring only

A senior level course aimed at furthering student's knowledge of postgraduate opportunities. The required final portfolio of images will reflect the student's photographic education, experience and area of expertise. The content and format of this portfolio will depend on the student's future academic or professional goals.
Note: Type III Fee $45

PHOT 195. Internship In Photography. 3 Units
Prerequisite(s): A minimum of two upper division photography courses.
Term Typically Offered: Fall, Spring

Directed observation and work experience with public agencies, organizations, publications, design or photography studios. Fieldwork is offered to give students experience, personal contacts and orientation in the area of professional photography. Supervision is provided by faculty and the cooperating community employer. Students are required to maintain a detailed record of activities and report regularly to the supervising faculty member. To receive credit the selected activity must be approved prior to adding the course. Ten hours weekly.
Credit/No Credit

PHOT 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed readings in photography. Open to students who are working at an advanced level of photography and competent to carry on individual work.
Credit/No Credit

PHOT 299. Special Problems. 1 - 3 Units
Prerequisite(s): Requires instructor approval.
Term Typically Offered: Fall, Spring

Individual projects or directed readings in photography for graduate level students. Open to students who are working at an advanced level of photography and competent to carry on individual work.
Credit/No Credit

Physical Science (PHSC)

PHSC 75. Introduction to Machine Shop Practices. 2 Units
Term Typically Offered: Fall, Spring

Safe machine operation techniques on common fabrication equipment. Study of materials and methods used to build testing and measuring equipment. Reading and calibrating measuring devices, gauging and optical gauging. Study of measuring conventions and understanding of precision. Interpretation of drawings, tolerances and tactics for maintaining tolerances. Jigs and mounts for dynamic data collection equipment. Prototype manufacturing. Students completing this course qualify to perform work in the shop with minimum supervision. Lecture one hour; Laboratory three hours.

PHSC 107. History of the Physical Sciences. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

Study of the development of the major physical laws presently used in describing our physical world. Some considerations of the influences of these developments on other areas of knowledge and on society in general.
Cross Listed: HIST 107; only one may be counted for credit.

PHSC 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to assume individual work on the approval of the instructor. Up to 4 units may be taken for grade.

Credit/No Credit

Physical Therapy (PT)

PT 280. Graduate PT Seminar II. 1 Unit
Term Typically Offered: Fall, Spring

Presented after the final clinical field experience, will review students' experiences in the clinic and promote reflection on the professional practice of physical therapy. Serves as a review of a variety of physical therapy subjects in preparation for the licensure examination. Students will use computer interactive software to assist with preparation for this standardized national test format.
Note: Open to Physical Therapy majors only.

PT 295. Physical Therapy Clinical Experience. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised clinical affiliation equivalent to two full-time weeks up to six full-time weeks in a physical therapy setting under the direct supervision of a licensed Physical Therapist.
Note: Placement is arranged through the Program. Permission of Clinical Coordinator required.

Credit/No Credit

PT 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading designed for students capable of independent study.
Note: Admission requires written approval of instructor and program director.

Credit/No Credit

PT 510. Audiology Progress Exam. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 620, CSAD 620C, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 630, CSAD 630C, CSAD 631, CSAD 632.
Term Typically Offered: Summer only

Formative written and practical exam based on coursework and clinical experiences from the first year of the Doctor of Audiology program.
Credit/No Credit

PT 600. Pathokinesiology. 5 Units
Prerequisite(s): Open to Physical Therapy majors only.
Corequisite(s): BIO 633, PT 602, PT 608, PT 630.
Term Typically Offered: Fall, Spring

This course will address functional anatomy, surface anatomy with palpation, arthrology, biomechanics, pathologies related to the musculoskeletal and nervous systems. Both normal motion and pathological motion will be addressed. Students will gain competence in surface anatomy and palpation skills.

PT 602. Evidence Informed Practice I. 3 Units
Prerequisite(s): Open to Physical Therapy majors only.
Corequisite(s): BIO 633, PT 600, PT 608, PT 630.
Term Typically Offered: Fall, Spring

This course is designed to teach students to critically read and interpret the physical therapy scientific literature. Topics will include research design and statistical testing procedures commonly used in physical therapy. Students will review and critique current physical therapy articles utilizing the research designs and statistical testing procedures being studied.

PT 604. Principles of Human Movement. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 606, PT 614, PT 618, PT 620, PT 622.
Term Typically Offered: Fall, Spring

This course focuses on developing an understanding of components of human movement under normal and pathological conditions. Content includes the American Physical Therapy Association Model of Practice, models of disablement, contemporary concepts of motor learning and motor control, task analysis, and theories of the recovery of function. The course includes a review of the foundations of neuroanatomy for normal movement.
Note: Open to Physical Therapy majors only.

PT 606. Therapeutic Measurements and Techniques. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 604, PT 614, PT 618, PT 620, PT 622.
Term Typically Offered: Fall, Spring

In this course students acquire general physical therapy examination, evaluation and patient handling skills. Students will practice and demonstrate techniques under faculty supervision in the following areas: Measurement of vital signs, manual strength testing, testing of joint range of motion and muscle length, patient positioning, transfer techniques, gait training, use of wheelchairs, and use of assistive devices.
Note: Open to Physical Therapy majors only.

PT 608. PT/Patient/Professional Interactions. 2 Units
Corequisite(s): BIO 633, PT 600, PT 602, PT 630.
Term Typically Offered: Fall, Spring

The course prepares physical therapy students to learn about themselves, others, and the environment in which they will interact with others as professionals. It addresses professionalism, self-awareness, communication, cultural competence, ethics, documentation, and end-of-life care. This course assists students with transitioning into their professional roles.
Note: Graduate Writing Intensive (GWI) course; open to Physical Therapy majors only.

PT 614. Neuroscience for Physical Therapy. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 604, PT 606, PT 618, PT 620, PT 622.
Term Typically Offered: Fall, Spring

This course is designed to prepare clinicians to better understand the neurological control of human behavior. A systems approach is used to examine the major anatomical and physiological principles and mechanisms by which the nervous system controls behavior under normal and pathological conditions. Because the course is being taught to health care professionals, clinical correlates of each system will also be presented. One class session is dedicated to presentation of human gross anatomical specimens.

PT 618. Foundations for Patient Management. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 604, PT 606, PT 614, PT 618, PT 620, PT 622.
Term Typically Offered: Fall, Spring

This course introduces the disablement model that forms the conceptual framework for understanding and organizing the practice of physical therapy. The model delineates the possible consequences of disease and injury for the person and society. The course goes on to identify how the model informs the five elements of patient management: Examination, Evaluation, Diagnosis, Prognosis (including Plan of Care), and Intervention. The course will further expand on professionalism introduced in PT 608.
Note: Open to Physical Therapy majors only.

PT 620. Physical Therapy Interventions I. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630.
Corequisite(s): PT 604, PT 606, PT 614, PT 618, PT 622.
Term Typically Offered: Fall, Spring

In this course students learn, practice and demonstrate the clinical application of basic exercise regimes for the prevention of limitations, improvement of functional abilities and the treatment of disorders associated with the neuromuscular, skeletal and cardiopulmonary systems. In addition, the application of motor control principles to exercise and aquatic therapy are addressed.
Note: Open to Physical Therapy majors only.

PT 622. Evidence Informed Practice II. 3 Units
Corequisite(s): PT 604, PT 606, PT 614, PT 618, PT 620.
Term Typically Offered: Fall, Spring

Designed to build upon the data analysis and research design topics covered in PT 602. Emphasis will be placed on evidence based methodologies currently used in the physical therapy literature evaluating the effectiveness of interventions, the validity of outcome measures, the validity of diagnostic measures, and the identification of prognostic measures.
Note: Open to Physical Therapy majors only. Prerquisite

PT 624. Adult Neuromuscular Patient Management I. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 636, PT 638.
Corequisite(s): PT 625, PT 626, PT 640, PT 646.
Term Typically Offered: Fall, Spring

This course is first in a three course sequence focused on acquisition and integration of knowledge and skills needed to manage patients with movement dysfunction caused by neurological damage (Refered to in the Guide as Neuromuscular Practice Patterns). Focus is on development and implementation of plans of care based on sound evaluative, treatment and problem-solving skills.
Note: Open to Physical Therapy majors only.

PT 625. Musculoskeletal Patient Management I. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 636, PT 638.
Corequisite(s): PT 624, PT 626, PT 640, PT 646.
Term Typically Offered: Fall, Spring

This course, the first of three, focuses on acquisition, integration, knowledge and skills involved in developing and implementing a patient management plan for the patient with musculoskeletal dysfunction based on sound evaluative findings. Lectures address etiology, signs and symptoms, medical, surgical, and physical therapy management of musculoskeletal dysfunction. Labs address skill development for performing evaluation and interventions safely and effectively. The course addresses the management of lower extremity dysfunction.
Note: Open to Physical Therapy majors only.

PT 626. Clinical Agents. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 636, PT 638.
Corequisite(s): PT 624, PT 625, PT 640, PT 646.
Term Typically Offered: Fall, Spring

This course presents theory, demonstration and laboratory practice in physical therapy modalities and techniques including thermal agents, hydrotherapy, ultrasound (US), ultraviolet, diathermy and massage. Theory, demonstration and practice using electrical modalities are included. Case studies will be utilized for decision making in the proper application of modalities based on current research evidence, knowledge of indications, contradictions and physiologic effects.
Note: Open to Physical Therapy majors only.

PT 627. Physical Therapy Educator. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 646.
Corequisite(s): PT 644, PT 645, PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This course presents the role of the physical therapist as health educator. The course introduces teaching and learning theory, learning domains, the identification of learning styles, and teaching strategies to address different learner needs across the life-span. Students will practice instructional formats and prepare and analyze patient education materials. Students will practice applications of appropriate technology for the design of professional presentations. Self-assessment, reflection and peer-assessment are required course components.
Note: Open to Physical Therapy majors only.

PT 630. Pathophysiology. 3 Units
Prerequisite(s): Admission to the Doctor of Physical Therapy Program.
Corequisite(s): BIO 633, PT 600, PT 602, PT 608.
Term Typically Offered: Fall, Spring

This course is designed to promote the understanding and application of fundamental disease processes in clinical settings. General concepts of disease, including etiology, pathogenesis, morphology, and clinical significance are discussed within the context of cases. General pathophysiology concepts include: cell injury, necrosis, inflammation, wound healing and neoplasia. These concepts are applied in a systems-orientated approach to disease processes affecting musculoskeletal, cardiopulmonary, renal, nervous, gastrointestinal, immune, hematological and endocrine systems.

PT 632. Pharmacology for Physical Therapists. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630.
Corequisite(s): PT 634, PT 636, PT 638.
Term Typically Offered: Fall, Spring

This course provides a study of pharmacological agents and their effects on the musculoskeletal, neuromuscular, cardiopulmonary and integumentary systems. Particular emphasis is placed on recognition of adverse reactions and side effects of various drugs as they affect patients receiving physical therapy.
Note: Open to Physical Therapy Majors only.

PT 634. Diagnostic Imaging for Physical Therapy. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630.
Corequisite(s): PT 632, PT 636, PT 638.
Term Typically Offered: Fall, Spring

This course provides an overview of imaging techniques commonly used in radiology and their implications to the role of physical therapists in professional practice. The role of imaging techniques in the diagnostic and intervention-planning processes for physical therapists is presented.
Note: Open to Physical Therapy Majors only.

PT 636. Geriatrics/Gerontology for Physical Therapists. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630.
Corequisite(s): PT 632, PT 634, PT 638.
Term Typically Offered: Fall, Spring

This course explores normal and pathological aging and the implications of both on Physical therapist practice. It will explore the ramifications of aging components of patient management interventions including major practice patterns: musculoskeletal, neuromuscular, cardiopulmonary, and integumentry. It will also explore how aging may impact patient teaching.
Note: Open to Physical Therapy majors only.

PT 638. Health, Wellness and Ergonomics in Physical Therapy. 2 Units
Prerequisite(s): BIO 633, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630.
Corequisite(s): PT 632, PT 634, PT 636.
Term Typically Offered: Fall, Spring

This course presents basic philosophical, historical, psychological and scientific foundations in wellness; reviews cultural forces/theories that affect individuals and society; applies concepts of healthy lifestyle education to reach an understanding of the importance of wellness and to establish an effective and potentially fulfilling lifestyle. Ergonomic concepts as they apply to patient and self (to maintain and prevent future injuries, especially repetitive) will be covered as one preventative strategy.
Note: Open to Physical Therapy majors only.

PT 640. Physical Therapy Interventions II. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 636 and PT 638.
Corequisite(s): PT 624, PT 625, PT 626, PT 640, PT 646, PT 660A.
Term Typically Offered: Fall, Spring

This course is a continuation of Physical Therapy Interventions I. This course focuses on the presentation of selected topics in acute care and cardiopulmonary Physical Therapy. Students will learn how to perform appropriate and comprehensive examinations, interpret the examination findings as well as design and implement a plan of care based upon the next available evidence.
Note: Open to Physical Therapy majors only.

PT 644. Adult Neuromuscular Patient Management II. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 645, PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This course is the second in a three course sequence focused on acquisition and integration of knowledge and skills needed to manage patients with movement dysfunctions caused by neurological damage (Referred to in the Guide as Neuromuscular Practice Patterns). Focus is on development and implementation of plans of care based on sound evaluative findings and evidence of efficacy. Case presentation, video demonstrations, and patient contact is used to develop evaluation, treatment and problem solving skills.
Note: Open to Physical Therapy majors only.

PT 645. Musculoskeletal Patient Management II. 4 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This course, the second of three, focuses on acquisition and integration of knowledge and skills involved in developing and implementing management plans for patients with musculoskeletal dysfunction from sound evaluative findings. Lectures address etiology, signs and symptoms, medical, surgical, and physical therapy management of musculoskeletal dysfunction. Labs address safe and effective evaluation and interventions, specifically joint mobilizations. Joint mobilizations will cover one technique per joint restriction. This course addresses upper extremity and spine dysfunction.
Note: Open to Physical Therapy majors only.

PT 646. Acute Care and Cardiopulmonary Physical Therapy. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 636 and PT 638.
Corequisite(s): PT 624, PT 625, PT 626, PT 640.
Term Typically Offered: Fall, Spring

This course focuses on the presentation of selected topics in acute care and cardiopulmonary Physical Therapy. The course includes a discussion of common pathologies in the cardiopulmonary system and those associated with an acute care setting, as well as common medical tests, laboratory tests, surgical procedures and pharmacological interventions used with this patient population.
Note: Open to Physical Therapy majors only.

PT 648. Health Care Delivery in Physical Therapy I. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This course provides a historical overview of health care delivery and financing in the U.S., up to and including the current effects on the delivery of physical therapy care. The continuum of care concept, an overview of national economic policy and the mechanisms for financing physical therapy services will be presented. Administrative topics including human resources, financial management, planning, marketing, patient's rights, and medical records management will be covered.
Note: Open to Physical Therapy majors only.

PT 660A. Graduate Physical Therapy Seminar 1A: Research. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 630, PT 632, PT 634, PT 636 and PT 638
Corequisite(s): PT 624, PT 625, PT 626, PT 640, PT 646
Term Typically Offered: Fall, Spring

This seminar is the first designed for advanced study and mentoring in physical therapy research. Students will be participating in faculty-directed research projects. Students' activities will vary depending on the faculty member and research project being conducted. Students are required to perform at least 50 hours of activities toward the directed research project to receive credit for this course. This course satisfies one of two requirements for selected seminars in the curriculum.

PT 660B. Graduate Physical Therapy Seminar IB: Research. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645 PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This seminar is the second designed for advanced study and mentoring in physical therapy research. Students will be participating in faculty-directed research projects. Students' activities will vary depending on the faculty member and research project being conducted. Students are required to perform at least fifty hours of activities toward the directed research project to receive credit for this course. This course satisfies one of two requirements for selected seminars in the DPT curriculum.
Note: Open to Physical Therapy majors only.

PT 660C. Graduate Physical Therapy Seminar IC: Research. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.
Corequisite(s): PT 663, PT 664, PT 665, PT 668, PT 680, PT 690.
Term Typically Offered: Fall, Spring

This seminar is the third designed for advanced study and mentoring in physical therapy research. Students will be participating in faculty directed research projects. Students' activities will vary depending on the faculty member and research project being conducted. Students are required to perform at least 50 hours of activities toward the directed research project to receive credit for this course. This course satisfies one of two requirements for selected in the DPT curriculum.
Note: Open to Physical Therapy majors only.

PT 660D. Graduate Physical Therapy Seminar ID: Electrotherapeutics. 2 Units

Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626 ,PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 662, PT 669.
Term Typically Offered: Fall, Spring

This is a seminar laboratory experience focusing on electrophysiology and electrodiagnostics in physical therapy. The lab will allow students to research and apply evidence-based practice and gain advanced hands-on practice in performing and interpreting the results of electromyographic and nerve conduction velocity testing with clients. This course satisfies one of two requirements for selected seminars in the curriculum.
Note: Open to Physical Therapy majors only.

PT 660E. Graduate Physical Therapy Seminar IE: NeuroPediatric Laboratory. 2 Units

Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.
Corequisite(s): PT 663, PT 664, PT 665, PT 668, PT 680, PT 690.
Term Typically Offered: Fall, Spring

This seminar laboratory experience focuses on pediatric patient management. The lab will allow students to research and apply evidence-based practice and gain advanced hands-on practice in pediatric physical therapy. This course is best suited for students planning a career in pediatric patient management. The course satisfies one of two requirements for selected seminars in the curriculum.
Note: Open to Physical Therapy majors only.

PT 660F. Graduate Physical Therapy Seminar IF: Adult Neuromuscular Laboratory. 2 Units

Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 646, PT 644, PT 645, PT 648, PT 662, PT 669.
Corequisite(s): PT 663, PT 664, PT 665, PT 668, PT 680, PT 690.
Term Typically Offered: Fall, Spring

This seminar laboratory experience focuses on adult neuromuscular patient management. The laboratory will allow students to research and apply evidence-based practice and gain advanced hands-on practice in adult neurorehabilitation. Students will also serve as mentors for the Mock Clinic portion of PT 624. This course satisfies one of two requirements for selected seminars in the curriculum.
Note: Open to Physical Therapy majors only.

PT 660G. Certified Strength and Conditioning Specialist (CSCS). 2 Units

Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.
Corequisite(s): PT 663, PT 664, PT 665, PT 668
Term Typically Offered: Fall, Spring

This seminar is designed to prepare students to take the Certified Strength and Conditioning Specialist Examination. The seminar covers the topics of excercise physiology, bioenergetics, nutritional factors in performance, resistance, speed, and agility training, endocrine responses to resistance training, exercise testing, and other training considerations. This course satisfies one of two requirements for selected seminars in the curriculum.
Note: Open to Physical Therapy majors only.

PT 660H. Graduate Physical Therapy Seminar H: Cardiovascular Wellness Clinic Experience. 1 Unit

Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669.
This elective provides mentored clinical experience for students in the area of cardiovascular well ness. The student will design and implement an evaluation of a volunteer client in a cardiovascular well ness program, develop an individualized plan of care, and monitor the impact of the intervention. A written comprehensive case report will analyze the impact of the interventions on the cardiovascular well ness of the client.
Note: Open to Physical Therapy majors only.

PT 660K. Graduate Physical Therapy Seminar 1K Adv. Biomechanics II. 2 Units

Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630, PT 604, PT 606, PT 614, PT 618, PT 620, PT 622, PT 632, PT 634, PT 636, PT 638, PT 624, PT 625, PT 626, PT 640, PT 696J
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 669, PT 662
This elective is designed to prepare students to run a gait analysis clime in the biomechanics laboratory. The course is one unit of lecture and one unit of lab, and covers the topics of assessment of balance, lower extremity strength assessment, special tests, and running analysis from both the research 'gold standard' as well as the clinically feasible perspective with a particular focus on running.

PT 662. Differential Diagnosis in Physical Therapy. 3 Units

Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 669.
Term Typically Offered: Fall, Spring

This course focuses on learning and practicing screening techniques for physical therapists to detect medical or other problems for which a referral to a medical doctor or another health care provider is indicated. Students will learn to screen patients for dysfunction in a variety of physiological systems by taking medical history, medication history, performing a risk factor assessment and manual examination, and screening various physiological systems.
Note: Open to Physical Therapy majors only.

PT 663. Integumentary Patient Management. 2 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 662, 669 and 695A.
Corequisite(s): PT 664, PT 665, PT 668, PT 680, PT 690.
Term Typically Offered: Fall, Spring

This course focuses on the management of patients with integumentary impairments and their related sequelae. Topics include post-surgical management of patients with amputations, prosthetics, and management of the patient with a wound or burn injury. Lecture, case presesentation, video demonstrations, and laboratory activities will be used to develop patient management skills.
Note: Open to Physical Therapy majors only.

PT 664. Neuropediatric Patient Management. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669 and PT 695A.
Corequisite(s): PT 663, PT 665, PT, 668, PT 680, PT 690.
Term Typically Offered: Fall, Spring

This course is the third part of a three course series focusing on the acquisition and integration of knowledge and skills involved in developing and implementing a treatment plan based on sound evaluative findings for the patient with neurological dysfunction. In this course, the focus is on the pediatric patient with neurological dysfunction. Case presentation, video demonstrations, and actual patient contact will be used to develop evaluation, treatment, and problem-solving skills.
Note: Open to Physical Therapy Majors only.

PT 665. Musculoskeletal Patient Management III. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 669, PT 695A. Corequiste: PT 663, PT 664, PT 668, PT 690.
Term Typically Offered: Fall, Spring

This course builds on the foundational intervention techniques established for management of the patient with musculoskeletal dysfunction in PT 625 and PT 645. It will address additional manual therapy skills and students will apply their developing skills under faculty supervision to patients referred from the Student Health Center. Students will be responsible for patient management of a case load including accurate documentation and submission of patient records to the Student Health Center.
Note: Open to Physical Therapy Majors only.

PT 668. Health Care Delivery in Physical Therapy II. 2 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 662, 669 and 695A.
Corequisite(s): PT 663, PT 664, PT 665, PT 680, PT 690.
Term Typically Offered: Fall, Spring

In this course, students will have professional practice behavior expectations and requirements previously introduced in other courses reinforced through the review of the American Physical Therapy Association documents: the Standard of Practice for Physical Therapy and the Code of Ethics, as well as the State of California's Physical Therapy Practice Act. Additionally, students will hear from other health care professionals on their expectations of the physical therapist's role on a health care team.
Note: Open to Physical Therapy majors only.

PT 669. Psychosocial Issues in Physical Therapy. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640 and PT 646.
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 662.
Term Typically Offered: Fall, Spring

This course examines psychological and social impact of and reactions to illness and physical disability. Explores elements of the psycho-social dynamics related to disability with a focus on adjustments required of the disabled and the provider. The course addresses social, cultural, personal, and familial factors which impact comprehensive rehabilitation in the clinical setting. Attention will be placed on interpersonal relationships between patients, family, health care providers, and society.
Note: Open to Physical Therapy majors only.

PT 680. Graduate Physical Therapy Seminar II. 1 Unit
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 662 and 669.
Corequisite(s): PT 663, PT 664, PT 665, PT 668, PT 690.
Term Typically Offered: Fall, Spring

This course, presented just prior to the final clinical internships, will review student's experiences in the curriculum and promote reflection on the professional practice of physical therapy. The course will review professional core values and expectations for clinical internships. The course will also review portfolio requirements to determine students' readiness to proceed into final internships. In addition, students will be expected to develop five year personal professional development plans.
Note: Open to Physical Therapy majors only.

PT 689. Doctoral Project Proposal. 1 Unit
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620, PT 622, PT 624, PT 625, PT 626, PT 630, PT 632, PT 634, PT 636, PT 638, PT 640, and PT 646
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 662, and PT 669
The Doctoral Project Proposal must demonstrate students' understandings of the application of current evidence-based practice in a multicultural and complex health care environment. The proposal must be of sufficient rigor to ensure students' demonstrations of critical and independent thinking and abilities to interpret the research literature and apply to current physical therapist practice. The proposal includes a written document and oral defense. Open to Physical Therapy Majors only.
Credit/No Credit

PT 690. Doctoral Project/Culminating Experience. 3 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 604, PT 606, PT 608, PT 614, PT 618, PT 620,PT 622, PT 624, PT 625, PT 626, PT 627, PT 630, PT 632, PT 634, PT636, PT 638, PT 640, PT 644, PT 645, PT 646, PT 648, PT 662, PT 663, PT 664, PT665, PT 668, PT 669, PT 680, and PT 695A
Term Typically Offered: Fall, Spring

The Doctoral Project/Culminating Experience may include evidence-based practice projects, clinical research projects, or case reports consistent with the Chancellor's Office Executive Order. Culminating events must demonstrate students' understandings of the application of current evidence-based practice in a multicultural and complex health care environment. They must be of sufficient rigor to ensure students' demonstrations of critical and independent thinking and abilities to interpret the research literature and apply to current physical therapist practice.

PT 695A. Clinical Experience I. 6 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638,640, 644, 645, 646, 648, 669 and 689.
Term Typically Offered: Fall, Spring, Summer

The first full-time clinical experience in the Doctor of Physical Therapy (DPT) program curriculum totals 12 weeks of clinical education in an assigned clinical setting under the direct supervision of a licensed physical therapist. Students improve and refine evaluation and treatment abilities developed during their first two academic years and integrate knowledge and skills in a selected variety of clinical settings.
Note: Open to Physical Therapy majors only who have successfully completed the first five semester of the DPT curriculum.

Credit/No Credit

PT 695B. Clinical Experience II. 6 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 669, 689, 663, 664, 665, 668, 690 and 695A.
Term Typically Offered: Fall, Spring, Summer

The second full-time clinical education experience in the Doctor of Physical therapy (DPT) program curriculum totals 12 weeks of clinical education in an assigned clinical setting under the direct supervision of a licensed physical therapist. Students improve and refine patient management skills and abilities developed during their first seven semesters.
Note: Open to Physical Therapy majors only who have successfully completed the first seven semesters of the DPT curriculum.

Credit/No Credit

PT 695C. Clinical Experience III. 6 Units
Prerequisite(s): BIO 633, PT 600, 602, 604, 606, 608, 614, 618, 620, 622, 624, 625, 626, 627, 630, 632, 634, 636, 638, 640, 644, 645, 646, 648, 669, 689, 663, 664, 665, 668, 690, 695A, and 695B.
Term Typically Offered: Fall, Spring, Summer

The third full-time clinical education experience in the Doctor of Physical therapy (DPT) program curriculum totals 12 weeks of clinical education in an assigned clinical setting under the direct supervision of a licensed physical therapist. Students improve and refine patient management skills and abilities developed during their first eight semesters.
Notes: Open to Physical Therapy majors only who have successfully completed the first eight semesters of the DPT curriculum.

Credit/No Credit

PT 696J. Graduate Physical Therapy Seminar IJ Adv. Biomechanics I. 2 Units
Prerequisite(s): BIO 633, PT 600, PT 602, PT 608, PT 630, PT 604, PT 606, PT 614, PT 618, PT 620, PT 622, PT 632, PT 634, PT 636, PT 638, PT 624, PT 625, PT 626, PT 640, and PT 646
Corequisite(s): PT 627, PT 644, PT 645, PT 648, PT 669, and PT 662
This elective is designed to prepare students to run a gait analysis clinic in the biomechanics laboratory. The course is one unit of lecture and one unit of lab, and covers the topics of assessment of balance, lower extremity strength assessment, special tests, and running analysis from both the research 'gold standard' as well as the clinically feasible perspective with a particular focus on running.
Note: Fall semester only

Physics (PHYS)

PHYS 1. Physical Reasoning and Calculation. 2 Units
Term Typically Offered: Fall, Spring

Introduction to the analytical skills needed for the study of Physics. The focus is to prepare students to take PHYS 11A, however, PHYS 1 is also suitable as preparation for PHYS 5A. Emphasis is on reasoning and problem-solving, including conceptualization, visualization, and interpretation of written descriptions of physical situations, and on the connection of physical laws to the mathematical techniques used in their solution.

PHYS 2. Topics in Elementary Physics. 4 Units
Prerequisite(s): A recent one year course in high school algebra and one year of plane geometry or a college course in algebra (MATH 9).
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

One semester introductory physics course including a laboratory. Covers the fundamental concepts of physics with an emphasis on everyday life situations and applications. The range of material includes mechanics, waves, electricity and optics. One hour lecture, two hour discussion, and a three hour laboratory session.

PHYS 5A. General Physics: Mechanics, Heat, Sound. 4 Units
Prerequisite(s): Recently completed three years of high school algebra and geometry; and a college course in algebra and trigonometry (MATH 9 recommended) for those having an inadequate mathematics background.
General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

PHYS 5A-B sequence is a two-semester course in introductory physics in which fundamental concepts are emphasized including some physiological applications. Lecture two hours; discussion one hour; laboratory three hours.

PHYS 5B. General Physics: Light, Electricity and Magnetism, Modern Physics. 4 Units
Prerequisite(s): PHYS 5A or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Lecture two hours; discussion one hour; laboratory three hours.

PHYS 10. Physics In Our World. 3 Units
General Education Area/Graduation Requirement: Physical Science (B1)
Term Typically Offered: Fall, Spring

Introductory course designed for non-science students completing general education requirements. Students will be introduced to basic concepts in Physics through the study of astronomy, atomic nature of matter, electromagnetic waves, energy, sound and earthquake waves, current electricity, magnetism, and nuclear processes. Development of reasoning and quantitative skills and applying them to scientific and technological topics of current importance will be emphasized.

PHYS 10L. Physics in Our World Laboratory. 1 Unit
Prerequisite(s): PHYS 10; may be taken concurrently.
Term Typically Offered: Fall, Spring

Laboratory course complements PHYS 10 and satisfies the general education science lab requirement. Emphasis is placed on the nature of scientific observation and measurement and their relationship to general physical concepts. Students will be given a concrete, hands-on sense of observing and interpreting data from a variety of experimental environments.

PHYS 11A. General Physics: Mechanics. 4 Units
Prerequisite(s): MATH 30, MATH 31; or equivalent certificated high school courses. MATH 31 may be taken concurrently.
General Education Area/Graduation Requirement: Laboratory (B3), Physical Science (B1)
Term Typically Offered: Fall, Spring, Summer

PHYS 11 A, B, and C is a three semester course in introductory physics requiring elementary calculus. This course satisfies the lower division physics requirement for a major in physics, chemistry, geology, or engineering. PHYS 11A covers the basics of classical mechanics, including kinematics, Newton's laws, conservation laws and rotational dynamics. Lecture two hours; discussion one hour; laboratory three hours.

PHYS 11B. General Physics: Heat, Light, Sound, Modern Physics. 4 Units
Prerequisite(s): PHYS 11C.
Term Typically Offered: Fall, Spring

PHYS 11 A, B, and C is a three semester course in introductory physics requiring elementary calculus. This course satisfies the lower division physics requirement for a major in physics, chemistry, geology, or engineering. PHYS 11B covers the basics of thermodynamics, light propagation, sound, and an introduction to modern physics. Lecture two hours; discussion one hour; laboratory three hours.

PHYS 11C. General Physics: Electricity and Magnetism. 4 Units
Prerequisite(s): MATH 31, PHYS 11A.
Term Typically Offered: Fall, Spring, Summer

PHYS 11 A, B, and C is a three semester course in introductory physics requiring elementary calculus. This course satisfies the lower division physics requirement for a major in physics, chemistry, geology, or engineering. PHYS 11C covers the basics of electricity and magnetism. Lecture two hours; discussion one hour; laboratory three hours.

PHYS 30. Science and Pseudoscience. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Examination of the methodology of science. Comparison of legitimate investigations with others that do not meet high scientific standards, including both science poorly done and nonsense posing as science. Examples will be drawn primarily from the physical sciences. Analyzes will require study of basic skills of reasoning, types of logical argument, structure and validity of arguments, common reasoning fallacies, critical evaluation of evidence, and understanding of the scientific thinking process.

PHYS 99. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to assume individual work on the approval of the instructor. For students with lower division status. Up to 4 units may be taken for grade.

Credit/No Credit

PHYS 105. Mathematical Methods in Physics. 3 Units
Prerequisite(s): MATH 32; PHYS 11A, PHYS 11B, PHYS 11C or PHYS 5A, PHYS 5B.
Term Typically Offered: Spring only

Linear algebra and linear vector spaces, linear transformations and eigenvectors, differential and integral vector calculus, with applications to physical problems.

PHYS 106. Introduction to Modern Physics. 3 Units
Prerequisite(s): MATH 31; PHYS 11A, PHYS 11B, PHYS 11C or PHYS 5A, PHYS 5B.
Term Typically Offered: Fall, Spring

Basic concepts of special relativity and quantum theory of matter. Phenomenological study of atomic and molecular energy states and spectra. Elements of solid-state and nuclear physics.

PHYS 107. Conceptual Physics and Scientific Inquiry. 4 Units
Prerequisite(s): BIO 7, CHEM 106, GEOL 8, MATH 17.
Corequisite(s): CHEM 106
Term Typically Offered: Fall, Spring

Concepts include matter, waves and energy, force and motion, electricity and magnetism, and scientific inquiry. Emphasizes hands on cooperative learning engaging students in scientific inquiry by posing testable scientific questions, conducting experiments, and analyzing and presenting findings to their peers. Appropriate for Liberal Studies and Blended Multiple Subject Credential students. Weekly activity and discussion sessions.

PHYS 110. Classical Mechanics. 3 Units
Prerequisite(s): MATH 45, PHYS 11C, PHYS 105.
Term Typically Offered: Spring only

Fundamental principles of statics and dynamics, including Newton's equations and conservation laws, damped and forced oscillations, central force motion, accelerated coordinate systems, coupled oscillations, normal modes, Lagrangian and Hamiltonian methods, introduction to nonlinear systems and chaos theory.

PHYS 115. Electronics and Instrumentation. 4 Units
Prerequisite(s): PHYS 11C or PHYS 5B with instructor permission.
Term Typically Offered: Fall only

Linear and non-linear circuits, operational amplifiers, transducers, basics of digital circuitry, and an introduction to computerized data acquisition. Lecture two hours; laboratory six hours.

PHYS 116. Advanced Electronics and Instrumentation. 3 Units
Prerequisite(s): PHYS 115.
Term Typically Offered: Spring only – even years

Noise reduction techniques, signal recovery, frequency analysis, computerized instrument control, and instrument development. Lecture one hour; laboratory six hours.

PHYS 124. Thermodynamics and Statistical Mechanics. 3 Units
Prerequisite(s): MATH 45, PHYS 11A, PHYS 11B, PHYS 11C.
Term Typically Offered: Spring only

Basic concepts and laws of thermodynamics and thermal properties of matter; kinetic theory of gases; use of distribution functions and ensembles in statistical mechanics; connection of probability and entropy; quantum statistics; applications to various systems.

PHYS 130. Acoustics. 3 Units
Prerequisite(s): MATH 45, PHYS 11A, PHYS 11B, PHYS 11C.
Term Typically Offered: Fall, Spring

Theoretical and experimental study of sound sources, sound waves and sound measurement. Basic properties of waves in continuous media; spectral analysis of vibrations; use of acoustic impedance and circuit analogies; applications to environmental noise analysis, room acoustics, and loudspeaker and microphone design and use; experience with acoustic instrumentation. Lecture two hours; laboratory three hours.

PHYS 135. Electricity And Magnetism. 3 Units
Prerequisite(s): MATH 45, PHYS 11C, PHYS 105.
Term Typically Offered: Fall, Spring

Development of electromagnetic theory from basic experimental laws; electrostatics, electric currents, magnetostatics, electric and magnetic properties of matter, induction, Maxwell's equations, conservation laws, introduction to electromagnetic waves.

PHYS 136. Electrodynamics of Waves, Radiation,and Materials. 3 Units
Prerequisite(s): PHYS 135.
Term Typically Offered: Fall only

Electromagnetic waves, wave propagation in material media, reflection and refraction, polarization, cavities and waveguides, optical fibers, simple radiating systems, radiation from an accelerated charge and special relativity. Introduction to plasma physics and electromagnetic properties of superconductors.

PHYS 142. Applied Solid State Physics. 3 Units
Prerequisite(s): MATH 45, PHYS 106.
Term Typically Offered: Fall, Spring

Elementary treatment of crystal structure and lattice and electron dynamics. Physics of semiconductor junctions, diodes, transistors and MOSFETS, solar cells, lasers, electro-optic and acousto-optic devices. Introduction to basic physical properties such as electrical conduction of selected amorphous solids and their applications. Laboratory experience.

PHYS 145. Optics. 3 Units
Prerequisite(s): MATH 45, PHYS 11A, PHYS 11B, PHYS 11C.
Term Typically Offered: Spring only – even years

Theoretical and experimental treatment of wave optics; interference, diffraction, absorption, scattering, dispersion, polarization. Selected topics from contemporary optics: Fourier optics, coherence theory, lasers, holography. Lecture two hours; laboratory three hours.

PHYS 150. Quantum Mechanics. 3 Units
Prerequisite(s): MATH 45, PHYS 106, PHYS 110.
Term Typically Offered: Fall, Spring

Foundations of wave mechanics, including wave packets, superposition, and the uncertainty principle. The Schroedinger equation and its relation to operators and eigenstates. Symmetric systems and conserved quantities. Introduction to matrix mechanics, spin, scattering, and perturbation theory.

PHYS 151. Advanced Modern Physics. 3 Units
Prerequisite(s): PHYS 150.
Term Typically Offered: Fall, Spring

Structure of matter including basic elements of atomics, molecular, solid state, nuclear and particle physics. Topics will also include photon and electron gases, lasers, superconductivity, Bose-Einstein condensation and superfluidity.

PHYS 156. Classical and Statistical Mechanics. 3 Units
Prerequisite(s): PHYS 110, PHYS 124.
Term Typically Offered: Fall only

Review of classical mechanics, Lagrangian and Hamiltonian formulations, rigid body motion, small vibrations and normal modes, nonlinear dynamics and chaos. Review of the laws of thermodynamics, principles of classical statistical mechanics, ensemble formulations and applications, principles of quantum statistical mechanics, ideal quantum gases, applications to Fermi-Dirac and Bose-Einstein systems.

PHYS 162. Scientific Computing: Basic Methods. 3 Units
Prerequisite(s): MATH 26A or MATH 30 and PHYS 5A, or MATH 30 and PHYS 11A, or MATH 105A concurrently.
Term Typically Offered: Fall, Spring

Basic methods and skills of applying computers to the solution of scientific problems. Numerical calculation methods, numbers and data, algebraic equations, rate processes, iterative techniques, approximation methods, statistical analysis and data fitting, relaxation methods, and use of software and other programming resources on the web. Practical experience emphasized throughout.

PHYS 163. Scientific Computing: Modeling, Simulation, and Visualization. 3 Units
Prerequisite(s): PHYS 162.
Term Typically Offered: Spring only

Application of computer modeling, simulation, and visualization to the solution of scientific problems. Projects drawn from various scientific disciplines will be used to develop the necessary skills, including a capstone project. Examples include projectile motion with air drag, time development of a biological population, chemical reactions with several reactants, and random walk and Monte Carlo methods. Practical experience emphasized throughout.

PHYS 172. Biological Physics. 3 Units
Prerequisite(s): MATH 26A or MATH 30. PHYS 5A, PHYS 5B, PHYS 11A, PHYS 11B, or PHYS 11C. BIO 2 or BIO 10, or instructor permission.
Term Typically Offered: Fall only

Investigation of subcellular and cellular biological systems using the fundamentals of physics. Topics will include a quantitative treatment of: the role of forces and energy in biology; thermodynamics of living systems; biopolymer, cytoskeletal and cellular mechanics; the physics of molecular motors and intracellular transport; applications of physical tools to study biological systems. Focus is on the interplay between physics and biology, and on how physical properties determine the biological function and behavior of living systems.
Note: PHYS 11B or PHYS 5B may be taken concurrently with instructors consent.

PHYS 175. Advanced Physics Laboratory. 2 Units
Prerequisite(s): 12 units of upper division physics, including PHYS 106 and either PHYS 115 or PHYS 145 and a satisfaction of the Advanced Writing requirement.
Term Typically Offered: Fall, Spring

Advanced experiments chosen from several of the major areas of physics, performed usually on an individual basis. Laboratory six hours.

PHYS 181. Modern Physics for Everyone. 3 Units
Prerequisite(s): Completion of GE Area B1 and B4.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
A conceptual course in the topics of modern physics including Quantum Mechanics, Special Relativity, and other contemporary topics for a general audience. This course meets General Education Area B5 (Further Studies in Physical Science, Life Forms, and Quantitative Reasoning) and satisfies the upper-division Area B requirement.

PHYS 182. Physics of Sports. 3 Units
Prerequisite(s): Completion of GE Area B1 and B4.
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall, Spring

A conceptual course in the application of the laws of physics in the context of sport. Focusing mainly on classical physics, we will cover topics such as force, energy, momentum, collisions, pressure, and fluids to explain what we see on the court, field, pool, and road. This course meets General Education Area B5 (Further Studies in Physical Science, Life Forms, and Quantitative Reasoning) and satisfies the upper-division Area 8 requirement.

PHYS 186. Musical Acoustics: Science and Sound. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall, Spring

Physical principles of vibration and wave motion, with illustrations involving musical instruments and concert hall acoustics; principles of electronic synthesis, recording, and reproduction of sound; operation of the human ear and brain in receiving and analyzing sound; relation of the harmonic series to sound quality, harmony and scales; proper roles for science in explaining music as an artistic activity.
Note: No technical background required; course cannot be used to meet Physics BS program requirements. It is recommended that student have already completed their B1 and B4 requirement prior to enrollment. Some experience with music is also helpful.

PHYS 187. Seeing the Light. 3 Units
Prerequisite(s): Completion of GE Area B1 and B4.
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall only

An extensive study of light, mostly in the context of applications. Topics include basics of light and natural phenomena, optics, color, light and energy (solar power), and holography; as well as more advanced topics such as wave/particle model of light, diffraction and polarization.
The course will also cover optical instrumentation such as cameras, microscopes, telescopes, displays, and photoreceptors.

PHYS 190. Physics Seminar. 1 - 2 Units
Term Typically Offered: Fall, Spring

Special lecture series on announced topics by local and visiting speakers, emphasizing current research developments, with related reading assignments.
Note: May be taken for credit in sequential semesters for a maximum of two units total.

Credit/No Credit

PHYS 191. Senior Project. 1 - 2 Units
Prerequisite(s): Department chair permission.
Term Typically Offered: Fall, Spring

Research Project under faculty supervision. Project may consist of laboratory or theoretical research project, instrumentation/demonstration development, or literature research project. Projects require written and oral reports.
Note: May be taken for credit in sequential semesters for a maximum of four units total. Grade assigned upon completion of the project.

PHYS 194. Physics Related Work Experience. 6 - 12 Units
Prerequisite(s): Upper-division status and Department Chair permission.
Term Typically Offered: Fall, Spring

Supervised employment in a physics or astronomy related company or agency. Placement is arranged through the department and the Cooperative Education Program office. Requires completion of a three-to-six month work assignment and a written report.
Note: PHYS 194 may not be used to meet major requirements in Physics; May be taken for credit in sequential semesters

Credit/No Credit

PHYS 195. Teaching Internship. 1 - 2 Units
Prerequisite(s): Completion of all math and physics lower division courses for the B.A. in Physics. Approval from the Teacher Preparation Concentration Coordinator.
Term Typically Offered: Fall, Spring

Supervised teaching internship for high school physics class, or for one of the following courses: PHYS 2, 5A-B, 10, 11A-C, 107, or ASTR4. The students will meet weekly with the faculty teaching this class, and with their supervisor or mentor to help prepare and teach the class.
Note: May be taken for credit in sequential semesters for a maximum of six units total.

PHYS 197. Laboratory Teaching Assistant. 1 - 2 Units
Prerequisite(s): Completion of all physics and math lower division courses required for the B.A. in Physics. Completion of the same course in which the student will take this class with a grade higher than B and/or consent from the Teacher Preparation Concentration program coordinator.
Term Typically Offered: Fall only

Student will be a supervised laboratory teaching assistant for one of the following courses: PHYS 2, 5A-B, 10, 11A-C, 107, or ASTR 6. The student will meet weekly with the faculty teaching this class, and with their supervisor or mentor to help prepare and teach the laboratory.
Note: May be taken for credit in sequential semesters for a maximum of six units total.

PHYS 198. Co-Curricular Activities. 1 - 3 Units
Term Typically Offered: Spring only

Students may provide special tutoring to students taking physics courses, participate in community oriented projects, assist in activity sessions for teacher training courses, or engage in activities related to the subject matter and concerns of the Physics and Astronomy Department. Up to 4 units may be taken.
Credit/No Credit

PHYS 199. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to assume individual work on the approval of the instructor. Up to 4 units may be taken for grade.
Credit/No Credit

Political Science (POLS)

POLS 1. Essentials Of Government. 3 Units
General Education Area/Graduation Requirement: U.S. Constitution + California State & Local Govt, GE AREA D
Term Typically Offered: Fall, Spring, Summer

Examines the U.S. Constitution, the U.S. system of governments and the ideas and values on which they are based. Fulfills state code requirements for U.S. Constitution and California State and Local Government. Students who believe they have a good fundamental knowledge of the institutions of American Government are encouraged to consider a designated upper division course to fulfill the state requirement.

POLS 1H. Honors Government. 3 Units
General Education Area/Graduation Requirement: U.S. Constitution + California State & Local Govt, GE AREA D
Term Typically Offered: Fall, Spring

Explores some of the most influential works of politics and political writing in American history, and challenges contemporary analysis of political institutions and processes. Examines the structure of the Constitution, issues of federalism, the growth of civil rights, and the processes of government, with a comparative element. Explores the unique characteristics of California state politics.

POLS 10. The Meaning of Government: An Introduction to Political Ideas. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Examination of the ideas of various authors about governing and being governed. Topics include: the scope and limits of freedom, the causes and characteristics of the state, the content of politics, the nature of authority, the problems of power and the duty to obey.

POLS 35. World Politics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Basic introduction to global politics focusing on a broad range of issues and problems relating to conflict and cooperation among nations, and on similarities and differences among nations' governmental institutions, structures and processes.

POLS 96. California Constitution & Government. 1 Unit
Prerequisite(s): Instructor approval required.
Examines the California state constitution, the structure and role played by both the state government and local governments in California. Students who pass the course will petition the Dean of Undergraduate Studies for credit in meeting the California Government portion of the American Institution requirement.
Note: Experimental course.

Credit/No Credit

POLS 100. Introduction to Research Methods in Political Science. 3 Units
Term Typically Offered: Fall, Spring

Examines the foundations of scientific research methodology in political and social science. Designed to introduce students to the basic conceptual, observational and analytical methods of empirical research in political science and related social sciences.

POLS 110. Political Thought I. 3 Units
Term Typically Offered: Fall, Spring

History of political theory, covering some important thinkers and topics during the Ancient, Medieval and Early Modern periods.

POLS 111. Political Thought II. 3 Units
Term Typically Offered: Fall, Spring

History of political theory, covering some important thinkers and topics from the Early Modern period to the early 20th century.

POLS 112. Current Political Thought. 3 Units
Term Typically Offered: Fall, Spring

Current issues in political thought, with emphasis upon developments in the political philosophies of democracy, fascism, communism, conservatism, liberalism. Ideas are analyzed with reference to assumptions on which they are based and their relevance for political institutions and problems.

POLS 113. American Political Thought. 3 Units
General Education Area/Graduation Requirement: GE AREA D, U.S. Constitution + California State & Local Govt
Term Typically Offered: Fall, Spring

Assessment of ideas that are central to the development of an American political tradition, as those ideas influence government at the federal, state and local levels. Meets the state requirements in U.S. Constitution and California State and Local Government.

POLS 115. Democratic Theory. 3 Units
Term Typically Offered: Spring only

Introduction to basic questions of democracy. Draws on classical and contemporary writings to explore what democracy means and various forms of democratic government, politics, and culture: direct, representative, liberal, republican, pluralist, elitist. Specific topics may include: definitions of democracy, justifications for democracy, arguments for increasing or limiting democratic participation, tasks of political representatives, democratization of social institutions, and the relationship between globalization and democracy.

POLS 117. Black Political Thought. 3 Units
Term Typically Offered: Spring only

Systematically and analytically introduces the predominant political trends and concepts presently entertained and harbored in the Black Community. A necessary adjunct to this dialogue is the racist theme in American society since on balance this is the matrix out of which the political alternatives and concepts grew.
Cross Listed: ETHN 117; only one may be counted for credit.

POLS 118. Just War, Natural Right, and the Law of Nations. 3 Units
Term Typically Offered: Fall only

Examines fundamental conceptual questions about morality, law, and international relations through great works of political theory. Topics will cover natural right, sovereignty, just war, imperialism, national security, and international obligations. Authors read will include Thucydides, Aristotle, Aquinas, Machiavelli, Grotius, Montesquieu, Kant, Hegel, Marx, Mill and Nietzsche.

POLS 119A. Socialism Marxism-Communism. 3 Units
Term Typically Offered: Fall only

Analyzes the basic writings and ideas of Socialist and Marxist writers and the implications of their ideas.

POLS 119B. Greek Political Thought. 3 Units
Term Typically Offered: Fall only

Study of the political thought of Greece from Homer to Demosthenes, including Plato, Thucydides, Sophocles, and other Greek thinkers. Topics include the birth of democracy, the sciences and philosophy, Athens' rise to prominence, its defense of freedom against Persia, and its own development of an empire. Examination of Greek thoughts about justice, authority, freedom, equality, and culture. The events that shaped ideas and ideas that shaped events, as well as our understanding of the modern world, will be covered.

POLS 119D. Shaping of the Modern World. 3 Units
Term Typically Offered: Spring only

This course examines major problems that have shaped the modern world, the historical and intellectual roots of the modern world, and debates over the meaning of modernity. Considers how both advocates and critics of modernity have understood the relation of history, philosophy, politics, nature, religion, economics, and other key concepts. Specific topics may include: the development of modern science, technological progress, democratic institutions, capitalism, colonialism, secularization, religious tolerance, and individual freedom.

POLS 120A. Constitutional Law. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring

Basic junior level course in Public Law. A study of leading decisions of the U.S. Supreme Court and other materials pertaining to the power of Congress, the President and the Judiciary; relations between states and nation; and civil rights. Considers such topics as the separation of powers, judicial review, Congress, and the President.

POLS 120B. Constitutional Rights and Liberties. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring

Basic junior level course in Public Law. A study of rights and immunities under the U.S. Constitution: examines leading decisions of the U.S. Supreme Court and other materials pertaining to freedom of expression, freedom of association, equality and due process of law.

POLS 121. American Legal History. 3 Units
Term Typically Offered: Fall only

Examines the interaction of law, society, and politics in America from the colonial period to the present with special emphasis on law as an arena of social and cultural conflict. Major topics include the development of the common law in early America; the law of slavery and its impact on constitutional development; the role of the law in defining controversies over race and gender; legal thought and education; and the role of the Supreme Court in 20th Century America.
Cross Listed: HIST 180; only one may be counted for credit.

POLS 122. The Law and Bureaucracy. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Not offered

Examines constitutional and statutory limits of bureaucratic power in the American political system.

POLS 123. Elements Of Law. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only

Current legal thought in the U.S. with special emphasis on the relationship of law to history, economics, anthropology, and government; the nature of law; the role of legislators, lawyers, and judges in making the legal system.

POLS 126. Politics and Lawyers. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring

Examines and analyzes the pervasiveness of lawyers and their activities in political realities; what do lawyers do; politics of prosecution and defense; politics within the profession; professional mobility; politics of the judiciary; lawyers in government.

POLS 127. Elements of International Law. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Spring only

While tracing the evolution of historical antecedents, centers upon modern literature in the field. The scope is broad and the problems vary, but among the areas to be studied are: 1) Is international law really law?; 2) historical foundations; 3) international legal institutions and structures; 4) supra-legal international orders, structures, and institutions and their meaning to international law; 5) world order and world law; and 6) an international 'Bill of Rights.

POLS 128. Environment and the Law. 3 Units
Term Typically Offered: Spring only

Introduction to environmental law, including: the evolution of environmental legislation, environmental issues in the court system, environmental regulation and administrative law and environmental torts. Emphasis is on understanding legal process and the special challenges environmental problems present to the legal system.
Cross Listed: ENVS 128; only one may be counted for credit.

POLS 130. International Politics. 3 Units
Term Typically Offered: Fall, Spring

Basic junior-level course in International Relations. Current international tensions; the motivating forces influencing world politics; and the role of diplomacy and international organizations in resolving conflicts.

POLS 131. International Organization. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Spring only

Examines human efforts to create supranational organizations to promote world peace and prosperity. The focus will be on social, political, and economic activities and problems which have developed and proliferated since the end of the second World War.

POLS 132. War and Peace in the Nuclear Age. 3 Units
Term Typically Offered: Not offered

Covers the discovery of atomic fission, the development of the atomic bomb and the evolution of U.S. nuclear weapons and strategy from 1945 to the present. It examines political, strategic, bureaucratic, economic and cultural forces that have shaped U.S. nuclear policy since Hiroshima. The problem of international security in the Nuclear Age is also addressed.

POLS 133. American Defense and National Security. 3 Units
Term Typically Offered: Spring only

Analyzes U.S. security policy, looking at the structure and ideologies of the security system, the requirements of national defense, and the roles played by conventional and nuclear weapons in protecting and promoting American security.

POLS 134. War, Peace and the Mass Media. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring, Summer

Concerned with the relationship of mass media to war and the possibilities for peace, with emphasis on recent concepts of political communication.
Cross Listed: JOUR 134; only one may be counted for credit.

POLS 135. American Foreign Policy. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only

Institutions, practices and development of American foreign policy; the interaction of domestic and foreign factors on the formulating of American foreign policy since World War II.

POLS 136. International Political Economy. 3 Units
Term Typically Offered: Fall, Spring

Analyzes the interaction between politics and economics at the international level. Covers basic theoretical approaches; historical evolution of international economy; creation and role of international financial institutions; development issues; globalization and integration.

POLS 137. Nationalism. 3 Units
Prerequisite(s): GOVT 35 or GOVT 130 or instructor permission.
Term Typically Offered: Fall, Spring

Focuses on major theories of nationalism. Examines the literature dealing with theories explaining the emergence of nationalism and its political consequences; develops a comprehensive set of empirical indicators of nationalism, together with several working hypotheses regarding political manifestations of nationalism; provides the analytic frame for understanding nationalism; and applies theories to explain political behaviors of nations.

POLS 138. UN Simulation. 3 Units
Prerequisite(s): Junior status or above, a minimum 3.0 GPA in the major, GOVT 130 and/or GOVT 140, or instructor permission.
Term Typically Offered: Fall, Spring

Seminar experience for upper level Government and International Relations concentration majors. Students will prepare for and participate in a national intercollegiate model UN conference.
Note: Course repeatable with instructor permission.

POLS 139A. Globalization. 3 Units
Prerequisite(s): An upper division course in the field and/or instructor permission.
Term Typically Offered: Fall only – odd years

Explores the nature of, and issues in, globalization. It does so in five parts. Part I examines alternative conceptions of globalization. Part II identifies and examines the primary forms of economic globalization. Part III considers globalization's effects on the territorial state, the welfare state, organized violence, culture, immigration, gender, and the environment. Part IV investigates the politics of the anti-globalization backlash. Part V concludes with an assessment of the shape and future of contemporary globalization.

POLS 139B. International Politics and International Development. 3 Units
Prerequisite(s): GOVT 130 or Instructor Permission
Term Typically Offered: Fall only – even years

This course examines the origins and evolution of the theory and practice of international development; considers the meaning of international development; examines theoretical models and approaches to understanding the conditions, effects, and processes of international development. It explores the history and current state of theories and approaches to international development and addresses contemporary and essential issues in the field.

POLS 139G. Intelligence and Espionage. 3 Units
Term Typically Offered: Fall only

Involves students in the study of the field of intelligence, as it relates to national security, foreign policy, law and ethics. Comparative analysis of the practice and experience of the U.S., the former Soviet Union and other nations will be emphasized.

POLS 139S. Topics in Human Security. 3 Units
Term Typically Offered: Spring only

This course introduces students to the broad field of the study of human security and many essential current topics in that field, such as access to food and water, security against personal violence, and economic security. Students will examine how international forces and structural elements of society can endanger or ensure the security of groups and individuals within the borders of nation-states. Students will learn to research, analyze, and address the connections between international forces and their affects upon human beings around the world.

POLS 140. Comparative Politics. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring

Survey of the field of comparative government and politics including a review of historic uses of comparison in political science research but with emphasis on the methods of study and analytical means of research currently employed. The subject matter of study: national political systems of all types and the component parts of political systems will be an integral feature.

POLS 141. Politics of the African Diaspora. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall only

Examines the social, political, cultural, and economic factors which have been important to the African diaspora. Examines how African people have responded to those factors, both in terms of formal, political thought, and in terms of political movements and political institutions. Examines thought and practice, comparability to Africa, U.S., Caribbean, Central and South America.
Cross Listed: ETHN 141; only one may be counted for credit.

POLS 142. Government and Politics in Africa. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only – even years

Deals with the politics and governments of Africa. The most important themes concern precolonial African systems, colonialism, nationalism and nation-building. Previous exposure to African Studies is desired but not required.

POLS 143. Causes of War, Causes of Peace. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Explores the entire conflict process associated with war from a variety of theoretical and methodological angles, including rationalist and behavioral models. Examines the concept of war and why wars begin. Looks at how violent international conflict is resolved. Investigates the role of the international community in the management of violent conflict, how peace processes are implemented, what leads to successful negotiations, and how war crimes and post-conflict reconciliation issues are resolved.

POLS 144. European Politics. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Study of national and regional politics, governmental institutions and public problems in Europe since 1945. In different semesters there may be investigation of several, but varying, national systems, of cross-national political behavior, or of regional integration processes. May be taken more than once if there are different topics and instructor permission.

POLS 145. Asian Politics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Survey of governmental institutions and political processes in East and Southeast Asia. Focuses on the region's politics, dynamic economic growth, complex security context, resurgence of nationalism, and attempts to build multilateral institutions.

POLS 146. US-China Relations. 3 Units
Term Typically Offered: Fall, Spring, Summer

This course explores the historical foundation of US-China relations, tracing from 19th century encounters through world wars, ideological confrontation, rapprochement, and into the contemporary era. Focus on international and political dimension of diplomatic and strategic interests, also explores cultural and social connections through trade, investment, migration, and tourism.
Cross-listed: ASIA 146.

POLS 147. Latin American Government and Politics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Two-part examination of government, politics, political change and political groups in Latin America. Part one examines the development of government, politics, political change and political groups. Part two presents national case studies.

POLS 148. Governments and Politics in the Middle East. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Survey of the governmental institutions and the political processes in the region, with emphasis on the problems of social change. Focuses on the colonial situation, the growth of nationalism, the revolution of rising expectations, Islamic political theory and its contemporary manifestations, the role of the military, and the current regional conflicts.

POLS 149A. Original Research in Comparative Politics. 3 Units
Prerequisite(s): An upper division course in the field and/or instructor permission.
Term Typically Offered: Fall only

Students will engage in a cross-national research agenda. Students will conduct original research in comparative politics, which requires an appreciation for distinct learning cultures in different countries. Countries acceptable for comparison will vary with instructor.

POLS 149R. Comparative Revolutions. 3 Units
Term Typically Offered: Fall, Spring

This course is primarily concerned with the causes, trajectories, and consequences of major revolutions and revolutionary movements of the 20th and 21st centuries. The course addresses the questions: what defines a revolution? What are the causes of revolutionary social change? Why do some revolutions fail to achieve their intended objectives and others succeed? How can political scientists investigate the possibility of objectively assessing revolutionary success or failure?

POLS 150. American Governments. 3 Units
General Education Area/Graduation Requirement: GE AREA D, U.S. Constitution + California State & Local Govt
Term Typically Offered: Fall, Spring, Summer

Federal system of government; the U.S. Constitution; legislative, executive, and judicial processes; political parties, interest groups, and the relationships and obligations of citizens to their government(s). Fulfills the California state graduation and credential requirements for U.S. Constitution and California State and Local Government. May be substituted for GOVT 1, but may not be used as an elective toward the major.

POLS 151. Bureaucracy. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Not offered

Evaluation of the role and background of a professionalized bureaucracy with references to American national, state and local administrative systems as well as non-American administrative systems.

POLS 152. Political Psychology. 3 Units
Term Typically Offered: Fall, Spring

Examines the ways in which political behavior is shaped by individual beliefs, personalities, cognitive patters, biases, and other psychological mechanisms. Students will engage with a wide range of research on topics such as cognitive styles, personality, obedience, psychological roots of terrorism, the psychology of ideology, and the role of emotion in politics.
Cross Listed: PSYC 153

POLS 153. The American Presidency. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Spring only

Examines the development of the Presidency as an institution; sources and uses of presidential power in contemporary politics; the President's relationship with Congress and the bureaucracy; and current issues relating to the office.

POLS 154. Political Parties in America. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall, Spring

Examination and analysis of American political parties. An exploration of the nature and functions of political parties including party organization, electorate, and government. Topics include the various historical party systems, the two-party system, elections, and campaign financing. Includes discussion of the presidential nominating process.

POLS 155. The Legislative Process. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Spring only

Examination and analysis of the institutions, the people and the behavior that make up the legislative process. Considers the nature of representation and the role and impact of such factors as committee structure, political parties, interest groups, and others on public policy. Focus is on both the U.S. Congress and the California State Legislature.

POLS 156. Interest Groups. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only – odd years

Examination and analysis of interest groups in American political systems. The nature, role, formation, organization and activities of interest groups; how interest groups influence the public, political campaigns, public policy-making, and policy implementation. Representative interest groups will be studied.

POLS 157. Politics, Opinion, and Participation. 3 Units
Term Typically Offered: Fall, Spring

How we learn and change our political beliefs, including the influence of media, religion and social standing. The various forms of political participation; who participates and who doesn't and why. The meaning and conduct of elections in the modern era.

POLS 158. Mass Media and American Politics. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only

Focuses on the role the mass media plays in the political life of our democracy. Five primary topics are covered: the proper media role in a democracy; the relationship between the media, public opinion and agenda setting; the effects of media coverage on campaigns, elections, and voting; how elected officials influence and 'spin' coverage; and the impact of media on policy-making. Students will develop critical analysis skills and emerge as more savvy media consumers and citizens.

POLS 159A. Campaigns and Elections. 3 Units
Term Typically Offered: Fall only – even years

Exploration of American campaigns and elections. Topics include the electoral process, voting behavior, the role of political parties, the media, interest groups, and candidate and campaign strategies. Focus will be on contemporary/current campaigns and elections.

POLS 159B. American Politics Seminar: Problems in Democratic Institutions. 3 Units
Term Typically Offered: Not offered

Examines the concept of representation and how it functions in the U.S. Congress and in state legislatures. In the first section different meanings of representation are discussed. In the second section interactions between legislators and their constituents are explored. Finally, the tradeoffs to different designs of representative institutions are studied.

POLS 159D. Politics, Immigration, and Citizenship. 3 Units
Prerequisite(s): GOVT 1
Term Typically Offered: Fall, Spring

This course will provide an overview of the political discussions and decisions related to immigration and citizenship in the US. More specifically, this course examines: (1) key political and policy actors in the development of immigrant admissions and immigrant integration policies, (2) the nature and consequences of immigration at the national, state, and local levels, (3) evolving racial and ethnic relations in the US, (4) public opinion and immigration-immigrants participation in American political life, and (5) contemporary issues.

POLS 162. American Film and Culture in the Nuclear Age. 3 Units
Term Typically Offered: Fall only

Explores the impact of the revolutionary change represented by the atomic bomb on forms of cultural response and expression in America. Attempts to analyze the bomb-culture relationship by reviewing important films, television programs, novels, essays, music and poetry that revealed, and helped shape, the hopes and anxieties that have characterized life in the nuclear age.

POLS 163. Introduction to Black Politics in the U.S.. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), GE AREA D
Term Typically Offered: Fall, Spring, Summer

Examines historically and currently the political life of black people in the U.S. Emphasis on understanding underlying conditions.

POLS 164. History of American Capitalism. 3 Units
Term Typically Offered: Spring only

Traces the development of the relationship between business and government in the U.S., especially in relation to state and federal regulations of those industries. Examines how individual entrepreneurs and regulators have contributed to the development of the modern American political economy.
Cross Listed: HIST 164; only one may be counted for credit.

POLS 165. Politics of the Underrepresented. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150; and GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer

Examines the phenomenon of political underrepresentation in the U.S.A. It will identify significant affected groupings, examine the conditions which have resulted in such underrepresentation, evaluate the effects of underrepresentation on the lives of affected groups, and consider relevant political strategies. Emphasis on particular groups may vary with instructor.

POLS 166. Gender and Politics. 3 Units
Term Typically Offered: Spring only

This course examines the influence of socially constructed meanings of femininity and masculinity on the political participation of women, candidate selection, election campaigns, and electoral outcomes in executive and legislative offices in the U.S. and worldwide. Students will develop a rich understanding of the relationship between gender and women's political representation and analyze and discuss institutional, structural, cultural, and historical conditions associated with women's voting behavior, political advancement, leadership styles, and impacts of political representation on women.
Cross Listed: WOMS 166; only one may be counted for credit.

POLS 167. American Political Development. 3 Units
Term Typically Offered: Fall only

Focuses on key transformative sequences in American political history and their consequences. Topics include the nature of American political culture and its role in shaping U.S. political institutions and public policy; the process of government growth or 'state building'; the role of political institutions in channeling societal demands and influencing public policy; the nature of American party systems or 'regimes' and the electoral 'realignments' that link them; and connections between long-term economic and political cycles.

POLS 168. Gay and Lesbian Politics. 3 Units
Prerequisite(s): POLS 1 or POLS 150
Term Typically Offered: Spring only

Provides a broad overview of the politics of gay rights in the United States. Particular emphasis is placed on gay rights at the state level (where the vast majority of policy is made) and major legal strategies and court rulings affecting the gay rights movement, since judiciaries have been the main venue for advancing gay rights arguments.

POLS 169A. Science, Technology, and Politics. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Social and political dimensions of science and technology. Examines how science and technology both shape politics and are shaped by politics. Considers the role of scientific advisors in government and society; dilemmas of expert authority and bias; relations between experts and non-experts; science and technology in popular culture; science and technology policy; implications of emerging technologies such as genetic engineering and the Internet for civil rights, moral values, and democracy.

POLS 169D. Latino/a Politics. 3 Units
Prerequisite(s): GOVT 1
Term Typically Offered: Fall, Spring

Systematically and analytically examines the predominant political trends, concepts, and policies presently impacting Latino/a communities. Includes such topics as an examination of Latino/a identity, immigration and citizenship, political organization and participation, and relationships with other minority groups in the United States.

POLS 170. Public Policy Development. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150 and GWAR Certification before Fall 09, or WPJ score of 70+, or at least a C- in ENGL 109M or ENGL 109W.
Term Typically Offered: Fall, Spring

Examines the policy development process in the U.S. by exploring the ideological predispositions of the American public, the analytical approaches applied to policy development and assessment, and the institutional and political environment in which policy is made. Typically, the understanding derived from this examination is applied to several policy issues of current interest.

POLS 171. Environmental Politics and Policy. 3 Units
Term Typically Offered: Spring only

Politics of human interaction with land, air and water. Political analysis of agenda setting, policy formation and administration (national, state, and local) of environmental programs. Focus on contemporary issues such as energy alternatives, management of toxics, land development, and pollution control.
Cross Listed: ENVS 171; only one may be counted for credit.

POLS 180. California State and Local Government. 3 Units
General Education Area/Graduation Requirement: GE AREA D, California State & Local Government
Term Typically Offered: Fall, Spring, Summer

California state, city and county politics and government. Comparisons with governments in other states. Meets State requirements in California State and Local Governments. Permits students who have fulfilled U.S. Constitution requirement in another state to meet graduation requirements for California State and Local Governments.

POLS 181. Comparative State Government. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150.
Term Typically Offered: Spring only

Examines the political diversity of the fifty states, with special attention paid to variations in state governing institutions. Topics covered include legislatures, governors, judiciaries, political parties, interest groups, elections, direct democracy, and state budget procedures.

POLS 182A. Sem Calif Govt+Politics. 3 Units
Term Typically Offered: Spring only

Open to selected students from each of the 20 CSU campuses, the Sacramento Semester program provides students with an opportunity to spend the semester studying and working directly in California State government. Participating students work as interns at the State Capitol for 25 or more hours each week. Interns are placed in legislators' offices, with legislative committees, party caucuses, lobbyists and interest groups, or in various executive, administrative, and judicial agencies. In addition to the internships, students participate in an academic seminar, California Government and Politics. The seminars frequently include as resource persons individuals who work in key policy-making positions in the state government.

POLS 182B. Sem Calif Govt+Politics. 3 Units
Term Typically Offered: Spring only

Open to selected students from each of the 20 CSU campuses, the Sacramento Semester program provides students with an opportunity to spend the semester studying and working directly in California State government. Participating students work as interns at the State Capitol for 25 or more hours each week. Interns are placed in legislators' offices, with legislative committees, party caucuses, lobbyists and interest groups, or in various executive, administrative, and judicial agencies. In addition to the internships, students participate in an academic seminar, California Government and Politics. The seminars frequently include as resource persons individuals who work in key policy-making positions in the state government.

POLS 184. Introduction to Urban Politics. 3 Units
Prerequisite(s): GOVT 1 or GOVT 150
Term Typically Offered: Fall only

Problems of urban areas and proposed solutions; politics and government. May be offered as lecture-discussion class or as a seminar. Field study may be required.

POLS 195A. Internship. 1 - 6 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W. Minimum GPA of 2.5 (both in the major and overall).
Term Typically Offered: Fall, Spring, Summer

Credit/No Credit

POLS 195B. Internship Sacramento Semester. 1 - 6 Units
Prerequisite(s): Minimum GPA of 2.5 (both in the major and overall).
Term Typically Offered: Spring only

Credit/No Credit

POLS 195D. Internship - Washington DC. 6 Units
Prerequisite(s): GWAR certification before Fall 09, WPJ score of 70+, or at least a C- in ENGL 109 M/W.
Term Typically Offered: Fall, Spring

Credit/No Credit

POLS 198A. Odyssey Peer Advisers. 1 - 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Provides individualized learning opportunities (1-3 units per semester) for engaging in peer advising along with elective activities such as tutoring, assisting faculty with research, event planning and other activities of a comparable nature. Students should be upper division students or graduate students. The units may not be applied towards unit requirement of the Government major, Government IR and Government/Journalism.
Note: This course may be repeated up to a total of six units.

Credit/No Credit

POLS 198B. Peer Advising by Odyssey. 1 Unit
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Provides opportunity for lower division students, students on probation, and newly declared majors to be mentored by more advanced upper division students or graduate students. This peer advising will help students meet academic deadlines, achieve academic success, become engaged in campus activities and integrated into the Government Department. Units may not be applied towards unit requirement of the Government major, Government IR and Government/Journalism
Note: This course may be repeated one time only for unit credit.

Credit/No Credit

POLS 199. Independent Studies. 1 - 3 Units
Prerequisite(s): GOVT 1 or equivalent, and nine units upper division government courses.
Term Typically Offered: Fall, Spring

Permits a student to pursue study and research in an area not otherwise available through the regular curriculum. Open only to upper division Government majors with at least a 3.0 GPA in the major.
Credit/No Credit

POLS 200. Method and Scope in Political Science. 3 Units
Prerequisite(s): STAT 1 or its equivalent.
Term Typically Offered: Fall, Spring

Introduction to the philosophy of science, and the scope and methods of empirical research in political, social and policy science. In the area of philosophy of science, focuses on the logic of scientific inquiry, theory testing and confirmation and causal explanation. In the area of scope and methods, critically examines the scientific merits of several competing approaches to the study of politics and policy, as well as some of the major methodological controversies and debates in the literature.

POLS 210. Political Theory. 3 Units
Prerequisite(s): An upper division course in the field and/or instructor permission.
Term Typically Offered: Fall, Spring

Historical and social roots, democratic or authoritarian ideologies; the conflict of ideologies; philosophic approaches.
Note: May be repeated for credit with permission of Graduate Coordinator.

POLS 213. Special Topics in American Political Thought. 3 Units
Term Typically Offered: Fall, Spring

A class examining the historical and philosophical discourse in America on central topics of debate, such as the meaning of citizenship, civil society, democracy, federalism, religion, and civil rights open to both advanced undergraduates and graduate students.
Note: Undergraduates are strongly encouraged to have completed GOVT 113 or an equivalent course.

POLS 218. Special Topics in International Political Thought. 3 Units
Term Typically Offered: Fall, Spring

A class examining the philosophical underpinnings and the theatrical problems of central concepts and problems in international relations, including human rights, intercultural dialogue, problems of just war and international justice through a study of historical and contemporary texts open to both advanced undergraduates and graduate students.
Note: Undergraduates are strongly encouraged to have completed GOVT 118 or an equivalent course.

POLS 219. Specialized Studies in Political Theory. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Makes it possible for political theory students to deal with questions which theorists have asked, and to attempt to answer such questions for themselves.
Note: May be repeated for credit with permission of Graduate Coordinator.

POLS 230. Theories of International Relations. 3 Units
Prerequisite(s): Upper division course in the field and/or instructor permission.
Term Typically Offered: Fall, Spring

Examination of the theory and practice of international relations including such subfields as international law, international organization, foreign policy and national security policy.
Note: May be repeated for credit with permission of Graduate Coordinator. Cross Listed: IA 210; only one may be counted for credit.

POLS 236. Seminar in International Political Economy. 3 Units
Prerequisite(s): An upper division course in the field and/or instructor permission.
Term Typically Offered: Fall, Spring

This seminar is a graduate-level introduction to the theory and substance of international political economy (IPE). It examines the various theoretical approaches to IPE; considers the role of trade, money, and finance in the international political economy; analyzes the pattern and structure of global production, with an emphasis on multinational corporations; surveys international development issues, including Third World economic development strategies, the debt crises, structural adjustment, and economies in transition; and investigates the politics of globalization.
Cross Listed: IA 221; only one may be counted for credit.

POLS 239. Globalization and International Relations. 3 Units
Prerequisite(s): An upper division course in international relations or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to the theories and substance of globalization. It examines alternative theories of globalization; considers globalization's political impact on the territorial state, regionalism, the welfare state, the military, immigration, and the environment; investigates the politics of the anti-globalization backlash; and concludes with an assessment of the future political trends of globalization.
Cross Listed: IA 230; only one may be counted for credit.

POLS 240. Comparative Government and Politics. 3 Units
Prerequisite(s): Advanced course in the field.
Term Typically Offered: Fall, Spring

Advanced study of some of the world's governmental and political systems. May focus on single countries, groups of countries or general categories of systems. Considers theoretical concept and methodology.
Note: May be repeated for credit with permission of Graduate Coordinator. Cross Listed: IA 222; only one may be counted for credit.

POLS 249A. Middle East Politics and the United States. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Graduate introduction to politics and governments of the Middle East and the impact of the United States foreign policy in the region. Relies on a comparative frame to tease out the causes of intrastate and interstate conflicts in the region, as well as the effects of the American foreign policy on the contemporary political trends in the Middle East, including those relating to the Arab-Israeli conflict, Islamic political resurgence, and terrorism.

POLS 250. Basic Issues of American Government. 3 Units
Prerequisite(s): An upper division course in the field and/or instructor permission.
Term Typically Offered: Fall, Spring

Exploration in-depth of topics such as federalism, executive-legislative relationships, problems of representation, government reorganization, congressional reform, the electoral process.
Note: May be repeated for credit with permission of Graduate Coordinator.

POLS 270. Political Behavior and Political Processes: California and Beyond. 3 Units
Term Typically Offered: Fall, Spring

Course will explore public opinion, voting behavior, representation and political psychology with special focus on California.
Note: Undergraduates may take the course with instructor permission.

POLS 280. California Politics. 3 Units
Term Typically Offered: Fall, Spring

Advanced study of California's state and local governments, with emphasis on political history, political institutions, and the role of direct democracy on the state's government, budget and politics. Demographic and geographic elements will be scrutinized through a political focus. California's policy and political process will also be examined, as well as discussion of various political reforms.
Note: Undergraduates may take the course with instructor permission. Prerquisite

POLS 281. Comparative State Government. 3 Units
Term Typically Offered: Fall, Spring

Examines state political institutions and processes. Special attention will be paid to how the political variation among the states shapes processes and outcomes. Topics covered will include governors, legislatures, interest groups, public opinion, political parties, and elections.

POLS 284. Urban Politics. 3 Units
Term Typically Offered: Fall, Spring

In-depth exploration of the socio-economic problems of urban and metropolitan areas and an evaluation of proposed political and governmental solutions.
Note: May be repeated for credit with permission of Graduate Coordinator. Cross Listed: PPA 284; only one may be counted for credit.

POLS 293A. Senate Fellows Introductory Seminar. 3 Units
Term Typically Offered: Fall, Spring

Critical analysis and examination of the operation of the State Capitol and the larger political environment of political parties, interest groups, and public opinion.
Note: Open only to students admitted to the California Senate Fellows Program.

POLS 293B. Senate Fellows Policy Seminar. 3 Units
Term Typically Offered: Fall, Spring

Seminar will analyze procedural issues and public policy questions within the State Senate, legislature, and contemporary California politics.
Note: Open only to students admitted to the California Senate Fellows Program.

POLS 294A. Assembly Fellows Introductory Seminar. 3 Units
Term Typically Offered: Fall, Spring

Critical examination of state and local governmental institutions and processes. Seminar will impart an advanced understanding of the structures and processes of California's political institutions, government and legislature.
Note: Open only to students admitted to the Jesse M. Unruh Assembly Fellowship Program.

POLS 294B. Assembly Fellows Policy Seminar. 3 Units
Term Typically Offered: Fall, Spring

Seminar focuses on current California policy issues and the lawmaking process.
Note: Open only to students admitted to the Jesse M. Unruh Assembly Fellowship Program.

POLS 295. Government Internship. 1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised work experience in an approved legislative or administrative office at some level of local or state government, or in a politically-related organization that is concerned with government. Supervision is provided by the faculty instructor and responsible officials in the work situation. **Note:** Open to all graduate students, subject to instructor permission. No more than 3 units of GOVT 295 may be counted toward the Master's degree.

Credit/No Credit

POLS 299. Independent Study. 1 - 3 Units
Term Typically Offered: Fall, Spring

For advanced graduate students who have demonstrated their ability to carry on advanced, independent research. Permits a student to pursue study and research in an area not otherwise available through the regular curriculum. Student must be advanced to candidacy.
Credit/No Credit

POLS 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy.
Term Typically Offered: Fall, Spring

Should be taken after completion of all other requirements for the degree. Students may choose from the following options, which they must declare when they advance to candidacy: Thesis, Project, or Comprehensive Examination.

Psychology (PSYC)

PSYC 2. Introductory Psychology. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Provides a general overview of theory and research concerning psychological processes at the basic, individual and social levels. Topics will include physiological psychology, comparative psychology, learning, motivation, sensation and perception, developmental psychology, personality, social psychology, maladaptive behavior, individual differences, and selected other topics. Requires three hours of participation as a research subject.

PSYC 4. Navigating Psychology: The Major and Careers. 1 Unit
Prerequisite(s): PSYC 2 and Psychology majors only.
Term Typically Offered: Fall, Spring

Covers requirements for the major and career options in psychology and related fields. Students learn to design plans of study to meet requirements for the major and enhance career objectives. Introduces career options in various areas such as academic psychology, applied behavior analysis, counseling and mental health, education, industrial-organizational psychology and related fields. Class activities clarify students' career goals and develop skills for job seeking and graduate education. Requires participation as a research subject.
Credit/No Credit

PSYC 8. Methods of Psychology. 3 Units
Corequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Introduction to methods of the science of psychology. The topics include psychology as a way of knowing, the role of science in psychology, the nature of psychological research, research ethics, psychological literature and report writing, psychological measurement, and the design and analysis of case studies, survey research, field studies, correlational methods, and experimental methods. Requires three hours of participation as an experimental subject.

PSYC 9. Introductory Statistics for Psychology. 3 Units
Prerequisite(s): PSYC 2, may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to descriptive and inferential statistics as tools for evaluating data from Psychological research. Topics include: measures of central tendency, measures of variability, correlation and regression, sampling distributions, hypothesis testing procedures including t-tests and analysis of variance. Application of hand computation will be emphasized to include the interpretation and significance of the statistical findings.

PSYC 100. Cross-Cultural Psychology. 3 Units
Prerequisite(s): PSYC 2, PSYC majors only.
Corequisite(s): PSYC 8.
Term Typically Offered: Fall, Spring

Examination of similarities and differences in human behavior, cognition, and emotion across cultures. Empirical evidence from cross-cultural research in the various areas of psychology, including biological, clinical, cognitive, developmental, social, personality, and industrial/organizational psychology, is evaluated with the purpose of developing a global perspective on the psychological processes underlying human behavior, cognition, and emotion.

PSYC 101. Statistics for Psychology. 3 Units
Prerequisite(s): Passing score on ELM; PSYC 2, PSYC 4, PSYC 8. PSYC majors only. PSYC 4 may be taken concurrently.
Term Typically Offered: Fall, Spring

Introduction to descriptive and inferential statistics as tools for evaluating data from Psychological research. Topics include: measures of central tendency, measures of variability, correlation and regression, sampling distributions, hypothesis testing procedures including t-tests and analysis of variance, and selected other topics. Application of hand computation will be emphasized to include the interpretation and significance of the statistical findings.

PSYC 102. Advanced Methods and Statistics in Psychological Research. 4 Units
Prerequisite(s): PSYC 121; Psychology majors only.
Term Typically Offered: Fall, Spring

Plan and conduct projects using experimental, quasi-experimental and correlational methods. Evaluate published research and write proposals with attention to such issues as the reliability and validity of methods, the degree to which statistical assumptions are met, the adequacy of statistical power, and the internal and external validity of the project. Contemporary research design, measurement, and analysis techniques are examined, including the use of statistical software, for varieties of univariate and multivariate research designs. Lecture-discussion three hours; laboratory three hours.

PSYC 103. Perception. 3 Units
Prerequisite(s): PSYC 2, PSYC or CRJ majors only. PSYC 8 and PSYC 9 are recommended.
Term Typically Offered: Fall, Spring

Examination of how information about the outside world is sensed and how that information is organized and interpreted to form perceptions. Vision and audition will be primarily examined, along with some coverage of the other senses. Topics may include psychophysical methods, basic physiology and function of sensory systems, perception of color and form, motion, distance, auditory patterns, body and limb position, temperature, pain, perceptual constancies, attention, perceptual learning, adaptation, and perceptual development.

PSYC 104. Learning Theories. 3 Units
Prerequisite(s): PSYC 2, PSYC 8, PSYC 9, and PSYC majors only or instructor permission.
Term Typically Offered: Fall, Spring

Examination of classical and contemporary theories of learning, and a sampling of experimental findings which bear directly on the theories. Some attention is given to theory construction in psychology.

PSYC 106. Motivation. 3 Units
Prerequisite(s): PSYC 2; PSYC majors only or instructor permission.
Term Typically Offered: Fall, Spring

Study of theories and experimental findings related to basic processes in animal and human motivation.

PSYC 107. Controversial Issues in Psychology. 3 Units
Prerequisite(s): PSYC 121; Psychology majors only
Term Typically Offered: Fall, Spring

Consideration of unresolved issues of interest to psychology and the general public, such as the use of animals in research and mind and health. Emphasis is on critical analysis (but not solution) of the issues as they are presented in public discourse. Discussion format, written reports and evaluations.

PSYC 108. Organizational Psychology. 3 Units
Term Typically Offered: Fall, Spring

This course will provide an overview of the dynamics of human behavior in organizations, using the lens of psychological theory. Students will explore individual-, group-, and systems-level phenomena in organizations, with the overriding goal of understanding how to maximize performance, well-being, and satisfaction at work. Topics may include job attitudes, teams, organizational culture, individual differences, leadership, employee development, organizational change, occupational stress, fairness and diversity, and more.

PSYC 110. Cognitive Psychology. 3 Units
Prerequisite(s): PSYC 2; PSYC majors only. PSYC 8 and PSYC 9 are recommended.
Term Typically Offered: Fall, Spring

Examination of the basic concepts of cognitive psychology, including sensory storage, pattern recognition, attention, short-term memory, long-term memory, visual imagery, semantic memory structure, text processing, problem solving and decision-making. The relations among artificial intelligence, mental modeling, and the simulation of cognitive processes will also be explored.

PSYC 111. Foundations of Behavioral Neuroscience. 3 Units
Prerequisite(s): PSYC 2; PSYC majors and PSYC minors only. PSYC 8 and PSYC 9 are recommended.
Term Typically Offered: Fall, Spring

Introductory overview of the neurobiology of behavior. Emphasis is on the central and autonomic nervous systems and the endocrine system. Topics include physiological, biological and genetic factors involved in sensation and perception, motivation, learning and memory, emotion, social behavior, and mental disorders.

PSYC 115. Introduction to Neuroscience. 4 Units
Prerequisite(s): PSYC 2 and PSYC 8; PSYC or BIO majors only. PSYC 9 recommended.
Term Typically Offered: Spring only

Introduction to the structure and function of the nervous system including neuroanatomy, neurophysiology, and systems neuroscience. Lectures and readings emphasize the empirical questions, techniques and methods used in neuroscience research. Laboratory activities focus on nervous system structure and some of the specialized techniques used within the fields of cellular, systems, and behavioral neuroscience. Lecture-discussion three hours; laboratory three hours.
Cross Listed: BIO 115; only one may be counted for credit.

PSYC 116. Animal Behavior. 3 Units
Prerequisite(s): PSYC 2; PSYC majors only or instructor permission.
Term Typically Offered: Fall, Spring

Basic principles of animal behavior including the genetic, evolutionary and ecological mechanisms underlying courtship, reproduction, aggression, territoriality, communication and parental behavior; applied aspects of animal behavior; innate or naturally occurring behavior patterns necessary for survival in the natural environment; physiological, social and acquired aspects of animal and, secondarily, human behavior.

PSYC 117. Drugs and Behavior. 3 Units
Prerequisite(s): PSYC majors only or instructor permission.
Term Typically Offered: Fall, Spring

Examination of the classification of psychoactive drugs and their mode of action. Covers effects of psychoactive drugs on central nervous system structure and function and on behavior; use, abuse, effects, and dangers of therapeutic and recreational drugs; motivational aspects of drug use, and methods for treating addiction.

PSYC 118. Cognitive Neuroscience. 3 Units
Prerequisite(s): PSYC 111 or PSYC 115 or PSYC 117 or BIO 132.
Term Typically Offered: Fall, Spring

Examines how the nervous system accomplishes cognitive functioning. Brain mechanisms of higher functions such as memory, attention, sensorimotor integration, decision making, and language will be covered.

PSYC 119. Human Factors Psychology. 3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring

Study of the scientific application of psychology and human performance to the design of products and complex systems. Applications of perception, cognition, and human physical limitations are covered, with an emphasis on understanding how they relate to design. Topics include perception, attention, decision making, memory, action, and how they related to areas such as product design, human-machine interaction, health and medicine, aviation and aerospace, ergonomics of the workplace, and designing for special populations.

PSYC 120. Psychological Testing. 3 Units
Prerequisite(s): PSYC 121; PSYC majors only.
Term Typically Offered: Fall, Spring

Construction, application, interpretation and evaluation of psychological tests. Tests used to measure general mental ability, specific abilities and aptitudes, personality, interests and attitudes are surveyed.

PSYC 121. Methods and Statistics in Psychological Research. 3 Units
Prerequisite(s): PSYC 4 (may be taken concurrently), PSYC 8, and PSYC 9; PSYC majors only.
Term Typically Offered: Fall, Spring

Project-based experience of Psychology. Study of scientific processes in research such as literature reviews; developing testable hypotheses; design; IRB review; data collection, analysis, and interpretation; critical analysis of studies; APA paper preparation; and issues in dissemination. Study of some advanced statistical processes such as factorial ANOVAs, planned and post hoc comparisons, and multiple regression. Study of statistical software programs used in the analysis of data.

PSYC 122. Qualitative Research in Psychology. 3 Units
Prerequisite(s): PSYC 121 and PSYC majors only.
Term Typically Offered: Fall, Spring

Examines the philosophy underpinning the use of qualitative research and the methods and analyses strategies used in qualitative research. Methods may include interviews, focus groups, participant observation, and behavioral observation. Analyses strategies may include grounded theorizing, negative case analyses, developing case studies, and content coding. Issues pertaining to data accuracy and consistency will be examined, and the researcher's role in interpreting results. Students will complete research projects involving the collection and/or analyses of qualitative data.

PSYC 129. Behavioral Research Methods. 3 Units
Prerequisite(s): PSYC 121 and PSYC 171, PSYC majors only or ABA certificate students
Term Typically Offered: Fall, Spring, Summer

Covers evaluating and thinking critically about behavioral research (i.e., data collection, logic, designs). Topics include: comparing group and single-case designs; observational strategies and measuring inter-observer reliability; displaying and interpreting behavioral data; single-case experimental design including reversal, multiple-baseline, alternating treatments, changing-criterion, and combinatory designs; research ethics; identifying characteristics of pseudoscience; and disseminating behavioral research. The versatility of single-case designs will be discussed by including a wide range of case examples from multiple disciplines in the social and behavioral sciences and education.

PSYC 130. Personality Theories. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Detailed examination of classic and contemporary personality theories such as those of Freud, Jung, Adler, Horney, Fromm, Skinner, Dollard and Miller, Rotter, Bandura, Kelly, Rogers, Maslow and May. Theories will be considered with respect to content, conceptual image of the individual, and current status.

PSYC 134. Psychology of Human Sexuality. 3 Units
Prerequisite(s): PSYC 2.
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Covers the inherent biological, as well as the psychological, social and cultural similarities and differences between the sexes. Sexual myths and misconceptions are explored, and the sex roles and patterns of interaction currently practiced in our society are discussed.

PSYC 135. Psychology of Multicultural Groups. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Examines the role of culture, race, ethnicity, gender, and social class in human development and behavior within diverse cultural groups. Presents sociocultural and ecological perspectives on human development, i.e., that individuals must be understood in the context of his or her culturally patterned social relations, practices, institutions, and ideas. Explores psychological issues that pertain to the major ethnic minority groups in the U.S.

PSYC 137. Stress Management. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of the causes and manifested effects of various stressors related to acculturation, socio-economic, physical, occupational, and psychological pressures. Techniques for recognizing and coping with stress will be explored. Emphasis is on the development of skills to handle commonly encountered stress-producing situations.

PSYC 142. Community Psychology. 3 Units
Prerequisite(s): PSYC 121 and PSYC majors only.
Term Typically Offered: Fall, Spring

This course is designed to introduce you to the field of community psychology, which is concerned with the scientific study of social problems through collaborative research. This course will provide you with ecological frameworks that aim to reduce social problems (e.g., poverty, mental illness and others) as well as core values of community well-being, empowerment, and collaboration. You will be exposed to prevention and intervention programs employed to solve social concerns as well as potential implications for practice and policy.

PSYC 143. Practicum in Community Psychology. 3 Units
Prerequisite(s): academic level of senior, Psychology majors only, and instructor permission.
Corequisite(s): PSYC 142
Term Typically Offered: Fall, Spring

Classroom and on-site experience in community psychology. Students will work at a community organization for a minimum of six hours per week with supervision by authorized persons at the organization. Students will also attend weekly class meetings to discuss the application of concepts in community psychology to practicum experience. Topics include: ethics, structure and capacity of community organizations, working with diverse populations, and professional relationships.

PSYC 145. Social Psychology. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Empirical examination of the emotion, behavior, and cognition of individuals in social situations. Topics can include: social psychology methods, social perception, social cognition, attitudes, persuasion, social identity, gender identity, prejudice and discrimination, interpersonal attraction, close relationships, conformity, compliance, obedience to authority, helping behavior, aggression, group processes, and social psychology applications. Multiple perspectives discussed.

PSYC 148. Child Psychology. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Examination of behavioral and physiological development during the prenatal period, and behavioral, cognitive and social development during infancy and childhood. Theories, methods and empirical research will be studied.

PSYC 149. Psychology of Adolescence. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Growth and development during the adolescent period and the interrelationships between adolescents and their culture are studied. Physical, psychological, social and educational problems and their implications are considered.

PSYC 150. Psychological Aspects of Aging. 3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring

Developmental study of human aging emphasizing psychosocial, psychopathological, biological, intellectual and personality processes from a theoretical and research-oriented perspective. Influences including culture, gender, gender identity, race, ethnicity, sexual orientation, and socio-economic status on aging are examined.

PSYC 151. Psychological Aspects of Death and Dying. 3 Units
Prerequisite(s): Student's academic level must be Junior or higher to enroll in this class.
Term Typically Offered: Fall, Spring

Examination of the beliefs, attitudes, and behaviors associated with death and dying. Topics covered include children's and adults' concepts of dying and death; causes and types of death; self-destructive behavior; grief and mourning in the dying person and their survivors; physician aid in dying and other legal and ethical issues; and cross-cultural and historical perspectives on death.
Cross listed: GERO 124

PSYC 152. Psychological Aspects of Health, Wellness, and Illness. 3 Units
Prerequisite(s): PSYC 2 and PSYC 8.
Term Typically Offered: Fall, Spring

Examines social, psychological, and behavioral factors important for physical health and emotional well-being. Psychological perspectives are applied to such topics as behavioral medicine, health promotion and compromise, the stress-illness relationship, social relations, personality, emotions, chronic illness, death and dying, and health care provider and patient interactions. Explores the development of health problems and the causes of premature death, as well as research on how psychology can help people live longer, healthier lives.

PSYC 153. Political Psychology. 3 Units
Term Typically Offered: Fall, Spring

Examines the ways in which political behavior is shaped by individual beliefs, personalities, cognitive patterns, biases, and other psychological mechanisms. Students will engage with a wide range of research on topics such as cognitive styles, personality, obedience, psychological roots of terrorism, the psychology of ideology, and the role of emotion in politics.
Cross Listed: GOVT 152

PSYC 157. Psychology of Women. 3 Units
Prerequisite(s): PSYC 2 or instructor permission.
Term Typically Offered: Fall, Spring

Contemporary psychological theories and issues related to the psychology of women in America and globally. Psychological theories may include but are not limited to feminism, cognitive-behavioral, self-object relations, humanistic, social learning and existential. Issues may include development, sexuality, mental health, psychotherapy, physical health, education, work, violence against women, gender inequality, multicultural perspectives, aging, parenting, criminal behavior, politics, sexual slavery, reproductive rights, religion, spirituality, and the arts.
Note: A service course for WOMS.

PSYC 160. Homosexuality. 3 Units
Term Typically Offered: Fall, Spring

Exploration of the psychological world of gay men and lesbians. An examination of psychological theories, empirical research, and phenomenological perspectives. Covers psychological functioning, homophobia, disclosure, relationships, parenting, and aging.

PSYC 165. Evolutionary Psychology. 3 Units
General Education Area/Graduation Requirement: Further Studies in Area B (B5)
Term Typically Offered: Fall only

Examination of empirical literature on emotion, behavior, and cognition of individuals from an evolutionary perspective. Topics can include: scientific methods in evolutionary psychology, survival strategies, mating strategies, parenting, kinship, cooperation, altruism, aggression, sexual conflict, and social dominance.

PSYC 167. Psychology in Personnel Training and Development. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Application of psychological principles to problems of personnel training and development; techniques for determining training requirements, motivating trainees, providing feedback on trainee performance, and ensuring positive transfer of training to the job situation; personnel development programs.

PSYC 168. Abnormal Psychology. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Detailed consideration of behavior disorders and maladaptive behavior: theories of causation, descriptions of the disorders, and strategies of various therapies.

PSYC 169. Industrial Psychology. 3 Units
Prerequisite(s): PSYC 2, PSYC 8.
Term Typically Offered: Fall, Spring

Comprehensive overview of various human resources practices and policies, with an emphasis on people's psychological reactions to them. Topics include: recruitment, employee selection, training, employee compensation, legal aspects of employment decisions, and ethics in human resource management.

PSYC 171. Applied Behavior Analysis. 3 Units
Prerequisite(s): PSYC 2 and PSYC majors or posted Behavior Analysis Certificate only, or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Introduction to theory, historical background, and philosophical assumptions relevant to behavior analysis with individuals. Lectures and laboratory activities in basic principles of behavior and methodology.

PSYC 177. Special Topics Capstone: Advanced Study in Psychology. 3 Units
Prerequisite(s): PSYC 2, 4, 8, 9, must have Senior status to enroll in course.
Term Typically Offered: Fall, Spring, Summer

Examines a special topic of interest in psychology. Offered by rotating instructors, the capstone explores selected topics in psychology, and contemporary developments in theories, methodologies, and/or methods in the selected sub-discipline or topical area. Topics can include subject matter from all areas of psychology, including, but not limited to: applied behavior analysis, clinical, cognitive, community, cultural, developmental, experimental, feminist, health, industrial-organizational, neuroscience, perception, quantitative, social, etc., as well as related methodologies. Recommend prior coursework in area of focus.
Note: May be repeated for credit providing the topic and instructor are not the same.

PSYC 181. Experimental Analysis of Behavior. 4 Units
Prerequisite(s): PSYC 9, PSYC 171, and PSYC majors only.
Term Typically Offered: Fall only

Extensive analysis of single subject experimental research on intermittent reinforcement of behavior, including complex schedules, stimulus control, generalization, and verbal behavior. Lecture-discussion three hours; laboratory three hours; laboratory may include a component of self paced instruction.

PSYC 183. Teaching of Psychology. 3 Units
Prerequisite(s): Instructor permission
Term Typically Offered: Fall, Spring

Study of best practices in the Teaching of Psychology. Selected topics may include, course preparation, skills for fostering student learning, strategies for improving student writing, theories of assessment, using technology in the classroom, sensitivity to diversity, teaching special populations, and the ethical and legal issues faced in the classroom. Students attend scheduled seminars on course topics and course are mentored by a professor in the Department of Psychology (called Faculty Mentor/Sponsor).
Credit/No Credit

PSYC 184. Clinical Issues in Applied Behavior Analysis. 4 Units
Prerequisite(s): PSYC 2 and PSYC 171, and PSYC majors or ABA Certificate students only
Term Typically Offered: Spring only

Extensive study of applied behavior analytic methods in the assessment, development, and implementation of treatment programs for a variety of clinical issues including pediatric behavior problems, developmental disabilities, hyperactivity, parent-child difficulties, school-related problems, behavioral safety, brain injury, and dementia. Lecture three hours; laboratory three hours.

PSYC 185. Psychology of Exceptional Children. 3 Units
Prerequisite(s): PSYC 2.
Term Typically Offered: Fall, Spring

Examines characteristics, special needs, and problems of children who differ from the group norm because of their level of abilities, physical handicaps, or other deviations.

PSYC 190. History and Systems of Psychology. 3 Units
Prerequisite(s): PSYC 9 and PSYC majors only.
Term Typically Offered: Fall, Spring

Covers the development of the various schools and systems of psychology, and their philosophical roots, interrelationships and differences. Normally taught with a seminar or proseminar format.

PSYC 191. Undergraduate Practicum in Behavior Analysis. 3 Units
Prerequisite(s): PSYC 171 or PSYC 181.
Term Typically Offered: Fall, Spring

Classroom and on-site experience in applied behavior analysis. Students will work at an approved agency for a minimum of 10 hours per week under the supervision of a Board Certified Behavior Analyst. Students will also meet in class to present and review their cases. Emphasis will be placed on treatment integrity and ethics.
Note: Requires permission of instructor. May be repeated for credit.

PSYC 194. Cooperative Research. 1 - 6 Units
Prerequisite(s): PSYC 2, PSYC 8, and PSYC 9. PSYC 121 recommended.
Term Typically Offered: Fall, Spring

Opportunity for dedicated students interested in graduate school or a career involving research to work cooperatively on a psychological research project under faculty supervision.
Note: May be repeated once for up to 6 units of credit.

PSYC 195A. Fieldwork in the Teaching of Psychology. 1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised experience in various educational and instructionally related tasks, such as leading discussion groups, setting up and presenting demonstrations, constructing and scoring tests, and tutoring, at selected educational institutions in the Sacramento area.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 195B. Fieldwork in Child Observation. 3 Units
Prerequisite(s): PSYC 148 or equivalent.
Term Typically Offered: Fall, Spring

Supervised observation of preschool children in a formal school setting.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 195C. Fieldwork in Industrial and Organizational Psychology. 1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised work experience at an appropriate level in business and governmental organizations.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 195F. Fieldwork in Community Psychology. 1 - 4 Units
Term Typically Offered: Fall, Spring

Supervised experience in various community and governmental agencies, such as the Suicide Prevention Service, Planned Parenthood, and the California Youth Authority. The experience must be of an applied psychological nature, determined collectively by the agency, the supervising faculty member, and the student.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit and a third time if another agency is involved.

Credit/No Credit

PSYC 195G. Fieldwork. 1 - 6 Units
Term Typically Offered: Fall, Spring

Projects in contemporary areas of psychology under the supervision of one or more faculty.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 196S. Psychology of Religion. 3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring

Introduction to psychological aspects of religion, including its foundations, measurement, and research methods. Selected topic areas include: religious & spiritual development; religion and spirituality in neuroscience, cognitive psychology, emotion, personality, social psychology, and cross-cultural psychology; religion and spirituality in health, mental health, coping, and psychotherapy.

PSYC 196T. Black Psychology. 3 Units
Prerequisite(s): PSYC 2
Term Typically Offered: Fall, Spring

Examines the concepts, issues and theories related to the psychology of the African American experience. Through the exploration of topics related to the African American experience in the United States, including, but not limited to, African philosophy, the US Census, media representations, language, and political enfranchisement, the course utilizes an interdisciplinary approach to interrogate the cultural, historical, political, and social factors influencing Black identity in the US and the creation of Black Psychology.

PSYC 197A. Advanced Research I. 1 - 4 Units
Prerequisite(s): PSYC 194 and permission of instructor and Department Chair. Graded; 1 - 4 units.
Term Typically Offered: Fall only

Advanced research opportunity for students who have completed previous research experiences in PSYC 194. Students in the course are expected to develop advanced skills in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 197B. Advanced Research II. 1 - 4 Units
Prerequisite(s): PSYC 197A and permission of instructor and Department Chair. Graded; 1 - 4 units.
Term Typically Offered: Fall, Spring

Advanced research opportunity for students who have completed previous research experiences in PSYC 197A. Students in the course are expected to demonstrate competence in advanced research skills in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 198A. Prospects for Success: Peer Mentee. 1 Unit
Term Typically Offered: Fall, Spring

Provide psychology majors with information and experiences necessary for developing academic goals, skills, and better understanding of the Psychology major. Weekly meetings with peer mentors to discuss topics that include academic planning, website navigation, preparation for meeting with professors, academic skills, student professionalism and resume/CV development.
Note: May be repeated for credit

Credit/No Credit

PSYC 198B. Prospects for Success: Peer Mentor. 2 - 3 Units
Prerequisite(s): PSYC 4 and permission from instructor
Term Typically Offered: Fall, Spring

Provide peer mentoring and advising to Psychology majors. Develop peer mentoring knowledge and skills through training and assigned readings. Peer mentors provide psychology majors with information and experiences necessary for developing academic goals, skills, and a better understanding of the Psychology major. Conduct weekly mentee meetings to discuss topics that include academic planning, website navigation, preparations for meetings with professors, academic skills, student professionalism and resume/CV development.

PSYC 199. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Requires permission of instructor and the Department Chair.

Credit/No Credit

PSYC 200. Methods in Empirical Psychology. **3 Units**
Prerequisite(s): PSYC 8, PSYC 101, PSYC 102.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Philosophy of science, critical thinking in the design of research studies, and professional issues. Topics include: nature of science; observational, experimental, and case study designs; formulating research questions; measurement strategies; scaling and coding; internal and external validity; naturalism in research; quasi-experiments; archival research; physical traces; data collection; interpreting results; program evaluation; professional writing; and ethics.

PSYC 202. Survey of Contemporary Statistical Methods in Psychological Research. **3 Units**
Prerequisite(s): Graduate standing; PSYC 102 or equivalent
Term Typically Offered: Fall, Spring

Broad coverage of common univariate and multivariate designs and analyses used in contemporary psychological research. Primary focus is on providing the basic tools for carrying out the analyses in statistical software and interpreting the results, as well as understanding results presented in published research reports. Topics include various ANOVA and multiple regression models and applications including related categorical and multivariate alternatives, such as logistic regression analysis, discriminant function analysis, MANOVA, path analysis, factor analysis, canonical correlation analysis.

PSYC 204. Advanced Topics in Statistical Methods for Psychological Research. **3 Units**
Prerequisite(s): PSYC 202
Term Typically Offered: Fall, Spring

Advanced treatment of selected research design and analysis methods of psychological research. Applications of the general and generalized linear models (e.g., multiple regression models, structural equation models, multilevel models, and limited dependent variable models) for a variety of research designs and data structures. Intermediate to advanced training in statistical software and data management. Focus is on understanding foundations and assumptions of the methods, understanding interrelationships between the methods, performing specialized and non-routine analyses when needed, and interpreting results in detail.

PSYC 205. Measurement Methods for Psychological Research and Practice. **3 Units**
Prerequisite(s): PSYC 202
Term Typically Offered: Fall, Spring

Detailed coverage of classical and modern theories and models of psychological measurement, and their applications in research and professional testing settings. Primary focus is on principles of constructing and analyzing measures, including both paper-and-pencil tests/surveys and performance-based tests that require rater judgment in scoring. Measurement models include classical testing theory, generalizability theory, confirmatory factor analysis, Rasch measurement, and item response theory.

PSYC 206. Tests and Measurement. **3 Units**
Prerequisite(s): Graduate standing and PSYC 102 or its equivalent.
Term Typically Offered: Fall, Spring

Examines the administration, interpretation, and application of psychological tests used by behavioral scientists in clinical, educational, organizational, and other settings. Test development, reliability and validity, and legal considerations will be discussed.

PSYC 209. Seminar in Systems of Psychology. **3 Units**
Term Typically Offered: Fall, Spring

Historical review of the systems of thought which led to modern psychology. An examination of current psychological systems and their development. Factors that differentiate psychological systems will be studied.

PSYC 210. Theories of Personality. **3 Units**
Prerequisite(s): PSYC 102 or equivalent; PSYC 102 may be taken concurrently.
Term Typically Offered: Fall, Spring

Study of the role of personality theory in the field of psychology, and an examination of the current theories.

PSYC 216. Current Literature in Personnel and Organizational Psychology. **3 Units**
Prerequisite(s): Course work in Personnel and Organizational Psychology; PSYC 102 or its equivalent.
Term Typically Offered: Fall, Spring

Analyzes selected current articles on theory and research in such journals as the Journal of Applied Psychology, Personnel Psychology, and Organizational Dynamics, with written and oral critiques.
Note: May be repeated twice for credit.

PSYC 216A. Current Literature and Applications in Industrial-Organizational Psychology. **3 Units**
Term Typically Offered: Fall only

Seminar to review current literature in selected organizational psychology topics, and develop proposals for applied research in industrial-organizational psychology. Literature focus will be centered on personal and interpersonal factors influencing the quality of work life and experiences of employees. Application focus will be centered on identifying organizational problems amenable to research, reviewing literature and common practices to identify potential solutions, designing a research methodology to address the problem and evaluate the solution, and writing research proposals including Human Subjects Review.

PSYC 216B. Current Literature and Applications in industrial-Organizational Psychology. **3 Units**
Prerequisite(s): PSYC 216A
Term Typically Offered: Spring only

Seminar to discuss implementation of applied research proposals from the previous semester and review current literature in performance management and workforce planning systems. Application focus will be centered on understanding organizational contexts and constraints for implementing research, obtaining managerial and participant cooperation, maintaining methodological rigor in the field, systematically and objectively recording data, and preparing data for analysis. Literature focus will be centered on methods for measuring employee performance relative to objectives, understanding performance barriers, and identifying human resource needs.

PSYC 217. Seminar in Social Psychology. 3 Units
Prerequisite(s): Graduate standing
Term Typically Offered: Fall, Spring

Review of classic and contemporary theories and research in social psychology. Topics may include group dynamics, social influence, aggression, helping behavior, attitudes, dissonance and self-justification, prejudice, stereotyping, and discrimination; automaticity and social cognition, motivation, and gender. Emphasis upon the application of social psychological theories and research to social problems.

PSYC 240. Seminar in Behavioral Neuroscience. 3 Units
Prerequisite(s): Graduate standing
Term Typically Offered: Fall, Spring

Surveys the fundamental principles of Behavioral Neuroscience, the connection between the brain and behavior. Topics may include: neuroanatomy, electrochemical transmission, sites and mechanism of drug action, sensation and perception, motor systems, developmental processes, neuroendocrine systems, learning and memory, attention, emotion, executive function, neurodegenerative disease and the neurobiology of mental illness. Seminal experiments and recent discoveries within the field will be reviewed and discussed with a focus on how these findings impacted and continue to influence past and current theory.

PSYC 241. Seminar in Cognitive Psychology. 3 Units
Prerequisite(s): Graduate standing
Term Typically Offered: Fall, Spring

Provides a survey of topics in human information processing. Selected topics may include perception, attention, memory, knowledge, categorization, problem solving, reasoning, decision making, and language comprehension and production. Classical theories and experiments in these areas will be reviewed in addition to applications of this work to practical problems.

PSYC 242. Seminar in Learning and Behavior. 3 Units
Prerequisite(s): Graduate standing
Term Typically Offered: Fall, Spring

Surveys the area of Psychology concerned with how people and animals learn and how their behaviors are changed as a result of this learning. Selected topics include: Inmate behaviors, respondent and operant learning, behavioral economics, comparative cognition, theories of imitation, choice and self-control. Classical theories and current experiments in these areas will be reviewed in addition to implications of this work to practical problems.

PSYC 251. Developmental Processes. 3 Units
Prerequisite(s): PSYC 148 or PSYC 149.
Term Typically Offered: Fall, Spring

Study of the psychological processes underlying development throughout the life span. Covers such topics as cognitive, language, emotional, and relationship development in terms of the individual. Attention will be given to functioning of the individual within social units such as the family.

PSYC 262. Theoretical Foundations of Organizational Psychology. 3 Units
Prerequisite(s): PSYC 108 or equivalent.
Term Typically Offered: Fall, Spring

Major theories that made significant theoretical contributions to organizational psychology are covered, along with areas of significant research which have provided the foundations of modern organizational psychology.

PSYC 267. Training & Employee Development. 3 Units
Term Typically Offered: Fall only

This course will provide an overview of the application of psychological principles to employee training and development, and an in-depth review of common training and development practices. Additional topics include techniques for determining training requirements, motivating trainees, providing feedback on trainee performance, ensuring positive transfer of training to the job environment, and employee development programs.

PSYC 268. Advanced Psychopathology. 3 Units
Term Typically Offered: Fall, Spring

Covers an advanced and detailed discussion of the description, etiology, development, dynamics and treatment of individuals with mental disorders. Since the DSM-IV is the major classification system used by mental health professionals, it will also be discussed. This manual describes essential features of a variety of disorders and outlines the basis on which an experienced clinician can differentiate one disorder from another.
Note: May substitute EDC 231.

PSYC 269. Analysis of Work and Employee Selection. 3 Units
Term Typically Offered: Spring only

Survey of work analysis, with emphasis on designing employee selection systems. Topics to include multiple methods for analysis of different types and aspects of work, and applications of the results such as: Explicating the performance construct for a given job; identifying human attributes required for successful performance; evaluating jobs in terms of compensation; selecting appropriate measurement methods for predictor and criterion constructs; evaluating predictor utility; and the legal environment for employee selection practice.

PSYC 271. Advanced Applied Behavior Analysis. 4 Units
Prerequisite(s): Graduate status and instructor permission.
Term Typically Offered: Fall, Spring

Designed both for graduate students who are interested in gaining knowledge about the fundamental principles of behavioral psychology and those who are pursuing certification as a Board Certified Behavior Analyst. Students will not only learn behavioral theory and the means by which behavior is increased, decreased, shaped and maintained, but they will learn to apply behavioral principles to more complex topics such as concept formation and novel behaviors.

PSYC 272. Research Methods in Behavior Analysis. 3 Units
Prerequisite(s): PSYC 171 or PSYC 181.
Term Typically Offered: Fall, Spring

Covers methods related to single-case research (i.e., data collection, logic, designs). Course content is based primarily on contemporary books and articles from peer-review journals. Topics include: measurement of behavior, methods of assessing inter-rater agreement; experimental design including, reversal designs, changing-criterion designs, alternating treatment designs, and multiple-baseline designs; and displaying and interpreting behavioral data. Current methodological issues will be discussed.

PSYC 274. Theoretical Foundations of Behavior Analysis. 3 Units
Prerequisite(s): PSYC171 or PSYC181 or equivalent.
Term Typically Offered: Fall, Spring

Covers major theories that have made significant contributions to behavior analysis, along with areas of significant research providing the foundations of radical behaviorism and contemporary behavior analysis. Topics include history of behaviorism, selection by consequences as a casual mode, pragmatism, determinism, logical positivism, dualism x monism, verbal behavior and private events.

PSYC 275. Applied Behavior Analysis in the Workplace. 3 Units
Prerequisite(s): Graduate students only
Term Typically Offered: Fall only

Overview of contemporary research and practice on the use of applied behavior analysis techniques in the workplace. Students will learn to use several performance assessment and improvement tools based on the operant learning literature, as well as learn strategies for effective supervision, training, and management of staff in human service organizations.

PSYC 281. Advanced Experimental Analysis of Behavior. 4 Units
Prerequisite(s): PSYC 271.
Term Typically Offered: Fall, Spring

Advanced consideration of small-N research designs. Analysis of complex contingencies of reinforcement and stimulus control as they apply to such topics as perceiving, thinking, abstractions, and concept formation. In-depth examination of behavior analytic principles in relation to choice behavior and verbal behavior.

PSYC 283. Teaching Of Psychology. 3 Units
Term Typically Offered: Fall, Spring

Covers the historical background of higher education, the social and administrative structure of colleges and universities, and the selection, preparation and planning of undergraduate psychology courses, particularly introductory courses.

PSYC 284. Assessment and Treatment of Behavior Problems. 4 Units
Prerequisite(s): Graduate status and instructor permission.
Term Typically Offered: Fall, Spring

Advanced study and practical experience in application and teaching of behavior analytic methods of assessment, data collection, program construction and evaluation for a variety of behavior problems. Students will become proficient in conducting functional analyses, positive programming, and constructing and implementing behavior intervention programs for behavior excesses (consistent with State of California laws) including, antecedent manipulations, differential reinforcement schedules, functional communication training, and response cost. They will be required to develop didactic skills with respect to these various programs. Lecture three hours; Lab three hours.

PSYC 291. Professional Issues in Behavior Analysis. 3 Units
Prerequisite(s): PSYC 271.
Term Typically Offered: Fall, Spring

Classroom and on-site experience in applied behavior analysis. Students will work at an approved agency for a minimum of 10 hours per week under the supervision of a Board Certified Behavior Analyst. Students will also meet in class to present and review their cases. Emphasis will be placed on treatment integrity and ethics.
Note: Requires permission of instructor. May be repeated for credit.

PSYC 294. Cooperative Research. 1 - 6 Units
Term Typically Offered: Fall, Spring

Students work cooperatively on a psychological research project under faculty supervision.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

PSYC 295A. Fieldwork in the Teaching of Psychology. 1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised experience in various educational and instructionally related tasks, such as leading discussion groups, setting up and presenting demonstrations, constructing and scoring tests, and tutoring, at selected educational institutions in the Sacramento area.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 295C. Fieldwork in Personnel and Organizational Psychology. 1 - 6 Units
Term Typically Offered: Fall, Spring

Supervised work experience at a professional level in business and governmental organizations.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 295G. Fieldwork. 1 - 6 Units
Term Typically Offered: Fall, Spring

Projects in contemporary areas of psychology under the supervision of one or more faculty.
Note: Requires permission of instructor and the Department Chair. May be repeated once for credit.

Credit/No Credit

PSYC 297A. Advanced Graduate Research I. 1 - 4 Units
Prerequisite(s): PSYC 294
Term Typically Offered: Fall, Spring

Advanced research opportunity for graduate students who have completed previous research experiences in PSYC 294. Students in the course are expected to develop advanced skills in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 297B. Advanced Graduate Research II. 1 - 4 Units
Prerequisite(s): PSYC 297A
Term Typically Offered: Fall, Spring

Advanced research opportunity for graduate students who have completed previous research experiences in PSYC 297A. Students in the course are expected to demonstrate competence in research methods, data management, data analysis, and the communication of research findings by conducting research on collaborative projects under the guidance of a psychology faculty supervisor.

PSYC 299. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Requires approval of instructor and Department Chair.
Credit/No Credit

PSYC 500A. Culminating Experience. 4 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree.

PSYC 500B. Culminating Experience. 2 Units
Prerequisite(s): PSYC 500A.
Term Typically Offered: Fall, Spring

Continuation of work on thesis or project.

Public Health (PUBH)

PUBH 50. Healthy Lifestyles. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Examines the concepts of: health and wellness; the determinants of health and wellness; and the concept of self-responsibility for health and wellness. These health and wellness concepts shall be applied to the areas of: mental wellness, nutrition, fitness, human sexuality, and drugs. The lecture/discussion format provides for a sharing of views regarding the integrated concepts of health that emphasizes the physical, mental, emotional, social, spiritual, and environmental factors that influence an individual's health status.

PUBH 98. Health Science ProSeminar. 3 Units
Term Typically Offered: Fall, Spring

Potential and beginning Health Science students become oriented to the Health Science discipline. They will acquire and develop the knowledge and understanding needed to fulfill the Health Science major learning outcomes. Students will develop their individual learning plans designed to assure fulfillment of the Health Science major, General Education, and University graduation requirements.

PUBH 100. Fundamentals of Safety and Health. 3 Units
Prerequisite(s): must be a Health Sciences or a Fire Service Management major or minor to enroll in this class
Term Typically Offered: Fall, Spring

Explores global and national issues in occupational and non-occupational safety and health. Subjects include motor vehicle, consumer, workplace, fire, school, and home safety. Examines concepts and principles related to the cause, control, and mitigation of unintentional injuries and illnesses. Emphasizes the development, implementation, and integration of effective safety and health program strategies in the prevention and control of loss.

PUBH 106. Occupational Health. 3 Units
Prerequisite(s): Health Science majors or minors only, or instructor permission.
Term Typically Offered: Spring only

Concepts of occupational health as they pertain to appraising and controlling occupational health hazards, including occupational diseases, chemical, biological, and physical agents. Discusses techniques for the recognition, evaluation, prevention, and control or occupational health hazards.

PUBH 107. Occupational Safety. 3 Units
Prerequisite(s): Health Science majors or minors only; or instructor permission.
Term Typically Offered: Spring only

Examines common hazards and problems encountered in the workplace, including concepts and principles related to the control and mitigation of occupational safety hazards. Emphasizes the development, implementation, and integration of effective occupational safety and health program components.

PUBH 108. Occupational Health and Safety Laws and Regulations. 3 Units
Prerequisite(s): Health Science majors or minors only; or instructor permission.
Term Typically Offered: Fall only

Overview of regulatory agencies involved in occupational health and safety and their functions in the enforcement of regulation and/or compliance of safety laws. Special emphasis on Cal/OSHA. Other topics: application of surveillance, research, control technology, and trained personnel to maintain compliance. Recognizes that strategies to achieve a safe workplace includes an analysis of economic and employment impacts on the employer.

PUBH 109. Cause and Control of Occupational Loss. 3 Units
Prerequisite(s): Health Science majors or minors only; or instructor permission.
Term Typically Offered: Fall only

Study of the characteristics, causes, and control of occupational loss; influence of the work environment and system structure on incident outcomes; and analysis of occupational injuries and illnesses through the application of incident investigation and system safety techniques. Course will use occupational injuries and illnesses to focus on the process of problem identification and analysis, including the development and implementation of control measures.

PUBH 110. Issues in Occupational Health and Safety. 3 Units
Prerequisite(s): HLSC 100 or instructor permission
Term Typically Offered: Fall, Spring

Examines current and emerging issues in occupational health and safety, including historical, philosophical, and conceptual factors that serve as a basis for predicting, understanding, and resolving occupational health and safety issues. Examples include: Issues in high hazard industries, special populations at risk, emerging technologies, occupational hazards, and traumatic injuries.

PUBH 112. Disease Prevention. 3 Units
Prerequisite(s): Health Science majors or minors only; or instructor permission
Term Typically Offered: Fall, Spring

Surveys the current methods of promoting high level wellness through a preventive medicine approach for the promotion of more enjoyable and productive living. Attention directed toward the specific methods of promoting personal health through various current methodologies including the 'holistic health' movement. Meets the needs of major students as well as those in allied fields such as nursing, social work and other interested students.

PUBH 114. Human Ecology and Health. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Emphasizes the social and natural environmental influences that have a direct impact upon the health of the individual. Primary consideration is directed to an analysis of health as influenced by a person's interaction with his/her environment.

PUBH 116. Public Health Administration and Policy. 3 Units
Prerequisite(s): Must be a Health Science or Gerontology major or minor
Term Typically Offered: Fall, Spring

Understanding of the management of public health programs; pattern of health organization; the scope of public health concern of environmental health and health service marketing. Consideration of the various administration factors involved in the practice of public health by department, division or agency unit.

PUBH 117. Global Health. 3 Units
Prerequisite(s): Health Science majors or minors only; or instructor permission
Term Typically Offered: Fall, Spring

Introduction to the globalization of public health and the critical health issues facing all citizens of the world, with special emphasis on health concerns of developing countries. Topics include global malnutrition, primary health care, maternal and child health, international environmental health, comparative health care systems, epidemiology and international health threats, and sustainable health and development programs undertaken by nongovernmental organizations.

PUBH 118. Community Health. 3 Units
Prerequisite(s): Must be a Health Science major or minor
Term Typically Offered: Fall, Spring

Insights into comprehensive planning for health by community health agencies and organizations in implementing their programs.

PUBH 119. Community Health Education. 3 Units
Prerequisite(s): Must be a Health Science major or minor with a minimum 'C' grade or better in HLSC 118 or have instructor permission
Term Typically Offered: Fall, Spring

In addition to the current practice in community health education, examines the philosophical, conceptual and theoretical constructs that serve as a basis for understanding, predicting and facilitating change in health-related behavior. Explores the use of health communication processes, selected instructional media, health planning, community organization techniques, and mass communications in community health education.

PUBH 122. Health Psychology. 3 Units
Prerequisite(s): Must be a Health Science or Child Development major or minor
Term Typically Offered: Fall, Spring

Introduction to behavioral and social factors which influence health and illness. Explores the causes of premature death, the relationships between personality and health, and the development of health problems. Includes an overview of psychological principles in behavioral medicine, physiological foundations of health psychology, the role of emotions in immune function, and topical theories of, techniques for, and research on how psychology can help people live longer, healthier lives.

PUBH 124. Consumer Health Education. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Introduction to the processes and methods of conducting health education within the clinical setting and the integration of educational theory and applied health knowledge specific to common health disorders. Topics to include the dimensions of quackery in health treatments, efficacy of safety standards, and the elements of deceptive advertising and bogus claims. Emphasis on how to distinguish health facts from bogus claims, make effective consumer decisions of health care services, and the basics of self-health care.

PUBH 130. Alcohol and Other Drugs. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Various aspects of drug usage will be studied with emphasis on the role of health education in reducing abuse. This course is designed to explore contemporary issues related to alcohol and other drugs. The course will examine the physiological, psychological, social, and cultural impact of licit and illicit drugs.

PUBH 134. Understanding Human Sexuality. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

This course is designed to explore gender and social issues associated with human sexuality. The course will examine the impact of physiological, psychological, social, and cultural differences and similarities on the sexual health of diverse groups. The course will explore issues related to age, ability/disability, sexual identity, sexual myths, misconceptions, gender and gender expression.

PUBH 136. School Health Education. 2 Units
Prerequisite(s): CPR training; may be taken concurrently.
Term Typically Offered: Fall, Spring, Summer

Provides teacher candidates, social workers, and nurses an understanding of the educational methods, processes, and content of the scope of health education as provided in the Framework for Health Instruction of the California State Department of Education. Offers an understanding of current problems related to personal, family and community health. General theories and organization for teaching health education will be discussed. Meets the requirement for teacher candidates under the SB2042.
Note: Not open to lower division students.

PUBH 144. Community Health Planning and Evaluation. 3 Units
Prerequisite(s): HLSC 118, HLSC 148; GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X; or instructor permission; restricted to Health Science majors and minors.
Term Typically Offered: Fall, Spring

Introduces students to the process and practice of program planning and evaluation. Examines the social and physical determinants of health; the impact of the community structure on health status; and, the influence of personal health behavior on community health education practice. These concepts shall be applied in the planning, implementation, and evaluation of health education services.

PUBH 147. Health Data Analysis. 3 Units
Prerequisite(s): STAT 1, Health Science major or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to methods and statistical practices used in the health sciences. Emphasis on the methods of collection, analysis, interpretation, and presentation of health data. Conceptual learning will be facilitated by sessions using computational software.

PUBH 148. Epidemiology. 3 Units
Prerequisite(s): STAT 1 or instructor permission; Health Sciences or Biological Sciences major or minor.
Term Typically Offered: Fall, Spring, Summer

Designed to offer cognitive insights into community health epidemiology. Provides understanding of the study of the distribution and determinants of communicable, infectious and chronic disease, and of injuries in the human population.

PUBH 150. Aging and Health. 3 Units
Prerequisite(s): Student must be admitted to the Health Science, Kinesiology, or Gerontology major or minor, or have instructor permission to enroll in this course.
Term Typically Offered: Fall, Spring

Designed to introduce students to the basic aging and health concerns of older people and to broader issues of aging, health and society. Examines the: demography of the aging population, biological theories of aging, social and psychological aspects of aging. Includes such issues as nutrition, drugs, exercise, sexuality, patterns of health services utilization, institutionalization, alternatives to the provision of long-term care in institutions, and dying.

PUBH 151. Introduction to the U.S. Healthcare System. 3 Units
Prerequisite(s): Student must be admitted to the Health Science major or minor, or have instructor permission to enroll in this course.
Term Typically Offered: Fall, Spring

This course presents an overview of the historical, structural, and operational aspects of the nation's healthcare systems. Students will examine the factors that shape public policy regarding the allocation of health care resources and will gain an understanding of the relationship between healthcare costs, quality of care, and the access to health services. The influence of professional associations, medical technology, and social values in health reform initiatives is discussed.

PUBH 152. Healthcare Systems and Operations. 3 Units
Prerequisite(s): Health Science majors and minors only; or instructor permission
Term Typically Offered: Fall, Spring

Introduce students to a broad range of issues related to managing healthcare organizations. Students will explore areas such as organizational behavior and theory applied to healthcare organizations and the role of administrators in planning, organizing, and overseeing the delivery of healthcare services. Organizational principles and decision-making strategies are applied to functional areas of health administration including finance, human resources, performance improvement, strategic planning, and healthcare information systems.

PUBH 153. Administration of Healthcare Organizations. 3 Units
Prerequisite(s): Health Science majors only
Term Typically Offered: Fall, Spring

Introduction to the study of healthcare administration. Examines the broad field of healthcare administration. Topics include healthcare management, leading healthcare professionals, strategic planning in healthcare, healthcare budgeting and finance, healthcare insurance, healthcare marketing, healthcare information technology, healthcare ethics and law, and healthcare fraud and abuse.

PUBH 154. Healthcare Organizational Behavior. 3 Units
Prerequisite(s): Health Science (Health Care Administration) majors only
The study of healthcare organizational behavior including individual and group dynamics in the context of healthcare settings. Examines the impact of organizational contexts on the behavior of individuals and groups in healthcare organizations. Topics include individual motivation, power and influence, leadership theory, stress in the workplace, decision-making, conflict and negotiation, group dynamics, and change planning in healthcare.

PUBH 155. Introduction to Healthcare Process Improvement. 3 Units
Prerequisite(s): Health Science majors only
Term Typically Offered: Fall, Spring

An exploration of the basic principles and techniques of process improvement in healthcare through a range of topics, including measurement of health care system performance to creating high-quality services that result in organizational improvement and customer satisfaction.

PUBH 195. Fieldwork - Health or Safety. 2 - 4 Units
Prerequisite(s): Permission of faculty advisor, program coordinator and Department chair.
Term Typically Offered: Fall, Spring, Summer

To obtain insights into the practical application of the classroom teachings, fieldwork experiences are required of those preparing for a career in community health education or other areas of health and safety studies.
Note: Submit an application for field work no later than the fourth week of the semester prior to taking HLSC 195. May be repeated once for credit.

Credit/No Credit

PUBH 196. Experimental Offerings in Health Science. 1 - 3 Units
Term Typically Offered: Fall, Spring

Undergraduate seminar designed to provide an in-depth examination and discussion of current topics in the area of personal and community health and safety.

PUBH 199. Special Problems. 1 - 3 Units
Prerequisite(s): Permission of faculty under whom individual work will be conducted, program coordinator, and Department chair; HLSC 116, HLSC 118, HLSC 119, and HLSC 148 are strongly recommended.
Term Typically Offered: Fall, Spring

Note: Open only to HLSC majors and minors who appear competent to conduct independent work such as

Credit/No Credit

PUBH 201. Behavioral and Social Sciences in Public Health. 3 Units
Prerequisite(s): MPH major or instructor approval.
Term Typically Offered: Fall, Spring

Psychological and social concepts and models relevant to population health are reviewed and critiqued. The course will enable students to describe core theoretical perspectives from each of the social science disciplines of psychology, sociology, and anthropology. Students will learn how to select and apply appropriate social and behavioral models to the design of public health interventions and policies. The course will also cover the critical interrelationships among social determinants, environmental influences, behavioral risk factors, and health disparities.

PUBH 202. Ecological Determinants of Human Health. 3 Units
Term Typically Offered: Fall, Spring

This course will explore both natural and built environments and their impact and consequences on human health. It will examine the social, structural & political determinants affecting ecology, examining social & environmental justice. An emphasis will be placed on unintentional consequences of human interactions with respect to their physical environment. The course will examine current national and international issues in environmental health, including but not limited to anthropogenic climate change, biodiversity loss, ocean acidification, and carbon footprinting.

PUBH 203. Public Health Management and Leadership. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

This course examines the role of management and leadership practices in public health organizations and draws on theory to explore the role of public health leaders in planning, budgeting, staffing, and controlling performance. Students will explore relevant leadership topics such as organization development, employee motivation, and emotional intelligence. The nuances of leading in a government agency are also considered. These topics are set in the context of ethical management and leadership practices.

PUBH 204. Healthcare Systems, Structures, and Policies. 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

This course explores health care systems from a macro perspective, including historical development, information technology, healthcare policy and resource allocation, the healthcare workforce, issues surrounding access to healthcare, prevention in healthcare, population health and medicine, various delivery models, and public health¿s partnership with healthcare. Comparisons are made between the US health care system and other nations in relation to costs and quality.

PUBH 207A. Health Research Methods and Analysis (A). 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Introduces students to the fundamentals of research methodology in applied epidemiology, biostatistics and evaluation research. Students learn quantitative, qualitative, mixed method and participatory approaches to research, as well as ethical behavior in conducting research. Through the mix of texts, articles from the public health literature and course work, students will build skills for conducting research and analysis across a variety of public health applications.

PUBH 207B. Health Research Methods and Analysis (B). 3 Units
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Explores intermediate and advanced research methods in applied epidemiology, biostatistics and evaluation research. Students learn about tools for describing central tendency and variability in data, methods for performing inference on population parameters via sample data, statistical hypothesis testing and its application to group comparisons, issues of power and sample size in study design, and sampling techniques. Students will also examine common research methods used in program evaluation.

PUBH 220. Health Policy Analysis. **3 Units**
Prerequisite(s): MPH major or instructor approval.
Term Typically Offered: Fall, Spring

Students develop strategies for the analysis of health policy issues and learn to communicate effectively in the policy environment. Students gain a local, state, and federal perspective on the historical and political context of health policy and its effects on public health and health care systems, with an emphasis on population health outcomes.

PUBH 221. Strategies for Community Engagement. **3 Units**
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Students master the concepts and practices of community engagement, including defining a community, developing community coalitions, forming multi-sector partnerships, social network theory, community-based participatory research, the community engagement continuum of impact, trust, and readiness, models of community change/intervention, community psychology, and community organizing. Students will apply these concepts in a culminating semester project that includes developing a community engagement strategy to address a health issue. Ethics in community engagement underlies the basic approach taken throughout the course.

PUBH 222. Methods of Health Promotion. **3 Units**
Prerequisite(s): Master of Public Health major or instructor permission.
Term Typically Offered: Fall, Spring

This course explores theories of health communication, teaching and learning, marketing and advertising, and health behavior to prepare students to design effective health promotion interventions. Students will learn to utilize multiple methods of health promotion, including presentation planning, social marketing, material design, and mediated communication. This course also emphasizes the importance of public engagement and the development of effective communication with public health stakeholders including consumers, community groups, policy makers, health care providers, news media, and the general public.

PUBH 223. Leadership in Public Health Practice. **3 Units**
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Examines the role of leadership in public health practice at the program, agency, and community-organization level, with an emphasis on leading community health improvement efforts. Students become aware of their leadership style through assessment and experiential activities, while learning to adapt their approach to leading across multiple settings. Particular emphasis is placed on leading groups and teams in practice settings often encountered by public health professionals.

PUBH 224. Program Planning and Evaluation. **3 Units**
Prerequisite(s): Master of Public Health majors or instructor permission. Field trip.
Term Typically Offered: Fall, Spring

Covers the essential elements of planning, implementing, and evaluating a health promotion program. Aspects of the course include the application of health behavior theory and program planning models, consideration of the social and physical determinants of health, structural influences on personal health status, and the influences of social and health policy on communities.

PUBH 225. Topics in Public Health Seminar. **3 Units**
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Summer only

Introduces students to a variety of pressing issues impacting current public health practice and provides an opportunity to explore one or more of those issues in greater depth. Students conduct research using multiple sources on a variety of topics, present findings to the class, and create a solution-centered project with potential applications for practice.

PUBH 295. Public Health Practicum. **3 Units**
Prerequisite(s): Master of Public Health major or instructor permission.
Term Typically Offered: Fall, Spring, Summer

Provides students with an in-depth, supervised experience in an applied practice setting. Students explore broad areas of public health practice and conduct supervised field research on a specific area of professional interest. Students further develop expertise in an area of interest by providing consultation and technical assistance to a project or organization engaged in public health work.
Credit/No Credit

PUBH 500. Public Health Capstone. **3 Units**
Prerequisite(s): MPH major or instructor permission.
Term Typically Offered: Fall, Spring

Guides students through a culminating experience in the Master of Public Health program. Seminars discuss and review the integration of core public health concepts and concentration competencies. Students create materials that demonstrate the analysis, synthesis, and intersection of course work, while demonstrating mastery of the broad field of public health.

Public Policy and Administration (PPA)

PPA 100. Introduction to Public Policy and Administration. **3 Units**
Prerequisite(s): GOVT 1 or GOVT 150 or equivalent.
Term Typically Offered: Fall, Spring

Explores context and process for policy making by national and California state governments, including ethical dimensions. Applications are developed from students' and instructor's areas of interest including K-12 and higher education, land-use policy, and aging issues such as elder advocacy, Social Security, and Medicaid. Provides background and skills for entry level positions in public or non-profit organizations.
Cross Listed: GERO 102; only one may be counted for credit.

PPA 200. Introduction to Public Policy and Administration. **3 Units**
Term Typically Offered: Fall, Spring

Examines public policy and administration by exploring major policy processes, particularly in California state and local government. Topics include the emergence and specification of issues, developing and selecting policy options, implementing and administering policies and evaluating and terminating public policies. The course approach is comprehensive, transdisciplinary and human centered -- concerned with the interplay of values in shaping policy outcomes. The intent is to provide conceptual frameworks and operational principles required in identifying and resolving issues emerging in public settings.
Note: Satisfies the Graduate Writing Intensive Requirement (GWI).

PPA 205. Research in Public Policy and Administration. 3 Units
Term Typically Offered: Fall, Spring

Emphasizes fundamental research and management skills necessary in generating accurate and useful decision-related information for policy makers. Topics include conceptualizing and structuring research questions, collecting valid and relevant data and interpreting and presenting results. The course approach is pragmatic, transdisciplinary, and oriented to producers and users of policy research information. The intent is to enhance research skills in analyzing and resolving policy issues.

PPA 207. Quantitative Methods in Public Policy and Administration. 3 Units
Prerequisite(s): ECON 1B, PPA 205 or instructor permission.
Term Typically Offered: Fall, Spring

Study of quantitative methods as applied in public policy analysis. Concentrates on interpreting the results of econometric, statistical, and other public policy studies, and on determining the relevance and applicability of quantitative analysis with the larger scheme of public policy decision making.

PPA 210. Political Environment of Policy Making. 3 Units
Prerequisite(s): PPA 200 or instructor permission.
Term Typically Offered: Fall, Spring

Assists students in learning to identify the political factors impinging on the policy process and in learning to cope with them. With special emphasis on the California political environment and issues, employs case studies, structured role-playing, and including politically feasible policy alternatives and advice to hypothetical clients. The goal is to equip students to work effectively as politically aware policy analysts.

PPA 220A. Applied Economic Analysis I. 3 Units
Prerequisite(s): ECON 1B, or instructor permission.
Term Typically Offered: Fall, Spring

Presents the basic concepts, tools, and models of microeconomics in the context of public sector choices. The standard market demand and supply model is developed and used to analyze the effect of public policies (particularly those of California state and local governments) on consumers and businesses. The principles of welfare economics are presented and used to evaluate economic performance.
Note: Graduate Writing Intensive Course.

PPA 220B. Applied Economic Analysis II. 3 Units
Prerequisite(s): PPA 220A.
Term Typically Offered: Fall, Spring

Continuation of PPA 220A which focuses specifically on the role of government in a market-oriented economy with emphasis on market failures including: public goods, externalities, and monopoly. Corrective taxes and expenditure programs are discussed, and the technique of cost-benefit analysis is developed and applied to various state and local government projects.

PPA 230. Public Budgeting and Finance. 3 Units
Term Typically Offered: Fall, Spring

Enables students to understand, analyze, and evaluate the governmental budget process including revenue and expenditure patterns. The primary emphasis is on California state and local governments. The federal budget process is discussed primarily to reflect the impact that it has on state and local governments. Features both theoretical and practical approaches to budgets, including alternate budget formats. Various perspectives are utilized to explore the political, economic, and policy concerns inherent in the development and implementation of public sector budgets.

PPA 240A. Public Management and Administration I. 3 Units
Prerequisite(s): 1) graduate standing and 2) completion of PPA program prerequisites, or instructor permission.
Term Typically Offered: Fall, Spring

Examines concepts and approaches used in analyzing and understanding complex organizations. Organizational theory, management concepts, and behavioral analysis is employed to understand the dynamics and evolution of public sector organizations. Emphasis is placed on applying classic organizational theory and introductory leadership skills and issues.

PPA 240B. Public Management and Administration II. 3 Units
Prerequisite(s): PPA 240A.
Term Typically Offered: Fall, Spring

Continuation of PPA 240A. Examines concepts and approaches used in analyzing and understanding complex organizations. Emphasis is placed on ability to intervene and assist public agencies by designing intervention plans, engaging in strategic planning, promoting interdepartmental effectiveness, using advanced leadership issues and techniques, and using advanced organizational development strategies.

PPA 250. California Land Use Policy. 3 Units
Term Typically Offered: Fall, Spring

Examines public policies that influence land use. Reviews tools of land use planning and development and applies them to issues that dominate California policy choices including urban design, fiscalization of land use, sustained growth, and the challenges of social equity.

PPA 251. Urban Problems, Economics and Public Policy. 3 Units
Prerequisite(s): PPA 220A or ECON 100B.
Corequisite(s): ECON 251; only one of these courses may be counted for credit.
Term Typically Offered: Fall, Spring

Historical development, economics and possible policy solutions of the most pressing problems facing central cities and urban areas in the U.S. are presented. Problems discussed include poverty, crime, urban abandonment/suburban sprawl, edge cities, deteriorating infrastructures, and fiscal stress.
Cross Listed: ECON 251; only one may be counted for credit.

PPA 270. Introduction to Collaborative Policy Making. 3 Units
Prerequisite(s): PPA 200 and PPA 210, or approval of instructor.
Term Typically Offered: Fall, Spring

Examines the theory and practice of collaborative policy-making using case studies of major collaborative processes. Topics include interpretative policy analysis, deliberative democracy theory, public participation, collaborative policy networks, the use of dialogue in public policy, resolution of policy controversies, and consensus building.

PPA 272. Collaborative Governance Advanced Practice. 3 Units
Prerequisite(s): PPA 270 with a grade of B- or better, or instructor permission.
Term Typically Offered: Fall, Spring

Practice driven, highly participatory course for professionals who require more advanced skills into collaborative methods. Topics include conflict analysis and assessment, analysis of advocacy speech, public participation, working with the media, and interagency networks. Focuses on active learning with practice in a wide variety of collaborative skills.

PPA 284. Urban Policy. 3 Units
Term Typically Offered: Fall, Spring

Exploration in-depth of the socio-economic problems of urban and metropolitan areas and evaluation of proposed political and governmental solutions.
Cross Listed: GOVT 284; only one may be counted for credit.

PPA 291. Court Governance and Operations. 3 Units
Term Typically Offered: Fall, Spring

Studies the state judiciary as both independent and interdependent with the legislative and executive branches of government at both the state and local level. The goal is to develop foundational knowledge of the historical and evolving governing and operational principles of the California court system.

PPA 292. Court Management. 3 Units
Prerequisite(s): PPA 291 or instructor permission.
Term Typically Offered: Fall, Spring

Provides training in key court administrative areas identified by such organizations as the National Association of Court Management (e.g., case flow management). Drawing from interdisciplinary literature on management theory, court case studies illustrate and provide context.

PPA 293. Court Leadership. 3 Units
Term Typically Offered: Fall, Spring

Examines leadership in the court environment as distinct from management. Investigates how leadership principles are exercised in pivotal areas of the courts such as: community relations, creativity and innovation, organizational change, workforce development, succession planning, strategic planning and re-engineering.

PPA 294. Emerging Issues in Judicial Administration. 3 Units
Term Typically Offered: Fall, Spring

Addresses pressing issues in judicial administration (e.g., courts in an electronic world, rising administrative workloads, greater number of self-represented litigants). Specific topics may change from year to year depending on the urgency of topics and nature of policy implications.

PPA 296E. Intergovernmental Relations. 3 Units
Term Typically Offered: Fall, Spring

A review of the origins of federalism in the U.S. and various theoretical approaches to understanding the relationships between various levels of government, including ways in which the different levels of government relate to one another both vertically and horizontally.

PPA 296M. Policy Prototyping. 3 Units
Prerequisite(s): At least one graduate course in political science, economics, and administration or management; no more than one of which may be taken as a co-requisite.
Term Typically Offered: Spring only

Applies policy and administrative prototyping to policy topics such as transportation and mobility, environment and resources, and education, workforce, and justice. The course uses the drafting and iteration of statutes, ordinances, and regulations, budget and personnel plans, organizational designs, and vote counts, along with sketching design thinking applications, to explore innovative strategies for addressing these policy topics, with an emphasis on implementation.

PPA 297A. Executive Fellows Introductory Seminar. 3 Units
Term Typically Offered: Fall, Spring

Seminar will enhance Executive Fellows' understanding of the state policy making and administrative process, policy implementation, ethical responsibilities of policy and administrative actors.
Note: Open only to students admitted to the Executive Fellowship Program.

PPA 297B. Executive Fellows Policy Seminar. 3 Units
Prerequisite(s): PPA 297A
Term Typically Offered: Fall, Spring

Seminar will extend the examination and analysis of the Executive branch of government to include alternative administrative practices, policy implementation strategies, and related administrative issues.
Note: Open only to students admitted to the Executive Fellowship Program.

PPA 298A. Judicial Administration Fellows Introductory Seminar. 3 Units
Term Typically Offered: Fall, Spring

Critical examination and analysis of the administrative operation of the California judicial system and its structures, policies and practices.
Note: Open only to students admitted to the Judicial Administration Fellows Program.

PPA 298B. Judicial Administration Fellows Policy Seminar. 3 Units
Term Typically Offered: Fall, Spring

Analyzes procedural issues and policy questions within the California judicial system with emphasis on the interdependence of the judicial, legislative and executive branches.
Note: Open only to students admitted to the Judicial Administration Fellows Program.

PPA 299. Special Problems. 1 - 3 Units
Prerequisite(s): Permission of faculty supervisor and the Department Chair.
Term Typically Offered: Fall, Spring

Supervised independent study in public policy and administration. Credit/No Credit

PPA 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree.

Punjabi (PUNJ)

PUNJ 1A. Elementary Punjabi. 4 Units
Term Typically Offered: Fall only

Introduction to Punjabi as spoken in India and Pakistan. Instruction will be in all four language skills: speaking, reading, listening and writing. In addition to getting a start in modern Punjabi, students will also learn about social aspects of the use of Punjabi.

PUNJ 1B. Elementary Punjabi. 4 Units
Prerequisite(s): PUNJ 1A.
General Education Area/Graduation Requirement: Humanities (Area C2), Foreign Language Graduation Requirement
Term Typically Offered: Spring only

Continuation of PUNJ 1A, with emphasis on reading, writing, listening and speaking. Punjabi culture and its reflection in the language is given continued attention.

Real Estate & Land Use (RELU)

RELU 199. Special Problems in Real Estate and Land Use Affairs. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading for students qualified to carry on independent work. Admission requires approval of the instructor and the Associate Dean. Petitions can be obtained from the Undergraduate Business Advising Center, Tahoe 1030.
Credit/No Credit

Recreation, Parks, and Tourism Administration (RPTA)

RPTA 1. Orientation to Recreation, Parks and Tourism Administration. 1 Unit
Prerequisite(s): RPTA majors only or instructor permission.
Term Typically Offered: Fall, Spring

Introduction to the RPTA major with an emphasis on degree options, major advising, referrals to GE for general advising, information about the RPTA undergraduate student association, other local, statewide and national professional associations, scholarship opportunities, the 600-hour volunteer/paid placement prior to the internship, an overview of the internship process and a discussion about producing work in core and non-core RPTA courses for the portfolio requirement.
Credit/No Credit

RPTA 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall only

A first-year seminar intended to provide students with an introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. This course is designed to help students develop academic success strategies and to improve information literacy, intercultural competence,and integrative thinking. The seminar also provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

RPTA 22. Happiness, Quality of Life, and Recreation Over the Lifespan. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

This course focuses on the interrelationship between happiness, positive leisure, recreation, one¿s personal growth and development, and quality of life. Emphasis is placed on the interplay between psychological, physical, and social factors that affect one¿s development and lifestyle choices. The course offers a survey of philosophical and scientific concepts linked to happiness and well-being as pertains to important components of the life experience ranging from conception to the end of life.

RPTA 30. Recreation, Parks and Tourism in Contemporary Society. 3 Units
Term Typically Offered: Fall, Spring

Orientation to the nature, scope and significance of the recreation, park and tourism in today's world. Analyzes philosophical and related elements essential to the effective delivery of leisure services, including the role of affective, cognitive and social motivations and outcomes.

RPTA 32. Leadership and Group Development. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

The purpose of this course is for students to develop an understanding of the theory and practice of leadership in various recreational organizational settings. The course will allow students the opportunity to develop leadership skills through lectures, self-assessments, experiential exercises, class discussions and case studies. Students are exposed to diverse theories and perspectives on leadership and are encouraged to apply critical thinking skills to develop their own working philosophy of the leadership that will serve them in their career contexts.

RPTA 33. Race, Class Gender and Leisure. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examination of the role of leisure in the social construction of markers of identity across gender, race, class, sexuality and disability; and leisure's role in the construction of institutional oppressions such as racism, sexism, homophobia and discrimination based on class and disability.

RPTA 34. The Outdoor Recreation Experience. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Encourages the student to identify and demonstrate an understanding of the value, meaning and benefits of outdoor recreation experiences and to explore a variety of outdoor adventure experiences. Outing skills such as trip planning, meal preparation, camp selection and set-up, equipment and clothing, map and compass, hygiene and first aid will be discussed and practiced. Students will also develop an awareness of and appreciation for minimum impact wilderness travel techniques and environmental responsibility and ethics.

RPTA 42. Recreation and Parks: Natural, Cultural, and Heritage Resources. 3 Units
Prerequisite(s): RPTA majors and minors only, or instructor permission.
Term Typically Offered: Fall, Spring

Examines the use of natural, cultural, and heritage resources for recreation, tourism and leisure purposes in a variety of settings and under the auspices of various agencies. Includes study of various protected areas and facilities, including parks, forests, museums, and cultural sites and how they are influenced by social trends, conflicting use demands, agency responsibilities, environmental considerations, and fiscal implications.

RPTA 50. Introduction to Rock Climbing. 1 Unit
Term Typically Offered: Fall, Spring

Designed to provide students with the basic knowledge, skills, and techniques of modern rock climbing. Students will learn skills pertaining to indoor top-rope and lead climbing, indoor and outdoor bouldering, and outdoor sport climbing. Students will also learn and discuss outdoor ethics and environmental impact in relation to rock climbing.

RPTA 60. Budgeting for Recreation Services. 3 Units
Prerequisite(s): RPTA major and minors only, or instructor permission.
Term Typically Offered: Fall only

Introduces students to budget topics in Recreation, Parks, and Tourism, through the use of theoretical readings, case studies, and a series of professional speakers. Students will gain a broad understanding of the planning and implementation of the budget process for a leisure service agency, primarily those that are non-profit or tax-supported.
Note: Only one of RPTA 60 or RPTA 61 may be counted for credit

RPTA 61. Cost Management for Hospitality. 3 Units
Prerequisite(s): RPTA major and minors only, or instructor permission.
Term Typically Offered: Spring only

Introduces students to a broad range of topics related to cost management in hospitality, and teaches students to analyze numerical data for decision-making in hospitality operations. Considers systems, techniques, information types, and presentational forms commonly used by hospitality managers. Additional topics include, financial statements and ratio analysis, various pricing methods, types of costs in hospitality and service industries, cost-volume-profit techniques, and the application of standard cost controls used in hospitality.
Note: Only one of RPTA 60 or RPTA 61 may be counted for credit

RPTA 62. Introduction to Recreation Law. 3 Units
Prerequisite(s): RPTA majors and minors only, or instructor permission.
Term Typically Offered: Fall, Spring

Introduces students to legal topics and regulations in Recreation, Parks and Tourism industries. Students are given a practical knowledge of the law, operation of the legal system, contracts, and legal applications to agency management, human rights and personnel. Course uses text book readings, case law from actual published decisions in the field of Recreation law, courtroom visitations, and professional speakers.

RPTA 80. Introduction to Hospitality and Tourism. 3 Units
Term Typically Offered: Fall only

Hospitality and tourism are vitally important to California's image and economy, and these two related industries are among the world's top employment providers. This course provides an introductory overview of the broad hospitality and tourism industries, covering several topics, including growth and development, trends and current concerns, and professional employment sectors.

RPTA 82. Introduction to Hospitality and Tourism Law. 3 Units
Term Typically Offered: Fall, Spring

This course provides insight into the laws and regulations governing the hospitality and tourism industries with an emphasis on labor relations and human resources best practices. The course addresses the general concepts of tort, contracts, liability, risk management, employment practices, licensing, and insurance needs. The course also explores the legal issues that today's industry professionals face such as privacy, labor laws, the common law system for innkeepers and newer hospitality products in the shared economy such as AirBnB or VRBO. Field Trip(s). Field trip(s) may be required.

RPTA 84. Hotel and Lodging Operations. 3 Units
Term Typically Offered: Fall, Spring

This course is designed to provide knowledge of hotel and lodging operations. Students will acquire an understanding of how a variety of lodging types, specifically hotels, operate by detailed examination of the departments common to most lodging properties, including the front office, sales and marketing, housekeeping, maintenance, and others. Additionally, topics relevant to operations like green initiatives and revenue optimization will be discussed in this course. Field Trip(s). Field trip(s) may be required.

RPTA 100. Recreation and Leisure Lifestyle Development. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Broad general overview of the recreation and leisure movement followed by a specific examination of changing leisure lifestyles and their impact on the individual's choice of recreation and leisure patterns. Also examine the impact that the choice of leisure lifestyles has on other aspects of the individual's life as well as the negative effects of restrictive or inadequate leisure involvement.

RPTA 101. Senior Seminar. 1 Unit
Prerequisite(s): RPTA 1 and senior status
Term Typically Offered: Fall, Spring

Students will focus on identifying potential internships, refining resumes and writing cover letters for securing internships. Complete their portfolio requirement for graduation and learn about the alumni association for RPTA graduates.
Credit/No Credit

RPTA 102. Recreation Therapy Professional Practice. 1 Unit
Prerequisite(s): RPTA 1, RPTA 106, RPTA 115, RPTA 116, RPTA 117, RPTA 118 and senior level.
Corequisite(s): RPTA 115, RPTA 116, and/or RPTA 118 may be taken concurrently.
Term Typically Offered: Fall, Spring

This senior level course is intended to build upon a student's previous coursework in recreation therapy, and link the theoretical foundation with day-today practical applications. Students will fine-tune skills and interests in recreation therapy, learn methods for effective networking, and develop interviewing techniques in order to identify appropriate internships and employment opportunities.
Credit/No Credit

RPTA 105. Management in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 30 or instructor permission
Term Typically Offered: Fall, Spring

Analyzes the functions of managers including planning, organizing, staffing, leading and controlling. Also examines basic principles, techniques and tools associated with these functions. Consideration of internal and external environments which influence the managerial process and the manager's role in various areas of enterprise activity.

RPTA 106. Introduction to Inclusive Recreation and Recreation Therapy. 3 Units
Prerequisite(s): RPTA majors and minors only or instructor permission.
Term Typically Offered: Fall, Spring

Addresses the etiology and nature of common disabling conditions and examines issues of leisure participation and inclusion for underrepresented populations. Topics include: attitudinal barriers, advocacy, normalization, universal design, activity analysis and modification, and legislation. Emphasis on leadership, supervision and organizational development of inclusive and recreation therapy programs.

RPTA 107. Grant Writing for Leisure Organizations. 3 Units
Prerequisite(s): Senior status or instructor permission.
Term Typically Offered: Spring only

A detailed examination of grant writing as a means of augmenting agency revenues for specific recreation projects, programs and research. An in-depth assessment of techniques used to source funding opportunities relevant to recreation and leisure agencies. A review of budget preparation and grant management.

RPTA 109. Computer Applications in Recreation, Parks and Tourism. 2 Units
Term Typically Offered: Fall, Spring

Introduces the student to the use of micro-computers in recreation, park and leisure services enterprises. Emphasis will be on the application of word processing, data bases, spread sheets and graphics to the work of professionals within the field. Consideration will also be given to telecommunications, interactive video and desktop publishing.

RPTA 110. Research and Evaluation in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 1 and RPTA 30.
Term Typically Offered: Fall, Spring

Provides students with tools to analyze leisure behavior, interests and the motivational basis of leisure as they apply to the field of recreation and leisure services. Emphasizes applied research techniques including qualitative, descriptive and analytical methods, and program evaluation.

RPTA 115. Recreation Therapy Assessment and Documentation. 3 Units
Prerequisite(s): CHDV 30, PSYC 168, RPTA 30, RPTA 106 and RPTA 117; or instructor permission.
Term Typically Offered: Fall, Spring

Assessment procedures and instruments used to assure competence in assessment of client function in leisure. Documentation, assessment, regulations in different settings (i.e., community hospital, and clinical settings), protocols and development of individual treatment plans. Students are exposed to the Recreation Therapy process (APIE) in a variety of clinical and community settings.

RPTA 116. Recreation Therapy Principles and Practices and the Recreation Therapy Process. 3 Units
Prerequisite(s): CHDV 30, RPTA 30, RPTA 106 and RPTA 117; or instructor permission. RPTA 117 may be taken concurrently.
Term Typically Offered: Fall, Spring

Philosophy and principles underlying the work performed by the recreation therapist are studied including assessment, individual program planning, interpersonal interaction skills, and working with families.

RPTA 117. Recreation Therapy and Contemporary Aspects of Disability. 3 Units
Prerequisite(s): RPTA 106; RPTA 106 may be taken concurrently.
Term Typically Offered: Fall, Spring

In-depth exploration of a variety of disabilities and diseases, including physical disabilities, developmental disabilities, intellectual disabilities, mental health, hearing and vision impairments, and disabilities related to aging. Content will focus on etiology, prognosis, symptomatic conditions, prescription drugs, and recreation therapy interventions. Medical terminology will be covered.

RPTA 118. Recreation Therapy Facilitation Techniques. 3 Units
Prerequisite(s): CHDV 30, PSYC 168, RPTA 30, RPTA 106 and RPTA 117; or instructor permission.
Term Typically Offered: Fall, Spring

Covers basic concepts, methods and techniques associated with the practice of recreation therapy. Students will understand and apply the recreation therapy process through intervention and facilitation methods that are critical to helping clients in health and human service settings. The goal is to assist students in developing the ability to use recreation, leisure and play in recreation therapy programs as interventions in the treatment process.

RPTA 119. Recreation Therapy Management and Advancement of the Profession. 3 Units
Prerequisite(s): BIO 25, CHDV 30, PSYC 168, RPTA105, RPTA 106, RPTA 115, RPTA 116, RPTA 117 and RPTA 118; or instructor permission.
Term Typically Offered: Fall, Spring

Examination of existing recreation programs in clinical settings (acute care hospitals, rehabilitation centers, state hospitals, skilled nursing facilities, intermediate care facilities, etc.); review of standards and regulations pertaining to recreation programs, development of recreation therapy programs, review of the roles of practitioners in related disciplines. Review of intervention techniques, program organization, management, and advancement of the profession and professional ethics.

RPTA 120. Leisure Education. 3 Units
Prerequisite(s): RPTA 106.
Term Typically Offered: Fall, Spring

History, scope and process of leisure education. A survey of guidance theories and procedures, including assessment techniques, program development, implementation and evaluations. The role of leisure education in diverse leisure delivery systems and with diverse populations. Legal, ethical, and professional aspects of leisure education.

RPTA 122. Perspectives On Leisure. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Understanding Personal Development (E)
Term Typically Offered: Fall, Spring, Summer

Basic philosophical, historical, psychological and scientific foundations and developments in leisure and recreation theory; review of the cultural forces, institutions and theories that affect individuals and society.

RPTA 125. Leisure, the Individual, and Contemporary Society. 3 Units
Prerequisite(s): Students must have passed the WPE or Eng 109W/E prior to enrollment in RPTA 125
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Provides an understanding of the social science of leisure in contemporary society by examining the philosophical, socio-cultural, ethical, economic, behavioral, political and historical dimensions of leisure; exploration of the interrelationship between individuals, groups, and society in the context of leisure. Course also examines beliefs, values, and social structures, and compares and contrasts them with individual and social influences such as race, ethnicity, gender, gender expression, sexuality, age, economic status and ability.

RPTA 128. Recreation Services for Diverse, Underserved and Underrepresented Populations. 3 Units
Term Typically Offered: Spring only

Examines how recreation service providers work with diverse segments of the community. Class will examine a variety of populations that have been underserved and that may be at risk. Examines the impact of factors such as racism, sexism, classism, ageism, ableism and heterosexism that affect access to programs and services for diverse populations.

RPTA 129. Youth Development in Recreation, Parks & Tourism. 3 Units
Term Typically Offered: Fall, Spring

This course will focus on examining contemporary issues and trends related to young people and youth development in recreation, parks and tourism. Students will learn about youth development frameworks and how to apply those frameworks to recreation-based settings. Students will learn about the importance of engaging youth in the process of program planning and development.

RPTA 130. Community Sport Programming. 3 Units
This course emphasizes sport as a program component of community-based recreation services in both public and private settings. Students will develop skills related to successful sport program development, implementation and evaluation, through in-class lecture, site visits, and student developed projects. Additional topics will include promotion, funding, staffing, purchasing, and maintenance as related to managing sport programs.

RPTA 131. Morale Welfare and Recreation (MWR): Military Recreation Services. 3 Units
Term Typically Offered: Fall, Spring

Students develop an understanding of the administration and programming of Morale, Welfare and Recreation Services for individuals serving in the military and their families. Recreation facilities and programs for all branches of the military, including the US Army, US Navy, US Marines, US Air Force and US Coast Guard, are covered. The course utilizes lectures, experiential exercises, class discussions and onsite visits to military installations.

RPTA 132. Campus Recreation. 3 Units
Term Typically Offered: Fall, Spring

This course introduces students to campus recreation programs. Students will be introduced to theories of student development in these recreational settings; the organizational context and history of recreational programs within a college setting; and the range of programming, facilities, and managerial duties within campus and base recreation. This will provide a great starting point for students preparing for a profession on campus, institutional and/or military recreation, or students wanting to broaden their knowledge in the overall field.

RPTA 136. Program and Event Planning in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 32.
Term Typically Offered: Fall, Spring

The program/event planning process will be described and explained. Relevant principles and methods will be identified. Students will develop a program/event plan for a local organization. Field trips may be required. Field trip(s) may be required.

RPTA 137. Community Organization. 3 Units
Term Typically Offered: Fall, Spring

Study of institutions and leisure service systems within the community, and the dynamics of community organization practices and actions. The role of the recreation and leisure service practitioner in bringing about community changes. Defining and promoting citizen participation through advisory council membership, survey applications, and public hearing attendance.

RPTA 139. Conference and Meeting Planning. 3 Units
Prerequisite(s): Restricted to declared RPTA majors and minors or instructor permission
Term Typically Offered: Fall only

Analyzes this varied, growth industry. Considers the range of conferences and meetings, from small corporate retreats to international conventions. Topics include: the scope of the industry, the role of convention centers, hotel and resort based meeting facilities, organizations that hold meetings and the nature of those meetings, meeting planning and the role of the professional planner and industry related careers. Field trips may be required.
Field trip(s) may be required.

RPTA 148. Experiential Education in Outdoor Recreation Settings. 3 Units

Term Typically Offered: Spring only

Exposes the students to theoretical and philosophical concepts of experiential education and provides a means through which they can put theory into practice in outdoor recreation settings. Using methods such as demonstrations, observation, presentations, and discussions, the course will explore the history and current trends of experience-based learning.

RPTA 149. Developing and Programming Adventure Experiences. 3 Units

Term Typically Offered: Fall only

Provides students with the working knowledge needed to produce enriching and fulfilling adventure leisure experiences. In order to most effectively aid and assist others in the process of maximizing their leisure experiences, the student of leisure must first know how to maximize these experiences for and within themselves. Therefore, students will be participating in leisure adventure experiences so they can be as effective as possible when developing and programming leisure adventure experience opportunities for others.

RPTA 150. Ecology Of Resource Areas. 3 Units

Term Typically Offered: Fall, Spring

Study of the fundamentals of ecology, silvics, soil science and manipulations of an ecosystem with emphasis on the whole biota as it relates to outdoor recreation areas. Designed to provide an understanding of the scientific basis for and the operational rationale of manipulation of natural resources for a variety of recreation uses.

RPTA 151. Visitor Management in Recreation Areas. 3 Units

Term Typically Offered: Fall, Spring

Visitor safety in recreation areas as it relates to the role and functions of management. Emphasis is given to principles and current legislation in hazard reduction, deviant behavior, liability, law enforcement, and other related topics.

RPTA 152. Law Enforcement for Forest and Park Rangers. 3 Units

Term Typically Offered: Spring only

State, county and federal park rangers and wardens differ from other peace officers in that they are trained to protect visitors and cultural and natural resources on our public lands. This course offers a survey of topics related to the Peace Officer level of rangers across America's diverse public land systems, with an emphasis on career opportunities in park, forest, and wildlife management.

RPTA 153. Environmental Interpretation. 3 Units

Term Typically Offered: Fall, Spring

Connecting visitors to natural, cultural, and historic resources is the primary focus of this course. Theories, principles and techniques are covered focusing on interpreting park and protected area values to people during their leisure. Personal and non-personal communication techniques will be practiced. Field sites in and around the Sacramento region will be visited to understand the diverse nature of the practice of interpretation. Designed for ranger naturalists, park interpretive staff, teachers, camp leaders, outdoor educators, and recreation program staff.

RPTA 154. Management of Recreation Facilities. 3 Units

Term Typically Offered: Fall only

An introduction to aspects of recreation facility administration for several facility types, including campus recreation facilities, health clubs, community centers, park facilities and aquatic centers. Course topics include administration techniques related to staffing and outsourcing, the roles of the facility manager, analyzing financing sources, best practices in facility maintenance, and issues related to facility design. The course utilizes class discussions, guest speakers and facility site visitations on and off campus.

RPTA 164. Leadership and Fundraising for Non-profit Organizations. 3 Units

Term Typically Offered: Spring only

Introduces students to principles and concepts of nonprofit leadership. This course will explore and provide an understanding of historical and philosophical foundations of nonprofit organizations; board/committee development and operation; and volunteer management. Students will also learn about fundraising methods and strategies. The course will consist of lecture, readings, discussion, guest speakers, nonprofit agency visitations, active learning exercises, and a community-learning component.

RPTA 165. Volunteer Management in Recreation, Parks and Tourism. 3 Units

Term Typically Offered: Fall only

This course will focus on examining issues and trends related to volunteer management in recreation, parks and tourism-related organizations. Students will begin to understand the role of volunteerism and develop the skills necessary for effective volunteer management through: assessing program needs for volunteers, screening, orientation, training, placement, supervision, motivation, retention and celebration of volunteers.

RPTA 166. Administration in Recreation, Parks and Tourism. 3 Units

Prerequisite(s): RPTA 105.

Term Typically Offered: Fall, Spring

Designed to provide the student with various in-depth perspectives regarding the use of management/administrative process in recreation, parks and tourism.

RPTA 167. Professional Organization Leadership. 3 Units

Prerequisite(s): RPTA 30, RPTA 32, and RPTA 105, or instructor permission

Term Typically Offered: Fall, Spring

This course is designed to introduce students to the historical and philosophical foundations of professionalism, and provide the necessary conceptual and technical competencies to organize and lead a successful professional organization/association. Political, legal and ethical issues will be discussed as well as the functions and roles of professional organizations/associations. The relationship between professionalism and advocacy will be examined.

RPTA 178. Human Resources Management in the Hospitality Industry. 3 Units
Prerequisite(s): RPTA 80 or Instructor Permission.
Term Typically Offered: Spring only

Comprehensive study of personnel management in today's hospitality profession, familiarizing students with many of the functions related to recruiting, selecting, orienting, training, and retaining outstanding lodging industry staff. Additionally, the course familiarizes students with the effects of rising labor costs, increasing competition for quality staff, changing employees attitudes, evolving guest expectations, and a proliferation of new laws that impact human resources policies and activities.

RPTA 179. Profit and Revenue Management for Hospitality. 3 Units
Prerequisite(s): RPTA 61 or Instructor Permission.
Term Typically Offered: Spring only

Revenue management is critical to the hospitality industry due to the perishable nature of a service based product. This course introduces students to topics related to revenue management in hospitality and teaches students techniques to manage revenue in a dynamic hospitality environment ¿ all with the goal of managing profits for the company. Capacity management, demand and revenue forecasting, discounting, overbooking practices, channel management, and pricing execution for the hospitality operations are discussed.

RPTA 180. Foundations of Commercial Recreation. 3 Units
Term Typically Offered: Fall only

Overview of the historical and philosophical foundations of the commercial recreation field. Identification of providers of commercial recreation goods and services. Analyzes current functions and trends in the operation of commercial leisure enterprises.

RPTA 182. Travel And Tourism. 3 Units
Term Typically Offered: Fall only

Examination of the history, significance and nature of travel and tourism in the world with emphasis on the U.S. Analyzes economic, cultural and social factors underlying development and growth of travel and tourism and a review of related research. Identification and description of travel and tourism service providers including their organization, financing and management practices. Prerquisite: Declared RPTA majors and minors only or instructor permission

RPTA 183. Marketing Recreation Services. 3 Units
Prerequisite(s): RPTA 30 or instructor permission
Term Typically Offered: Fall, Spring

Fields of recreation (including therapeutic, commercial, municipal, etc.), tourism and hospitality, while diverse, all offer products that are primarily intangible. The management and marketing of such service products can differ profoundly from those of goods products (often the focus of traditional business programs). Addresses the nature of the service product and services marketing in the people intensive, experiential world of recreation.

RPTA 184. Hospitality Administration. 3 Units
Prerequisite(s): Restricted to declared RPTA major and minors or instructor permission
Term Typically Offered: Spring only

Introduces students to resorts and hotels and their position within the tourism and hospitality industries. The scope of the hospitality industry and various issues concerning the successful development of a hospitality product will be discussed. Prepares students to engage in an internship or employment in this or a related industry, including restaurants and retail. It also helps these and other students to reinforce concepts and skills learned elsewhere by providing concrete, real-world examples of marketing and management methods.

RPTA 185. Advanced Seminar in Commercial Recreation Administration. 3 Units
Prerequisite(s): RPTA 180, RPTA 105 and RPTA 183; RPTA 183 may be taken concurrently; or instructor permission.
Term Typically Offered: Fall, Spring

In-depth analysis of the management of recreational business on a for-profit basis. Focuses on advanced topics, analytical skills, and problem solving in the management arena.

RPTA 187. Gastronomic Tourism. 3 Units
Prerequisite(s): RPTA 80 or Instructor Permission.
Term Typically Offered: Spring only

Tourists are increasingly motivated to travel for food and drink. Visiting the location and touring the production facilities is also important. This course provides an overview of the global culinary and gastronomic tourism industry, focusing on the ability of a destination to market itself (both people and place) through food. The various social and cultural contexts in which gastronomic tourism takes place are discussed as well as positive and negative impacts of global and local gastronomic tourism.

RPTA 188. Sacramento Region Craft Beer Industry Tourism. 3 Units
Prerequisite(s): Declared RPTA major or minor, or instructor permission.
Term Typically Offered: Fall only

Introduction to visitation and tourism related to California's craft beer industry, specifically in the Sacramento region. This course will provide students with a basic knowledge of craft beer as one of several local products that combine to create a unique agritourism selling proposition for Sacramento. Tourism-related products (beer festivals and contests, beer trails, beer bikes, and beer apps), hospitality (brewery tasting rooms and beer retail), as well as beer laws, and beer pairings will also be discussed.
Note: Must be 21 or over to enroll in the course. Field Trip(s).

Field trip(s) may be required.

RPTA 189. California Wine and Agri-Tourism. 3 Units
Prerequisite(s): Restricted to declared RPTA majors and minors or instructor permission
Term Typically Offered: Spring only

Introduction to the wine tourism and agri-tourism industries, specifically in the region surrounding Sacramento. Emphasis on wine regions, wineries as event stages, wine mythology and wine in popular culture. Additionally, the course will cover the role of agricultural festivals, related agri-tourism products, slow-food, specialty crop tourism, winery and farm retail, culinary destinations, wine list creation, ag natural tourism products and the role of agri-tourism as part of Sacramento's cultural identity.

RPTA 191. Service Learning Option for Recreation, Parks and Tourism Administration Courses. 1 Unit
Term Typically Offered: Fall, Spring

Individual goals, activities, and academic requirements for community service work and the service-learning credit option are outlined in a Service Learning Option/Contract agreed upon and signed by the student, instructor, and agency sponsor. Enrolled students are required to attend mid-semester and final learning assessment workshops and to complete written evaluations. Credit for the course awarded only if contract and course requirements are completed.
Credit/No Credit

RPTA 195B. Partial Internship: Recreation and Park Management. 4 Units
Prerequisite(s): RPTA 1, RPTA 30, RPTA 32, RPTA 42, RPTA 101, RPTA 105, RPTA 106, RPTA 109, RPTA 110, RPTA 136 and approval of academic advisor and internship coordinator.
Term Typically Offered: Fall, Spring

Supervised part-time or short-term internship in a recreation, park or tourism organization or business. Supervision is provided by faculty and also by personnel at the host site.
Note: Refer to the RPTA Internship Manual for procedures and requirements.

RPTA 195C. Partial Internship: Recreation and Park Management. 6 Units
Prerequisite(s): RPTA 1, RPTA 30, RPTA 32, RPTA 42, RPTA 101, RPTA 105, RPTA 106, RPTA 109, RPTA 110, RPTA 136 and approval of academic advisor and internship coordinator.
Term Typically Offered: Fall, Spring

Supervised part-time or short-term internship in a recreation, park or tourism organization or business. Supervision is provided by faculty and also by personnel at the host site.
Note: Refer to the RPTA Internship Manual for procedures and requirements.

RPTA 195D. Recreation Therapy Internship. 10 - 15 Units
Prerequisite(s): BIO 25, CHDV 30, PSYC 168, RPTA 1, RPTA 30, RPTA 102, RPTA 106, RPTA 110, RPTA 115, RPTA 116, RPTA 117, RPTA 118, RPTA 119, and RPTA 136; completion of required administrative paperwork in the semester prior to internship, approval of major advisor.
Term Typically Offered: Fall, Spring

Supervised full-time therapeutic internship in a recreation, park or tourism organization or business. Supervision is provided by faculty and also by certified personnel at the host site. Meets the professional certification requirements at the national or state levels.
Note: Refer to the RPTA Internship Manual for procedures and requirements.

RPTA 195E. Internship: Recreation and Park Management. 10 - 15 Units
Prerequisite(s): RPTA 1, RPTA 30, RPTA 32, RPTA 42, RPTA 101, RPTA 105, RPTA 106, RPTA 109, RPTA 110, RPTA 136 and approval of academic advisor and internship coordinator.
Term Typically Offered: Fall, Spring

Supervised, full-time internship in a recreation, park or tourism organization or business. Supervision is provided by faculty and also by personnel at the host site.
Note: Refer to the RPTA Internship Manual for procedures and requirements.

RPTA 195G. Partial Internship: Hospitality and Tourism Management. 4 - 6 Units
Prerequisite(s): RPTA 1, RPTA 30, RPTA 61, RPTA 80, RPTA 82, RPTA 101, RPTA 105, RPTA 106, RPTA 110, RPTA 183, and approval of academic advisor.
Term Typically Offered: Fall, Spring, Summer

Supervised, part-time work experience in hospitality or tourism designed to give students an increased understanding of the nature and scope of industry operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Refer to the HTM Internship Manual for procedures and requirements.

RPTA 195H. Internship: Hospitality and Tourism Management. 10 - 15 Units
Prerequisite(s): RPTA 1, RPTA 30, RPTA 61, RPTA 80, RPTA 82, RPTA 101, RPTA 105, RPTA 106, RPTA 110, RPTA 183, and approval of academic advisor.
Term Typically Offered: Fall, Spring, Summer

Supervised, full-time work experience in hospitality or tourism designed to give students an increased understanding of the nature and scope of industry operations. Supervision is provided by the faculty and the cooperating agencies.
Note: Refer to the HTM Internship Manual for procedures and requirements.

RPTA 196E. Introduction to Posttraumatic Growth. 3 Units
Term Typically Offered: Fall, Spring

Traumatic life events affect individuals, families and communities. This course is designed to assist professionals working with survivors of traumatic events. Posttraumatic growth (PTG) is a positive focus, viewed from the perspective of the individual, secondary survivor, and the community. Clinical application illuminating a pathway toward PTG is also studied and discussed. The course incorporates current research, films, books, poems, plays, and interviews with survivors, will be used to profile individuals, families, communities, and organizations.

RPTA 196U. Advanced Leadership in Service Organizations. 3 Units
Prerequisite(s): RPTA 30 and RPTA 32, graduate student status, or instructor permission.
Term Typically Offered: Fall, Spring, Summer

To attain an overview of the leadership roles and responsibilities of the field of Recreation, Park & Tourism Administration. Gain a philosophical and contextual overview of leadership in the leisure services profession. Examination of various leadership techniques within the following recreation-based settings including Outdoor & Natural Resources, Community Recreation - Municipal and Non-Profit Organization, Hospitality and Tourism, and Recreational Therapy.

RPTA 198. Co-Curricular Activities. 1 - 3 Units
Prerequisite(s): Approval of an instructor and the Department chair.
Term Typically Offered: Fall, Spring

Co-curricular activities related to the subject matter and professional concerns of Recreation and Leisure Studies. For example, students may earn credit by participating as a tutor or discussion leader for recreation and leisure studies classes or a teacher or leader in programs offered by community organizations.
Note: The course may be repeated three times for a maximum total of 3 units. Students can enroll for a class that counts as 1, 2 or 3 units. No more than 3 units of RPTA 198 may be used to meet the major requirements.

Credit/No Credit

RPTA 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of an instructor and the Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work. Can be repeated six times for a maximum total of 6 units. Students can enroll for a class that counts as 1, 2 or 3 units. No more than 6 units of RPTA 198 and RPTA 199 in combination may be used to meet major requirements.

Credit/No Credit

RPTA 200. Foundations of Leisure Concepts and Application. 3 Units
Term Typically Offered: Fall, Spring

Provides a comprehensive awareness of the historical, philosophical, psychological, experiential, and behavioral foundations of leisure. Global leisure perspectives examined in relationship to cultural diversity, current trends, future perspective, and economic implications. The art and science of providing fulfilling leisure experiences through private entrepreneurial recreations and public delivery systems explored.

RPTA 200A. Orientation to Graduate Studies in RPTA. 1 Unit
Prerequisite(s): Restricted to MS in Recreation Administration majors.
Term Typically Offered: Fall only

Course covers several topics related to the MS degree program in Recreation, Parks & Tourism Administration. Students will understand requirements and expectations of the program, develop a tentative degree plan and timeline, and learn about different options for the Culminating Experience. Course will review several other aspects important to graduate students, including deadlines and paperwork, library and research resources, Office of Graduate Studies resources, scholarships, life-school balance, graduate school terminology, and financial aid and funding resources, etc.
Credit/No Credit

RPTA 201. Advanced Studies in Leisure, Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 200
Term Typically Offered: Fall, Spring

The purpose of this course is to move students beyond conceptual foundations of leisure, recreation, parks and tourism administration to more theoretically advanced aspects of the field. In this course, students will pursue an in-depth exploration of the theories and research related to leisure, recreation, parks and tourism.

RPTA 202. Policies, Issues, and Problems in Recreation, Parks and Tourism. 3 Units
Term Typically Offered: Fall, Spring

Major environmental and recreational issues and problems affecting the recreation, parks and tourism field are discussed, analyzed, and evaluated. Ramifications involving policy making and planning processes of major federal, state, and local agencies involved with recreation, parks and tourism delivery services are also covered.

RPTA 203. Advanced Administration in Recreation, Parks and Tourism. 3 Units
Term Typically Offered: Fall, Spring

Examination of contemporary resources, techniques, and tools available to administrators in various types of recreation, parks and tourism delivery systems.

RPTA 204. Advanced Research Methods in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): RPTA 200, RPTA 202, and graduate advisor approval.
Term Typically Offered: Fall, Spring

Provides an analysis of major research methods used in recreation, parks and tourism administration. Addresses basic and applied research orientations, research designs, research proposals, data collection tools and methods, data analysis, and reporting of research findings.

RPTA 206. Liability and Risk Management in Recreation, Parks and Tourism. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

In-depth analysis of the principles of legal liability as they pertain to recreation, parks and tourism administration. An examination of the pervasive nature of risk as it pertains to the provision of recreation, parks and tourism programs and opportunities, and the concepts and methods of risk management. Includes field trips, mock trials or other related activities.
Field trip(s) may be required.

RPTA 207. Grant Writing for Recreation, Parks and Tourism Organizations. 3 Units
Prerequisite(s): Graduate status or instructor permission.
Term Typically Offered: Fall, Spring

A detailed examination of grant writing as a means of augmenting agency revenues for specific recreation projects, programs and research. An in-depth assessment of techniques used to source funding opportunities relevant to recreation and leisure agencies. A review of budget preparation and grant management.
Note: Students may not take both RPTA 107 and RPTA 207 for credit.

RPTA 209. Seminar in Advanced Leisure Education. 3 Units
Term Typically Offered: Fall, Spring

Surveys current and historical perspectives of leisure education from a multicultural and life span viewpoint. Current modes of service delivery will be discussed as they relate to leisure theories. Methods of leisure education provision in diverse settings from school-park collaboratives, retirement and rehabilitation centers, to corporate wellness will be investigated. Development, implementation and management of viable leisure education services will be covered as well presentation, training and consultation skills.

RPTA 295. Practicum. 3 - 6 Units
Prerequisite(s): Approval of major advisor.
Term Typically Offered: Fall, Spring

Graduate internship experiences in a practical setting.
Note: Open only to graduate students. Can be repeated two times for a maximum total of 6 units. Students can enroll for a class that counts as 3, 4, 5 or 6 units. No more than 6 units of RPTA 295 and RPTA 299 in combination may be used to meet degree requirements.

Credit/No Credit

RPTA 299. Individual Study. 1 - 6 Units
Prerequisite(s): Approved petition filed in the department office.
Term Typically Offered: Fall, Spring

Individual project, problem, practical study, survey, and/or directed reading on the graduate level.
Note: Can be repeated six times for a maximum total of 6 units. Students can enroll for a class that counts as 1, 2, 3, 4, 5 or 6 units. No more than six units of RPTA 295 and RPTA 299 in combination may be used to meet major requirements.

Credit/No Credit

RPTA 500A. Culminating Experience: Thesis. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of graduate coordinator.
Term Typically Offered: Fall, Spring

Successful completion of a thesis approved for the Master's degree. Student must have approval from first reader.
Credit/No Credit

RPTA 500B. Culminating Experience: Project. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of graduate coordinator.
Term Typically Offered: Fall, Spring

Successful completion of a project approved for Master's degree. Student must have approval from the first reader.
Credit/No Credit

RPTA 500C. Culminating Experience: Comprehensive Exam. 1 - 3 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Successful completion of a comprehensive examination approved for Master's degree.
Credit/No Credit

ROTC - Aerospace Studies (AERO)

AERO 1A. Heritage and Values of the United States Air Force I. 1 Unit
Term Typically Offered: Fall, Spring

Orientation to the Air Force and AFROTC. This is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, organizations of the Air Force, and benefits of Air Force membership. Students will be required to complete an oral and written project.

AERO 1B. Heritage and Values of the United States Air Force II. 1 Unit
Term Typically Offered: Fall, Spring

Continuation of AERO 1A: completes students' orientation to the Air Force. Specific topics include evolution of Airpower, Air Force structure, and social media and the Air Force. Students will be required to complete an oral and written project.

AERO 21A. Team Leadership and Fundamentals I. 1 Unit
Term Typically Offered: Fall, Spring

Focuses on laying the foundation for teams and leadership in the Air Force. Topics include skills that will allow cadets to improve their leadership on a personal level and within a team. Cadets will experience initial field training preparation. Communication skills will be emphasized and include: public speaking, writing, and class participation.

AERO 21B. Team Leadership and Fundamentals II. 1 Unit
Term Typically Offered: Fall, Spring

Continuation of AERO 21A. The purpose of this course is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadets to AFROTC offer candidates. Topics include conflict management, human relations, building teams. Communication skills will be emphasized and include: speaking, writing, and class participation.

AERO 99. Special Problems. 1 - 4 Units
Term Typically Offered: Fall, Spring

Academic study and evaluation in specified topics associated with aerospace development, technology, and doctrine.
Note: Open only to students who appear competent to complete assigned work and who meet prerequisites established by the Department of Aerospace Studies. Approval in writing by the Department Chair required.

Credit/No Credit

AERO 135A. Leading People and Effective Communication I. 3 Units
Term Typically Offered: Fall, Spring

This course teaches cadets advanced skills and knowledge in management and leadership. Also a survey of selected concepts, principles, and theories on decision making, change management, effective supervision and Air Force diversity issues. Students will be given the opportunity to improve speaking and writing skills.

AERO 135B. Leading People and Effective Communication II. 3 Units
Term Typically Offered: Fall, Spring

Continuation of AERO 135A. Survey of selected concepts, principles, and theories on negotiating in teams, bias, creating a vision, public affairs, and professionalism. Students will be given the opportunity to improve speaking and writing skills.

AERO 145A. National Security and Preparation for Active Duty I. 3 Units

Term Typically Offered: Fall, Spring

Provides an overview of the role of the military in our national security policy and processes. It includes an analysis of the roles of the three branches of government as they relate to national security; organization of the Air Force as well as other branches of the military; an overview of military ethics; how the Air Force deploys; and a discussion of global current events which impact our national security. Students are expected to participate in class discussions/complete written/oral presentations.

AERO 145B. National Security and Preparation for Active Duty II. 3 Units

Term Typically Offered: Fall, Spring

Continuation of AERO 145A. Presentation of critical issues facing today's military professionals. A wide variety of topics are discussed including: the military legal system; the laws of armed conflict; security issues; personal finance; professional/unprofessional relationships; information warfare; and issues pertinent to the first assignment after commissioning into the Air Force. Students will be expected to participate in class discussions and complete a written and oral presentation.

AERO 199. Special Problems. 1 - 4 Units

Term Typically Offered: Fall, Spring

Academic study and evaluation in specified topics associated with aerospace development, technology, and doctrine.
Note: Open only to those students who appear competent to complete assigned work and who meet prerequisites established by the Department of Aerospace Studies. Approval in writing by the Department Chair required.

Credit/No Credit

Russian (RUSS)

RUSS 1A. Elementary Russian. 5 Units

Term Typically Offered: Fall only

Russian language beginning course with primary emphasis on the development of communication skills. Russian life and culture are introduced through readings and video/films.

RUSS 1B. Elementary Russian. 5 Units

Prerequisite(s): RUSS 1A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Fall, Spring

Continuation of RUSS 1A. Continued emphasis on communication skills and continued integration of cultural-historical components with the language learning experience.

RUSS 2A. Intermediate Russian. 4 Units

Prerequisite(s): RUSS 1B or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of RUSS 1 with further emphasis on the development of communication skills. Meets the Foreign Language Graduation Proficiency Requirement.

RUSS 2B. Intermediate Russian. 4 Units

Prerequisite(s): RUSS 2A or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of RUSS 2A. Meets the Foreign Language Graduation Proficiency Requirement.

RUSS 120. Russian Civilization. 3 Units

General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Introduction to the cultural context that has accompanied Russia's political history from the earliest days of the Kievan state to current post-Communist Russia. Through reading Russian poems and short stories, interviewing Russians, and viewing Russian films, the student will begin to view Russia as Russians see it; thus, the overall objective is to introduce students to the richness of Russia's civilization through her people's own words and images.

RUSS 199. Special Problems. 1 - 3 Units

Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who are competent to carry on independent study. Admission requires the approval of the instructor by whom the work is to be supervised.

Credit/No Credit

Social Sciences (SSCI)

SSCI 193. Integrating History and Social Science. 3 Units

Prerequisite(s): Instructor permission.
Term Typically Offered: Spring only

Capstone seminar that serves as a bridge between academic preparation and entry into a professional teacher credential program. Students will examine social science-history in the State curriculum framework, reflect on subject matter preparation, focus on middle and high school social science teaching and learning, investigate and evaluate resources pertinent to instruction, and explore current issues in education.

SSCI 199. Special Problems. 1 - 3 Units

Prerequisite(s): Approval of instructor or Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Requires permission of instructor and department chair.
Credit/No Credit

Social Work (SWRK)

SWRK 95. Introduction to Social Work. 3 Units
Term Typically Offered: Fall, Spring

Provides an overview of the social work profession and of social welfare systems especially in relation to marginalized populations. Also introduces a generalist perspective to social work practice with emphasis on professional development. Students are exposed to the values and ethics of social work, as well as the important ideologies that have shaped social welfare and social work.
Note: Includes a 30 hour volunteer experience to aid in assessing student's appropriateness for the profession. A grade of 'C' or better is required before taking SWRK 140A.

SWRK 102. Crosscultural Theory and Practice: Issues of Race, Gender and Class. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring, Summer

Increase student awareness of social, political, economic, and cultural diversity. Addresses patterns and consequences of discrimination and oppression as well as theoretical and practice content and strategies for social change.

SWRK 110. Statistics and Research for Social Workers. 3 Units
Term Typically Offered: Fall, Spring, Summer

Descriptive and inferential statistics, sampling, probability distribution, introduction to research methods, relationship of statistics to research methods; illustrations drawn from the field of human services.

SWRK 111. Research Methods and Program Evaluation. 3 Units
Prerequisite(s): SWRK 110.
Corequisite(s): SWRK 140B or SWRK 140C.
Term Typically Offered: Fall, Spring

User oriented research methods focusing on locating, understanding, and using the professional research literature relevant to the development of skills for the human service practitioner; and methods of evaluating ones own practice and agency programs.

SWRK 118. Chemical Dependency and Social Work Practice. 3 Units
Term Typically Offered: Fall, Spring

Introduction to social work practice with the alcoholic/addicted individual or family. The ecological framework will be utilized for studying alcohol and drug dependence and its prevention/intervention. Emphasis will be placed on addiction as a biopsychosocial problem with a special focus on oppressed and marginalized populations.

SWRK 125A. Human Behavior and the Social Environment: Theory. 3 Units
Prerequisite(s): SWRK Majors only with Junior status; completion of pre-major BIO 1, BIO 10, BIO 20 or ANTH 1; and ECON 1A, ECON 1B, PSYC 2, or SOC 1; and CRJ 1, GERO 100, SOC 3 or SOC 10.
Term Typically Offered: Fall only

Theory forms the foundation of all social work practice, attempting to explain complicated human behavior in interaction with diverse environments. This course examines core theories of human behavior, families, small groups, organizations, social movements, and human society from a variety of social science disciplines. Each theory will be critically examined in respect to application towards diverse groups and the vulnerable populations that social workers serve.

SWRK 125B. Human Behavior and the Social Environment: The Life Course. 3 Units
Prerequisite(s): SWRK majors only and SWRK 125A
Term Typically Offered: Spring only

This course examines growth and development with special focus on lifespan from birth through old age in the context of family, community, complex organizations, and society. With technological, economic, political and ecological systems rapidly changing, the course will also examine the effects on the interplay between human life and the environment.

SWRK 126. Theories of Criminal Behavior. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring, Summer

Analyzes various theories in terms of their logic, historical origins, and policy implications. Focus on developing a critical framework.

SWRK 129. Human Sexuality in Social Work Perspectives. 3 Units
Term Typically Offered: Fall only

Examines psycho-social-cultural influences on sexual identity and sexual behavior; analyzes problems confronting the victims of sex-discrimination and oppression; considers education and treatment programs.

SWRK 132. Social Work and Spirituality. 3 Units
Term Typically Offered: Spring only

This course examines how spirituality serves as a liberating, and at times constricting force in the lives of our clients and communities. Competencies for both assessing and engaging in discussions about our clients' spiritual world as well as self-awareness regarding social work practitioner spiritual orientations are emphasized. Diverse spiritual and religious backgrounds (including those who consider themselves non-spiritual or non-religious) are welcomed and celebrated in the classroom.

SWRK 134. Crimes Without Victims. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

Focuses on the study of particular behavior defined as criminal, including addiction, pornography, homosexuality, prostitution and abortion. The role of morality is examined.

SWRK 136. Poverty and Homelessness in America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Analyzes social theory and its relationship to the generation and retention of institutional poverty. Within this context, public and private welfare programs serving low-income populations will be examined.

SWRK 137. The Child and the Law. 3 Units
Term Typically Offered: Spring only

Both civil and criminal aspects of the relationship of the applicability and effect of the law on minors, including juvenile court, wardship and dependency, liability for torts, the child and divorce.

SWRK 138. Violence In The Family. 3 Units
Term Typically Offered: Fall only

Provides basic information on victims and perpetrators of violence in the family. The focus is on child maltreatment, spouse/partner battering, abuse of the elderly, and the roles and responsibilities of social workers responding to family violence.

SWRK 140A. Social Work Practice. 3 Units
Prerequisite(s): SWRK 95 and SWRK 125A; SWRK majors only; Junior standing and a grade of 'C' or better in all previous SWRK courses
Corequisite(s): SWRK 125B
Term Typically Offered: Fall, Spring

Provides an introduction to the profession and generalist social work practice with individuals, families, groups, organizations, and communities. Practice skills focus on application of the planned changed process from an empowerment approach.

SWRK 140B. Social Work Practice. 3 Units
Prerequisite(s): SWRK 95, SWRK 102, SWRK 125B, SWRK 140A, SWRK 150; SWRK majors only; senior standing; Minimum grade of 'C' in all previously completed SWRK courses; GWAR certification or having met university writing requirements
Corequisite(s): SWRK 195A
Term Typically Offered: Fall, Spring

Generalist practice through a cross-cultural lens. Focuses on culturally competent relationship building, assessment, and intervention with individuals, organizations and communities.

SWRK 140C. Social Work Practice. 3 Units
Prerequisite(s): SWRK 195A and SWRK 140B.
Corequisite(s): SWRK 195B
Term Typically Offered: Fall, Spring

Focuses on family intervention through an emphasis on strengths-based case management and children and youth issues. Group work processes and intervention examined through experiential and formal learning. Corequisite: SWRK 195B.

SWRK 144. Working with LGBTQ+ Publics. 3 Units
Prerequisite(s): Be a junior or senior undergraduate. Paired.
Term Typically Offered: Spring only

This elective provides students with an in-depth understanding and critical framework to conduct applied work with individuals who are LGBTQ+, and their kinship networks and communities. Various perspectives (e.g., person-in-environment, historical, political, psychological, critical theory, intersectional) are utilized to better understand contemporary issues, social and health inequities, and lived experiences of LGBTQ+ people. Assignments deepen self-awareness in service of professional development. This course is open to upper division undergraduates of all majors, and to all graduate students.

SWRK 150. Welfare In America. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Examines the history, purpose, structure and costs of current American social welfare policy and programs and the role of social work in policy and program development.

SWRK 151. Health Services and Systems. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring, Summer

Examines the delivery of health and mental health service with a focus on problems experienced by economically disadvantaged and oppressed populations.

SWRK 153. Child Welfare Services. 3 Units
Term Typically Offered: Fall, Spring

Provides basic information on the recognition and treatment of problems of children in the home, school and community, and on the public and private social services and laws which promote and protect the welfare of children.

SWRK 191. Exploration of Veteran Studies: An Ethnographic Approach. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring

Through the review of ethnographic works, qualitative research articles and other significant recent literature on veterans' issues, students are introduced to the qualitative research process. Most significantly students simultaneously gain knowledge of the issues and challenges faced by veterans returning from combat as they transition to civilian life as well as the best practices in supporting positive transitions from combat to civilian life. Students will develop analytical thinking skills and writing skills for preparing literature reviews.

SWRK 195A. Field Instruction. 6 Units
Prerequisite(s): SWRK 102, SWRK 125A, SWRK 125B, SWRK 140A and SWRK 150 and permission of the Field Director (or designee).
Corequisite(s): SWRK 140B.
Term Typically Offered: Fall, Spring

Two semester sequence of instruction that takes place in a human service organization in the community wherein students demonstrate, under the auspices of a certified field instructor, their ability to apply the knowledge, practical skills, critical thinking/reasoning abilities, and interpersonal communication skills required of undergraduate level social works. Students must provide their own transportation to and from field sites, purchase malpractice insurance through the Division of Social Work.
Credit/No Credit

SWRK 195B. Field Instruction. 6 Units
Prerequisite(s): SWRK 102, SWRK 125A, SWRK 125B, SWRK 140A, SWRK 140B, SWRK 195A and SWRK 150; permission of the Field Director required.
Corequisite(s): SWRK 140C.
Term Typically Offered: Fall, Spring

Two-semester course sequence that takes place in a human service organization. Students demonstrate their ability to apply social work knowledge and practical skills. Students must provide their own transportation and purchase malpractice insurance through the Division of Social Work.
Note: Enrollment is limited to students who have secured an approved Field placement.

Credit/No Credit

SWRK 198. Co-Curricular Activities. 1 - 3 Units
Prerequisite(s): Permission of the Undergraduate Social Work Coordinator.
Term Typically Offered: Fall, Spring

Co-curricular activities related to the subject matter and intellectual concerns of the Division of Social Work, including service on division policy-making committees and participation in ASI approved organizations.
Credit/No Credit

SWRK 199. Special Problems. 1 - 3 Units
Prerequisite(s): Approval of the faculty sponsor of the project and Division Chair.
Term Typically Offered: Fall, Spring

Independent research, project or directed reading.
Note: Open to students who are capable of independent work.

Credit/No Credit

SWRK 202. Social Work and Diverse Populations. 3 Units
Term Typically Offered: Fall, Spring

Prepares students to understand cultural and social diversity. Addresses theoretical and practice dimensions of social work with diverse and oppressed and vulnerable people for personal and social empowerment in behalf of human dignity and social justice.

SWRK 204A. Social Work Practice I. 3 Units
Corequisite(s): SWRK 295A.
Term Typically Offered: Fall, Spring

Building on the liberal arts framework and using the ecological model, this course introduces students to generalist social work practice with individuals, families, small groups, organizations, disadvantaged populations, communities, and society.

SWRK 204B. Social Work Practice II. 3 Units
Prerequisite(s): SWRK 204A, SWRK 295A.
Corequisite(s): SWRK 295B.
Term Typically Offered: Fall, Spring

Broadens the ecological perspective to address economic and political issues, social stratification, and racism as they impact practice with at-risk populations; promoting change at multiple levels of intervention.

SWRK 206A. Multi-Level Practice for Behavioral Health. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, and advancement to candidacy.
Corequisite(s): SWRK 296A
Builds upon content of SWRK 204B and provides advanced knowledge and skills for mental health assessments, diagnosis and treatment and to provide long-term and acute mental health treatment, respond to acute trauma and indigent populations.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 206B. Multi-Level Practice for Behavioral Health. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, SWRK 206A, SWRK 296A, and advancement to candidacy.
Corequisite(s): SWRK 296B
Builds upon content of SWRK 204B and provides advanced knowledge and skills for mental health assessments, diagnosis and treatment and to provide long-term and acute mental health treatment, respond to acute trauma and indigent populations.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 207A. Multi-Level Practice for Children & Families. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, and advancement to candidacy.
Corequisite(s): SWRK 297A
Builds upon content of SWRK 204B and provides advanced knowledge and skills in areas affecting children and families with a specific focus on training students in Child Protective Services, abuse, neglect and human trafficking.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 207B. Multi-Level Practice for Children & Families. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, SWRK 207A, SWRK 297A, and advancement to candidacy.
Corequisite(s): SWRK 297B
Builds upon content of SWRK 204B and provides advanced knowledge and skills in areas affecting children and families with a specific focus on training students in Child Protective Services, abuse, neglect and human trafficking.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 208A. Multi-Level Practice for Health & Aging. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B and advancement to candidacy.
Corequisite(s): SWRK 298A
Builds upon content of SWRK 204B and provides advanced knowledge and skills for hospital and hospice care, respond to the needs of Baby Boomers, support diversity in aging choices while assisting clients with management of health care, housing and quality of life optimization.
Note: Enrollment is limited to students who have secured an approved Field placement.

SWRK 208B. Multi-Level Practice for Health & Aging. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, SWRK 208A, SWRK 298A, and advancement to candidacy.
Corequisite(s): SWRK 298B
Builds upon content of SWRK 204B and provides advanced knowledge and skills for hospital and hospice care, respond to the needs of Baby Boomers, support diversity in aging choices while assisting clients with management of health care, housing and quality of life optimization.
Note: Enrollment is limited to students who have secured an approved Field placement

SWRK 210. Methods of Social Research. 3 Units
Prerequisite(s): Undergraduate social statistics course.
Term Typically Offered: Fall, Spring

Examination of quantitative and qualitative methods of social work research. Includes problem formulation, selection of various conceptual frameworks, research designs, sampling, collecting data, experimental design and computer technology.

SWRK 213. Public Child Welfare Practice. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B.
Term Typically Offered: Fall, Spring

Integrates the concepts and skills learned in Advanced Practice, Advanced Policy, and Research courses of the MSW program and applies to the specific client population of public child welfare agencies. Required for Title IV-E stipend students; open to others on basis of space availability.

SWRK 215. Mediation & Restorative Justice. 3 Units
Term Typically Offered: Fall, Spring

The course examines the principles, policies, goals, and practice of mediation and restorative justice in social work settings including the adult and juvenile criminal justice systems, family court, child welfare, schools, mental health, health, and community dispute resolution centers. Students will learn mediation and restorative justice practice skills to work effectively with individuals as both clients and providers of services, as well as within various institutions, systems, and communities.

SWRK 218. Chemical Dependence: Strategies and Tactics for Social Work Practice. 3 Units
Term Typically Offered: Fall, Spring

Designed to increase the sensitivity of graduate social work students to the major intervening variables contributing to the problem of chemical dependence in contemporary American society.

SWRK 219. Social Work Practice in Health Care Settings. 3 Units
Term Typically Offered: Fall, Spring

Provides intervention strategies useful in health care settings. Individual, family and group practice strategies are presented as well as discharge planning, advocacy, ethnically sensitive issues, and collaboration practice within hospital settings.

SWRK 221. Community Organizing Practice. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B or instructor permission.
Term Typically Offered: Fall, Spring

Focuses on intervention at the community level with a special emphasis on grass roots organizing and advocacy.

SWRK 223. DSM New Developments in Psychodiagnosis. 3 Units
Term Typically Offered: Fall, Spring

Designed to give practitioners and students hands-on experience in using the DSM IV Manual. Videotapes, case vignettes, and small group discussions used.

SWRK 224. Advanced Mental Health Practice. 3 Units
Prerequisite(s): SWRK 204A, SWRK 204B or instructor permission.
Term Typically Offered: Fall, Spring

Examines a variety of theoretical views on adaptations of childhood and adulthood with accompanying models for assessment and treatment. Explores current views on intra-psychic and interpersonal functioning utilized in mental health settings.

SWRK 225. Advanced Group Work Methods: Process and Intervention Strategies. 3 Units
Term Typically Offered: Fall, Spring

Covers small group theory and process, and group method in a variety of settings, with emphasis on group development.

SWRK 226. Family Intervention: Contemporary Issues in Social Work Practice. 3 Units
Term Typically Offered: Fall, Spring

Critically addresses the origins and contemporary context and models of interventions with families.

SWRK 228. Clinical Intervention in Sexual Abuse. 3 Units
Term Typically Offered: Fall, Spring

Presents an intervention system that can assist professionals to work with sexually abusive families and victims of sexual abuse. Assessment, planning, and treatment are described and methods of intervention demonstrated.

SWRK 232. Spirituality and Social Work. 3 Units
Term Typically Offered: Fall, Spring

Considers the role of spirituality in the socialization process of the professional as well as the client by examination of spirituality, values, ethics, principles, and philosophies as influences on personal and professional interactions.

SWRK 235A. Theoretical Bases of Social Behavior. 3 Units
Term Typically Offered: Fall, Spring

Examines the growth, change and interaction of individuals, families and groups, organizations, and communities with special attention to lifespan development and systems theory.

SWRK 235B. Theoretical Bases of Social Behavior. 3 Units
Prerequisite(s): SWRK 235A.
Term Typically Offered: Fall, Spring

Focuses on major personality theories; principal theories of health, illness and disordered behavior; child and family dynamics; and theories of group and organizational behavior.

SWRK 238A. Issues and Practice in Schools. 3 Units
Prerequisite(s): Admission to the College of Social Work Program.
Corequisite(s): SWRK 204C, SWRK 295C.
Term Typically Offered: Fall, Spring

Introduces the student to the field of school social work in its dynamic social, educational, legal, political, and human complexity. Examines the challenges of rapid social and demographic change in California as well as the need for restructuring education and innovative responses.
Note: Required for Pupil Personnel Services Credential.

SWRK 238B. Issues and Practice in Schools. 3 Units
Prerequisite(s): SWRK 204C, SWRK 238A, SWRK 295C.
Corequisite(s): SWRK 204D, SWRK 295D.
Term Typically Offered: Fall, Spring

Continuation of SWRK 238A, course examines classroom management, case assessment, alternative education practices, discipline and attendance law, impediments to individual development as well as case studies, interagency collaboration, new community partnerships, and media and high technology uses.
Note: Required for Pupil Personnel Services Credential.

SWRK 244. Working with LGBTQ+ Publics. 3 Units
Prerequisite(s): MSW I or II, or other graduate student. Paired.
Term Typically Offered: Spring only

This elective provides students with an in-depth understanding and critical framework to conduct applied work with individuals who are LGBTQ+ and their kinship networks and communities. Various perspectives (e.g., person-in-environment, historical, political, psychological, critical theory, intersectional) are utilized to better understand contemporary issues, social and health inequities, and lived experiences of LGBTQ+ people. Assignments deepen self-awareness in service of professional development. This course is open to upper division undergraduates of all majors, and to all graduate students.

SWRK 245. Death, Grief And Growth. 3 Units
Term Typically Offered: Fall, Spring

Death and the process of terminating life seen from the social, cultural, personal and medical perspectives. Comparisons of competing, contradictory or complementary views of death among specific religions, social classes, ethnic groups and superstitions and taboos connected with the dead.

SWRK 250. Social Welfare Policy and Services. 3 Units
Term Typically Offered: Fall, Spring

Analyzes contemporary social welfare policy and the ways in which policy is carried out through a broad spectrum of agencies and services, in a historical and philosophical context relevant to professional social workers. This course meets the foundation competencies of social welfare policies and services within the specific context of thinking, reading and writing in social work policy practice.
Note: Graduate Writing Intensive (GWI) course.

SWRK 252. Advanced Policy for Behavioral Health. 3 Units
Prerequisite(s): SWRK 250 and advancement to candidacy.
Builds on the foundation content of SWRK 250 with deeper knowledge of diverse theoretical and practical approaches to policy analysis, development, implementation, and evaluation to empower communities and individuals, to advance and protect human rights, and to optimize social justice. Focuses on Behavioral Health policy and services, involuntary commitment, access to care and patients' rights, financing and organization of Behavioral Health services, legislation and community engagement around Behavioral Health issues.

SWRK 253. Advanced Policy for Children & Families. 3 Units
Prerequisite(s): SWRK 250 and advancement to candidacy
Builds on the foundation content of SWRK 250 with deeper knowledge of diverse theoretical and practical approaches to policy analysis, development, implementation, and evaluation to empower communities and individuals, to advance and protect human rights, and to optimize social justice. Focuses on sociopolitical issues, laws and court decisions, history and role of government in public child welfare practice, children's and parents' rights, child custody, sexual abuse laws, and emancipation.

SWRK 254. Advanced Policy for Health & Aging. 3 Units
Builds on the foundation content of SWRK 250 with deeper knowledge of diverse theoretical and practical approaches to policy analysis, development, implementation, and evaluation to empower communities and individuals, to advance and protect human rights, and to optimize social justice. Focuses on the policies and services for meeting the health, economic, psychological, and the social needs of the older adults and those in health care settings.

SWRK 258. Advanced Policy - Children and Families. 3 Units
Prerequisite(s): SWRK 251.
Term Typically Offered: Fall, Spring

Building upon SWRK 251, this course examines the history of child and family services, introduces the students to theories and methods of policy analysis, and focuses on analysis of selected federal, state, and local policies specifically relevant to children and families, as well as how social workers influence policy formulation and implementation.
Note: Required for title IV-E students.

SWRK 259. International Social Work. 3 Units
Term Typically Offered: Fall, Spring

SWRK 261. Grant Writing and Resource Development. 3 Units
Term Typically Offered: Fall, Spring

Prepares students for resource and grant proposal development as well as grant project management and evaluation. Students will develop various skills including how to identify and communicate with appropriate funding sources conceptualize, write and submit a grant proposal prepare a grant budget; administer a grant funded program; and evaluate program outcomes, and peer reviews of grant proposals.

SWRK 262. Social Work Practice in Rehabilitation. 3 Units
Prerequisite(s): Admission to MHSA cohort and instructor permission.
Term Typically Offered: Fall, Spring

Reflects the current best practices of psychosocial rehabilitation, and pays particular attention to the nuances of those practice expectations within the context of the Mental Health Services Act of 2004. The course requirement for all students who are recipients of the mental health stipend in the Division of Social Work.

SWRK 268. Advanced Clinical Social Work with Older Adults. 3 Units
The focus of this course is on specialized practice with aging clientele. The curriculum is intended to help students adapt social work theory (person-in-environment), practice principles, standards and values to practice with older adults. This course includes a critical analysis of the theoretical underpinnings of gerontological thought and assists students to view aging through multiple perspectives with an examination of physiological, psychological and sociological phenomenon.

SWRK 295A. Field Instruction. 3 Units
Prerequisite(s): Must be classified graduate Social Work student and approval of the Field Director or designee.
Corequisite(s): SWRK 204A.
Term Typically Offered: Fall, Spring

Field Instruction
Note: Enrollment is limited to students who have secured an approved Field placement

Credit/No Credit

SWRK 295B. Field Instruction. 4 Units
Prerequisite(s): SWRK 204A and 295A; Must be classified graduate Social Work student and approval of the Field Director or designee.
Corequisite(s): SWRK 204B.
Term Typically Offered: Fall, Spring

Field Instruction
Note: Enrollment is limited to students who have secured an approved Field placement.

Credit/No Credit

SWRK 295E. Post Master's Pupil Personnel Services Fieldwork. 3 Units
Prerequisite(s): Admission to Post Master's PPS program.
Term Typically Offered: Fall, Spring

School based sites for the development of Pupil Personnel Services skills. Two days per week.
Credit/No Credit

SWRK 295F. Post Master's Pupil Personnel Services Fieldwork. 3 Units
Prerequisite(s): Admission to Post Master's PPS program.
Term Typically Offered: Fall, Spring

School based sites for the development of Pupil Personnel Services skills. Two days per week.
Credit/No Credit

SWRK 296A. Field Instruction for Behavioral Health. 5 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, and advancement to candidacy.
Corequisite(s): SWRK 206A
Field Instruction for Behavioral Health
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 296B. Field Instruction for Behavioral Health. 5 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, SWRK 206A, SWRK 296A, and advancement to candidacy
Corequisite(s): SWRK 206B
Field Instruction for Behavioral Health
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 296D. Advanced Social Work Practice with Persons with a Developmental Disability. 3 Units
The definition, incidence, etiology, and prevention of developmental disabilities will be presented. This course also examines the life course needs of people with developmental disabilities including the collaboration of families and community, the role of social workers and other health professionals in the California Regional Center System and the Department of Developmental Disabilities, as well as presenting general issues related to service delivery systems, advocacy movements, criminal justice system involvement, mental health, sexuality issues as well as social policy issues.

SWRK 297A. Field Instruction for Children & Families. 5 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, and advancement to candidacy.
Corequisite(s): SWRK 207A
Field Instruction for Children & Families
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 297B. Field Instruction for Children & Families. 5 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, SWRK 207A, SWRK 297A, and advancement to candidacy.
Corequisite(s): SWRK 207B
Field Instruction for Children & Families
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 298A. Field Instruction for Health & Aging. 5 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, and advancement to candidacy.
Corequisite(s): SWRK 208A
Field Instruction for Health & Aging
Note: Enrollment is limited to students who have secured an approved field placement.

Credit/No Credit

SWRK 298B. Field Instruction for Health & Aging. 5 Units
Prerequisite(s): SWRK 204A, SWRK 204B, SWRK 295A, SWRK 295B, SWRK 208A, SWRK 298A, and advancement to candidacy
Field Instruction for Health & Aging
Note: Enrollment is limited to students who have secured an approved field placement.

SWRK 299. Special Problems. 1 - 3 Units
Prerequisite(s): Approval by faculty sponsor and division director.
Term Typically Offered: Fall, Spring

Individual research and directed reading. Written report required.
Credit/No Credit

SWRK 500. Culminating Experience. 2 - 4 Units
Prerequisite(s): Advanced to candidacy. SWRK 210.
Term Typically Offered: Fall, Spring

Completion of either: A. Thesis (an original contribution to knowledge) OR B. Research Project (addition to technical/professional knowledge or application of knowledge through case study, field study, documentary report, substantial annotated bibliography, or article of publishable quality) OR C. Directed Study and Comprehensive Examination (seminar, portfolio, examination).

SWRK 501. Advanced Research Methods. 2 Units
Prerequisite(s): SWRK 202, SWRK 204A, SWRK 204B, SWRK 210, SWRK 250 and Advancement to Candidacy
Term Typically Offered: Fall, Spring

This course offers a classroom structure to project-based research education. Class includes both qualitative and quantitative study design, theory construction, advanced methods of data analysis. This course expands on the knowledge gained from SWRK 210 (Methods of Research). Students will experience a mixture of advanced research content including: quantitative research designs, sampling, data collection and analysis, advanced quantitative research designs, sampling, data collection and analysis.

SWRK 502. Integrative Capstone Project. 2 Units
Prerequisite(s): SWRK 501
Term Typically Offered: Fall, Spring

This course is designed to reflect the student's proficiency in the core competencies of the social work profession. The focus of this course is the identification of a social work problem, developing a research design which appropriately addresses the problem, and presentation of the findings. Students demonstrate professional competencies in: ethics, communication, diversity, theory, research, direct and indirect and indirect practice, leadership and organizational processes and evidence of a professional self.

Sociology (SOC)

SOC 1. Principles of Sociology. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to the field of sociology; its basic concepts and principles; the analysis and explanation of culture, personality, social institutions, social change, population, social processes and collective behavior.

SOC 3. Social Problems. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to major social problems in the U.S., with an emphasis on systemic problems, such as economic, racism and sexism. Problems in major social institutions such as the family, social services, criminal justice and the environment are also addressed.

SOC 5. Exploring Issues Facing Contemporary Families. 3 Units
Term Typically Offered: Fall, Spring

An exploration of social issues that contemporary families face every day with an integration of the life course perspective and sociopsychological viewpoint. Issues covered may include varying family constellations, mate selection, intimacy, communication, adjustment, cohesion, attachment, aging, foster care and adoption, gender, race/ethnic/cultural influences, social stratification, family/partner violence, health, and social policy.

SOC 8. Sense and Nonsense in Social Issues and Research. 3 Units
General Education Area/Graduation Requirement: Critical Thinking (A3)
Term Typically Offered: Fall, Spring

Introduces basic steps in the research process and/or basic steps in critically evaluating discussions on social issues. Students are taught to recognize common errors through the analysis of non-technical applied research and/or through newspapers and sociological articles about social issues and problems. Emphasizes the logical steps involved in thinking critically about social research and/or social problems such as quality of operational definitions, weaknesses in research design, sampling errors, value assumptions, logical consistency between premises and conclusions, and the structure of arguments.

SOC 10. Issues in Crime and Social Control. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduces the concepts utilized by sociologists in the analysis of controversial issues in crime and social control, e.g., norms, roles, subcultures, labeling, social conflict, social stratification, racism, sexism, etc. Particular attention is paid to sources of data and trends over time. Issues covered include, but are not limited to: capital punishment, drugs and drug policy, domestic violence, abortion, driving under the influence, police use of deadly force, private prisons and juvenile justice reform.

SOC 101. Introduction to Statistics for Sociologists. 4 Units
Prerequisite(s): Sociology majors only
Term Typically Offered: Fall, Spring, Summer

Provides students with an overall view of the role and techniques of statistics in the presentation and interpretation of social science data. Lectures emphasize descriptive statistics: measures of central tendency and variability, and association and correlation. Introduction is given to statistical inference: sampling distributions, hypothesis-testing, and estimation. Lab sessions provide demonstrations and training in the practical application of concepts and techniques dealt with in lectures. Students learn to use the computer as an aid in data processing and analysis.

SOC 101X. Collaborative Practice for SOC 101. 1 Unit
Corequisite(s): SOC 101.
Term Typically Offered: Fall, Spring

SOC 101X Collaborative Practice for SOC 101. Discussion, 1 hour. Students concurrently enrolled in SOC 101 work collaboratively on, and discuss, problem sets designed by the SOC 101 instructor. Pedagogical strategies that encourage active, engaged learning are employed to facilitate student understanding and success in SOC 101.
Credit/No Credit

SOC 102. Research Methods in Sociology. 4 Units
Prerequisite(s): SOC 101; Sociology majors only
Term Typically Offered: Fall, Spring, Summer

Students will be introduced to the basic steps in research; problem definition, research design, sampling, data collection methods, and analysis. Laboratory excercises reinforce methodological processes, including finding and evaluating existing research studies, operationalizing concepts, developing questionnaires, and analyzing primary data. Students will learn how to process and analyze both qualitative and quantitative data, including analytic induction, manipulation of computerized data files, bivaraite and multivariate analysis, table construction, and preparation of written research reports. Lab exercises reinforce computer and statistical skills.

SOC 103. Advanced Sociological Analysis. 3 Units
Prerequisite(s): SOC 101 and SOC 102
Term Typically Offered: Fall, Spring

An advanced course in research design and analysis. Introduces students to advanced data analysis techniques and how to use them to investigate social problems and issues. Students will build on the knowledge they have accumulated in previous courses in sociological research methods and theory to design and complete a research project. Specific methodological strategies taught will vary, and could include regression analysis, ethnography, comparative-historical methods, qualitative interviewing, evaluation research and longitudinal survey analysis.
Note: May be repeated for credit

SOC 106. Births, Deaths and Borders. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Studies population including growth and decline, fertility and mortality trends, migration, human ecology, and the interrelationship of population and socioeconomic change.

SOC 110. Urban Life and Problems. 3 Units
Term Typically Offered: Fall, Spring

Takes a political economic approach to urban development, with special emphasis on the roles played by various social groups and institutions. Particular attention is given to the effects of urban growth, oppositional movements to growth and the global developments that affect urban conditions.

SOC 118. Chicano Community. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Analyzes the institutions, norms, values, and traditions of the Chicano community. Included is an examination of the Chicano community's progress in mainstream American life with attention to the effect of ethnocentrism, racism and class.

SOC 120. Ethnic and Race Relations. 3 Units
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Analyzes relations among various racial, religious, nationality, and gender groups as they interact with racism, ethnocentrism and class in the U.S. and the world.

SOC 122. Immigration Studies. 3 Units
Term Typically Offered: Fall, Spring

Examines the social phenomena of labor migration, immigration, and transnationalism, and places their origins and development in the context of political-economic national inequalities. Advances an understanding of why societies experience migration, immigration, and transnationalism, and evaluates competing and complementary theoretical frameworks explaining these migratory processes, particularly as they relate to the U.S. Special attention will be given to race, gender, and class relations as impacted by labor migration processes.

SOC 123. Black Studies in Sociology. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to the sociological analysis of Black American life in the U.S. -- the complex phenomena of Black issues, emerging theories of race, and the cumulative scholarship on black identity, experience, socio-economic status, and social organization.. Focus is on the original contributions of social scientists to Black Studies in Sociology.

SOC 124. Social Justice in Interdisciplinary Perspective. 3 Units
Prerequisite(s): Sophomore standing or instructor permission.
Term Typically Offered: Fall, Spring

Examines the nature and forms of social justice and injustice. Key philosophical and theoretical models and debates over the meaning of social justice, using historical and contemporary examples to highlight important concepts and controversies are addressed. Faculty from different departments within SSIS, and occasionally from other colleges, will address how their discipline understands and analyzes issues of social justice. Students will be encouraged to critically assess the assumptions of various perspectives on social justice, and to address the relationship of academe and social activism in achieving social justice. Cross listed as ANTH 130, ID 124, ENVS 124, ETHN 124 and FACS 124. Only one may be counted for credit.

SOC 125. Social Inequalities. 3 Units
Prerequisite(s): SOC 1 or equivalent.
Term Typically Offered: Fall, Spring

Examination of the ways race, class and gender, as well as the intersection of all three, affect the distribution of valued resources in a society. Other social inequalities such as age, sexual orientation, or nationality, etc. may also be examined. Attention is given to struggles to change or preserve economic and political inequalities.

SOC 126. Sociology of Gender. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines how gender designation of 'male' and 'female' impacts an individual's life; explores the social construction of masculinity and femininity in the family, school, workplace, everyday interactions, and within racialized and colonized societies; studies the consequences of gender difference and inequality that result in violence and abuse, sexual harassment, hate crimes, wage differentials and unequal opportunities.

SOC 127. Men, Masculinity and Society. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduces students to the field of men and masculinity. Examines the construction of masculinity in sports, family, work and other social relationships, showing how it affects and is affected by people, institutions and society. Explores the diverse experiences based on race, class, occupation, physical ability and sexuality, and the implications for people from such diverse groups.

SOC 128. Sociology Of Sexuality. 3 Units
Prerequisite(s): SOC 1 or instructor permission.
Term Typically Offered: Fall, Spring

Studies sexuality including historical and cultural differences in sexual attitudes, beliefs and behaviors. Also examines the mutual influence of sexuality and social institutions, such as the family, the economy, politics and religion.

SOC 130. Political Sociology. 3 Units
Prerequisite(s): SOC 1 or equivalent.
Term Typically Offered: Fall, Spring

Analyzes political order and change from the viewpoint of cultural values and the institutional structure of societies. Examines group behavior patterns related to ideology, elites, masses, classes, movements, parties, and other power groups. Surveys differing theories and methodologies for the study of political processes across cultures and societies.

SOC 133. Sport in a Global Perspective. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Examines sport in a global context, focusing on the dynamic nature of sports in response to changes in society. Addresses the effect sport has on both the society and the individual, from socialization to nationalism. Focuses on both participants (youth, amateurs, professionals) and spectators (parents, fans, etc.) at all levels of involvement, from community to international competition. Highlights cross-cultural differences in the relationships between sport and other social institutions such as government, corporations, and the media.

SOC 134. Sociology of Film. 3 Units
Term Typically Offered: Fall, Spring

Introduces the 'Sociological Imagination' by linking the personal histories found in films to larger social structures. The evolution of important contemporary global and domestic social issues is discussed by analyzing the sociological content of major motion pictures. The socio-historical development of the American film industry is also examined to explore its ideological role in challenging and perpetuating various forms of class, race, and gender discrimination.

SOC 135. Sociology of Popular Culture. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Analyzes social processes that produce popular culture by contrasting interrelationships between institutional power structures and collective behavior. Examines theories of popular culture, mass movements, and individualism; social change, cultural hegemony, sub-cultures, and organizational studies.

SOC 136. Social Movements. 3 Units
Prerequisite(s): SOC 1 or instructor permission.
Term Typically Offered: Fall, Spring

Analyzes old and new social movements -- pre-political and political, cultural and identity types -- class, labor, feminist, ethnic, environmental, left and right. Challenges by movements to institutional order. Surveys differing theories and methodologies for the study of movements and degree of change (reform, revolutionary) across cultures and societies.

SOC 137. Sociology of Science. 3 Units
Term Typically Offered: Fall, Spring

Examines paradigm changes of science in society and how views of science and technology are socially constructed. Analyzes the representations of scientists, scientific inquiry, and technological innovation. Explores the ways in which science has driven social change, and vice-versa.

SOC 138. Environmental Sociology. 3 Units
Term Typically Offered: Fall, Spring

Studies human society, the natural environment, and their mutual interactions. Examines environmental sociology at several levels, from the micro level of individual communities to the meso level of government policies to macro theoretical considerations. Analysis of environmental issues in a global context also included.

SOC 139. Animals in Society. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines social relationships between humans and animals as pets, companions, workers, entertainers, and food. Analyzes the representations of animals. Studies our relationships with animals both on the level of social groups and as individuals. Applies sociological approaches to the study of human-animal relationships, including the social movements around animal rights.

SOC 140. Sociology of Education. 3 Units
Prerequisite(s): SOC 1 or equivalent.
Term Typically Offered: Fall, Spring

Examines the organization and functions of educational institutions; the rise of mass education and changes in educational systems to the present; the role of teachers, parents, and schools in education; the impact of gender, race, and class on educational outcomes and processes.

SOC 144. Sociology of Health and Illness. 3 Units
Prerequisite(s): SOC 1 or instructor permission.
Term Typically Offered: Fall, Spring

Examines the social contexts of health, illness, and medical care. Emphasizes the debates and contrasting perspectives that characterize the sociological study of health and illness. Topics include the social, global, environmental, and occupational factors influencing health and illness; the politics surrounding physical and mental illness; the patient's perspective on illness; ethical issues in medicine as they relate to medical technology; and health care reform. The influence of health status on identity and interaction will also be addressed.

SOC 146. Sociology of Aging. 3 Units
Term Typically Offered: Fall, Spring

Analyzes the process of aging in the context of social structure and processes. Specifically, it deals with such issues as the age structure of society, social values and norms that define the aged, social stratification and aging, social institutions and the aged, theoretical and methodological issues in social gerontology.

SOC 150. Social Psychology. 3 Units
Term Typically Offered: Fall, Spring

Examines major principles governing face to face interaction and their application in understanding the student's own experience: creating and preserving meaning, 'realities' and selves through dramaturgy, negotiation and power; the relationship between status and intimacy; the impact of status resources (such as race and gender) on the status assignment process; the self concept; the role of emotions in social life.

SOC 155. Criminology. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines social dimensions -- causes and characteristics -- of adult crime and deviant behavior in American society. Makes some international comparisons. Police, courts and prisons are examined. Special attention is given to current issues in crime and deviance.

SOC 156. Delinquency. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines social determinants of juvenile delinquency, including family, urban conditions, social-psychological and sociological factors. Analyzes the juvenile justice system, including law enforcement, the courts and community treatment programs.

SOC 157. Issues in Courts and Prisons. 3 Units
Term Typically Offered: Fall, Spring

Sociologically analyzes American courts and prisons from prosecutorial intake through sentencing and incarceration. Emphasis is on the role of social factors (in particular race, class and gender) in decision-making practices at each stage of processing. Topics will include, but are not limited to: preventive detention, prosecutorial intake, plea-bargaining, jury selection, pre-sentence investigation reports, sentencing, and legal reconstruction of the American prison in the modern era.

SOC 158. Sociology of Deviance. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduces students to the history of attempts to define and explain deviant behavior; explains social conditions and processes associated with careers of deviants; examines relationship of deviance to problems of social control.

SOC 160. Asian Societies. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Cross-cultural study focuses on Japanese and Chinese societies and cultures and their influences on other Asian developments. Emphasizes their distinctive institutions, norms, values, and traditions in relation to contemporary social, economic, and political processes.

SOC 162. Middle Eastern Societies and Culture. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Discusses the fundamental aspects of Middle East Societies covering such topics as population, family, women, patterns of living, social stratification, education, economic development, politics and armies in the Middle East.

SOC 163. Conflict, Oil and Development in the Middle East. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines in detail the major sources of conflict in the Middle East with special reference to the Arab-Israeli conflict, the arms buildup in the Arabian-Persian Gulf, energy crisis and the multi-national aspect of Middle East oil. Attempts to discuss the impact of these conflicts on the processes of social and economic development.

SOC 164. Sociology of Globalization. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Examines globalization and its effect on local societies, including the impact of globalization on local labor and work practices, the social organization of local firms and business enterprises, local social structures such as gender, class, race/ethnicity, and local social patterns such as consumption and leisure activities.

SOC 166. The Family. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to the sociology of the family including an examination of the family in various cultures with the emphasis on the American family in all its many forms.

SOC 168. Self and Society. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Writing Intensive Graduation Requirement (WI), Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Examines the relationship between the individual and society: social interaction, human development, behavior in groups and collectivities, personality and social structure. Theories and empirical studies.

SOC 169. Changing American Family. 3 Units
Term Typically Offered: Spring only

Analyzes the American family, past, present, and future, focusing on explanation and consequences of changes in child-bearing, courtship, marriage, and the interrelationships between the individual and the family and society. Focuses on connecting course material to real world organizations and programs in the community that are associated with or linked to families. Per week: lecture two hours; fieldwork in the community two to three hours.

SOC 170. Sociology of Children and Adolescents. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to the sociology of childhood and adolescence, focusing on theoretical foundations, methodological challenges, and empirical examination of youth from preschool through high school. Focuses on peer relations within wider contexts shaped by gender, race, and social class.

SOC 171. Sociology of Religion. 3 Units
Term Typically Offered: Fall, Spring

Acquaints students with the sociological foundations of religion in society. Emphasis is on the history, development and overall structure of the institution of religion, its relation to social, ethnic and class-based groups and its effect on society in general, and how its social development in America differs from other cultures.

SOC 175. Work and Occupations. 3 Units
Term Typically Offered: Fall, Spring

Examines the social organization of work and economic organization; the rise of industrial society and changes in workplace relations to the present; the role of technology and ideology in the workplace; industrial reforms and alternative forms of economic organization.

SOC 176. Labor and the American Social Structure. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Introduction to the study of labor in the U.S., including the nature of work, characteristics of the work force, and an overview of contemporary labor and industrial relations systems within the framework of current U.S. economic and political developments.
Cross Listed: LBRS 100; only one may be counted for credit.

SOC 185. Bullying as a Social Experience. 3 Units
Term Typically Offered: Fall, Spring

This course educates students on bullying as a social experience, introducing how social forces, environment and context impact the culture of bullying. Students will develop an understanding about how programs and policies impact bullying rates based on social theoretical perspective. Students will gain a better understanding of how research is related to intervention and prevention practices. Then, from a whole school approach, using the resources available to the school, students will implement different components of an anti-bullying program at a school site.

SOC 190. Sociology of Small Groups. 3 Units
Prerequisite(s): SOC 1 or equivalent.
Term Typically Offered: Fall, Spring

Examines social structure and social determinants of behavior in small groups; socialization, social control, social change, leadership, social ranking, social conflict and morale.

SOC 192. Sociological Theory. 3 Units
Prerequisite(s): SOC 1.
Term Typically Offered: Fall, Spring

Surveys the history of sociological theory from Comte to the present.

SOC 193A. Mentoring in Sociology. 1 Unit
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Provides opportunity for freshman, sophomores, and juniors majoring in sociology to be mentored for improved student success and retention. Students receive peer mentoring to facilitate closer integration into campus community through participation in events, organizations, and conferences sponsored by the sociology department. Students learn how to build productive relationships with professors and receive timely advising for better retention and success rates. Course does not count toward sociology major but toward degree requirements.
Note: May be repeated twice for credit; Three times with exception as determined by the instructor.

Credit/No Credit

SOC 193B. Peer Mentoring in Sociology. 2 Units
Prerequisite(s): One year of residency at Sac State; 2.8 GPA required; Open only to Sociology majors.
Term Typically Offered: Fall, Spring

Provides opportunities for junior and senior sociology majors to mentor and gain practical out-of-class experience. Students learn the principles of mentoring and contribute to student retention and success and close the retention gap. Course provides practical orientation and guidance for the best practices in mentoring that contribute to a positive campus culture.
Note: May be repeated twice for credit; Three times with exception to be determined by the instructor.

Credit/No Credit

SOC 194. Special Topics in Sociology. 3 Units
Prerequisite(s): SOC 1 or instructor permission.
Term Typically Offered: Fall, Spring

Examines contemporary issues and social developments within the research specialization of department faculty. Provides a forum to discuss and evaluate controversies and advancements in the discipline of sociology, including theory and methodology.

SOC 195. Internship and Fieldwork. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised internship and fieldwork experience in a variety of settings: (1) public or private agencies in the Sacramento community, and (2) ethnic and/or minority communities. Supervision is provided by authorized persons in the field and collaborative supervision is provided by sociology faculty at Sacramento State. Limitations: sociology majors electing a concentration may count a maximum of 3 units in 195 and/or 199 toward the major. Those taking the general sociology pattern may count up to 6 units of 195 and/or 199 toward the major. Sociology minors may take up to 3 units. (See SOC 199 below.)
Credit/No Credit

SOC 198. Linking Statistics Education and Practice. 1 - 2 Units
Prerequisite(s): SOC 101 and instructor permission
Term Typically Offered: Fall, Spring

Advanced exploration of the scholarship of learning as applied to sociological methods and/or data analysis. Students will work independently on an applied semester project, but will also attend agreed upon number of computer lab hours each week and engage in course activities with a focus on how to best structure learning opportunities and apply content.
Note: Admission requires approval of professor and Department Chair. No more than 3 units from SOC 195, SOC 198, or SOC 199 combined may be applied to the Sociology upper division major requirement.

SOC 199. Individual Study Projects. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading; open only to students who appear competent to carry on individual work. Admission requires approval of the sponsor of the project and the Department Chair. Limitations: sociology majors electing a concentration may count a maximum of 3 units in 195 and/or 199 toward the major. Those taking the general sociology pattern may count up to 6 units of 195 and/or 199 toward the major. Sociology minors may take up to 3 units. (See SOC 195 above.)
Credit/No Credit

SOC 200. Orientation and Writing for Sociological Graduate Studies. 3 Units
Prerequisite(s): Admission to MA in Sociology program.
Term Typically Offered: Fall only

This course introduces students to our graduate program and provides students with insights into how the profession works. Students will learn about campus and departmental resources that will aid them in their studies. This class fulfills the requirements for the required Graduate Writing Intensive Course and will train students in the skills needed for successfully writing sociological papers at a graduate level. Students will also be introduced to department faculty who will share their research interests and writing strategies.

SOC 200A. Orientation to Graduate Studies in Sociology. 1 Unit
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Describes our graduate program, clearly explains our requirements and standards for successful completion of the M.A., shows students how the profession works and how to work in the profession (public submissions, conference presentations, job searches), and explains how to get through the program in a timely manner with a strong thesis. We will discuss Ph.D. programs and the application process, job opportunities and the role of professional sociologists outside academe.

SOC 200B. Thesis Prospectus/Project Preparation Seminar. 2 Units
Prerequisite(s): Completion of a minimum of 6 hours of graduate study. Completion of (or concurrent enrollment in) SOC 214 is recommended.
Term Typically Offered: Fall, Spring

Provides students with faculty and peer support for the process of developing a draft of a thesis prospectus or project proposal. This includes the clarification of expectations, familiarization with research resources, and support provided through feedback in a structured environment.
Credit/No Credit

SOC 210. Urban Sociology. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall, Spring

Critically examines major theories, research, and debates in the field of urban sociology, including social ecology, Marxist, subcultural, and postmodernist perspectives. Course materials will be framed within two main themes; the dynamics of cooperation and conflict under urban conditions, and the tension between private interests and public life in urban settings. Methodological emphasis will be on case studies, ethnographic, and social historical analysis.

SOC 214. Research Methods. 3 Units
Term Typically Offered: Fall, Spring

Deals specifically with such issues as the role of research within the discipline, the ethics of conducting research, the rationale behind field and survey methods, the validity and reliability of data collected through these methods and alternative approaches to data collection.
Note: Open to classified graduate students in sociology, all others by instructor permission only; Graduate Writing Intensive

SOC 215. Data Analysis. 3 Units
Prerequisite(s): SOC 101 or equivalent, or instructor permission.
Term Typically Offered: Fall, Spring

Introduces techniques used to analyze sociological data. Emphasis will be placed on the basic concepts of quantitative models used to explore causality, along with an introduction to software to carry out multivariate analysis. Qualitative analytical techniques and software will also be introduced.

SOC 220. Seminar: Social Change. 3 Units
Prerequisite(s): Classified graduate status in sociology; all others by instructor permission only.
Term Typically Offered: Fall, Spring

Course deals with main theoretical orientations in sociology representing radical, liberal and conservative viewpoints on social change. Examines the historical context of events that affected Western countries such as the Industrial Revolution, French Revolution, and the emergence of nationalism and human rights. Course approach is theoretical, historical and global.

SOC 225. Social Stratification. 3 Units
Prerequisite(s): Classified graduate status in sociology; all others by instructor permission only.
Term Typically Offered: Fall, Spring

Analyzes contemporary issues in stratification literature including class, status, power, sex/gender, identity, ethnicity, mobility, equality/inequality. Discusses differing theories, methodologies, and controversies according to student interests.

SOC 226. Sociology of Gender. 3 Units
Term Typically Offered: Fall, Spring

Intended to introduce graduate students to diverse theories that explain gender relations in contemporary society. Provides a critical perspective on how we construct men's and women's identities and how the consequences of such a construction affect institutions, culture and society. Broken up in four sections: origins of gender inequality and issues surrounding research, theoretical perspectives, marginalized groups, and gendered issues in society.

SOC 230. Seminar: Social Organization. 3 Units
Prerequisite(s): Classified graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Analyzes and critiques institutional structure. Studies shared understanding in groups, corporations, communities, institutions or societies and their hierarchical order.

SOC 235. Social Psychology. 3 Units
Prerequisite(s): Open to classified graduate students in sociology, all others by instructor permission only.
Term Typically Offered: Fall, Spring

Examines advanced social psychology. Focuses on symbolic interactionism, ethnomethodology and other recent developments in sociological social psychology, phenomenology, humanistic social psychology and critical reflexive sociology.

SOC 238. Environmental Sociology. 3 Units
Term Typically Offered: Fall, Spring

Examines the complex relationship between human society and its surrounding environment. Theoretical perspectives are complemented by empirical research on environmental issues. Special attention is given to issues relating to the local and regional California environment. Analyzes environmental issues in a global context.

SOC 240. Seminar: Sociological Theory. 3 Units
Prerequisite(s): Classified graduate status in sociology; all others by instructor permission only.
Term Typically Offered: Fall, Spring

Analyzes and critiques terms and issues in social and sociological theory including levels of social reality and differing perspectives - positivism, idealism, realism, post-modernism, feminism, etc.

SOC 255. Social Research in Crime and Deviance. 3 Units
Term Typically Offered: Fall, Spring

Comprehensively reviews and evaluates major sociological theories of crime and deviance, methods of studying crime and deviance, current empirical research in crime and deviance, empirical testing of sociological explanations of crime and deviance, and empirical evaluation of crime and deviance control policy.

SOC 260. Contemporary Issues of the Middle East and North Africa. 3 Units
Term Typically Offered: Fall, Spring

Discusses in-depth several contemporary issues such as the political dimension of Islam, population growth and food security, oil and development, regional conflict, national integration and forces of modernization, etc. The selection of the topics will depend on current events.

SOC 265. Race and Ethnic Relations. 3 Units
Term Typically Offered: Fall, Spring

Examines the social constructs of race and ethnicity as 'central organizing principles' in the making and development of our modern world, particularly in the U.S., and how they have interacted with class and gender to create and maintain cultural and material social inequalities. Evaluates competing and complementary theoretical frameworks explaining how race and ethnicity affect individual and group social-structural location (e.g., class position, educational attainment, and political power).

SOC 266. Sociology of The Family. 3 Units
Prerequisite(s): Classified graduate status or instructor permission.
Term Typically Offered: Fall, Spring

Sociologically examines the family, with an emphasis on the contemporary American family. The numerous stages and variations of the family life cycle will be considered, with an emphasis on changes and the causes and consequences of the changes.

SOC 294. Special Topics in Sociology. 3 Units
Prerequisite(s): Open to classified graduate students in sociology; all other sociology graduate students by instructor permission
Term Typically Offered: Fall, Spring

Examines contemporary issues and social developments within the research specialization of department faculty. Provides a forum to discuss and evaluate controversies and advancements in the discipline of sociology including theory and methodologies.
Note: May be repeated twice for credit

SOC 295. Internship and Fieldwork. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised internship and fieldwork experience in a variety of settings: (1) public or private agencies in the Sacramento community, (2) ethnic and/or minority communities, and (3) educational institutions including area community colleges and universities. Supervision is provided by authorized persons in the field and collaborative supervision is provided by sociology faculty at Sacramento State.
Credit/No Credit

SOC 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work. Admission requires approval of the sponsor of the project and the Department Chair.

Credit/No Credit

SOC 500. Culminating Experience. 3 - 6 Units
Prerequisite(s): Advancement to candidacy, successful thesis prospectus hearing, and a minimum 3.0 GPA.
Term Typically Offered: Fall, Spring

Completion of a thesis or a project. Thesis: the 6 unit master's thesis requirement must be completed under the direction of the student's thesis committee. Project: the 6 unit project requirement must be completed under the direction of the student's project committee.

Sp Ed, Rehab, School Psychology & Deaf Studies (EDS)

EDS 140. Introductory Behavioral Statistics. 3 Units
Term Typically Offered: Fall, Spring

Descriptive and interpretative statistics in education and allied fields. Use of calculators and statistical tables. Lecture three hours.

EDS 201. Legal Aspects of Special Education. 3 Units
Term Typically Offered: Fall, Spring

Legislative provisions related to implementation of special education programs and procedures will be a primary focus. Additional emphasis will be given to pertinent judicial decisions and to law as it relates to special education in a multicultural context.

EDS 202. Seminar in Neurodevelopmental Disabilities. 3 Units
Term Typically Offered: Fall, Spring

Examines topics and issues in neurodevelopmental disabilities and includes educational, clinical, habilitative, therapeutic, and medical perspectives. Focuses on collaborative, interdisciplinary perspectives on educational and related interventions with students who have neurodevelopmental disabilities.

EDS 203. Seminar for Resource Specialists: Management and Delivery of Services. 3 Units
Prerequisite(s): EDS 201, EDS 101 and Special Education Credential.
Term Typically Offered: Fall, Spring

Review of literature, and simulated experience in the various roles of the resource specialist in special education programs in the schools. Professional problem-solving strategies; standards and procedures; model program organizational alternatives; management approaches of resource specialist program (RSP); major developments and trends at Federal, State and local levels; references to legal provisions, rules and regulations in special education.
Credit/No Credit

EDS 213A. Mathematics Curriculum and Instruction in Inclusive Classrooms. 2 Units
Corequisite(s): EDS 213B.
Term Typically Offered: Fall, Spring

Prepares Mild/Moderate/Severe and multiple subject teacher candidates to teach mathematics content standards for California public schools. Prepares teacher candidates with the knowledge of basic principles and strategies related to mathematics education. Candidates develop, implement, and evaluate math curricula appropriate for those students receiving special education services with mild/moderate/severe disabilities. Expanded treatment of mathematics pedagogy, manipulative, technological supports, accommodations, inclusive instructional techniques, and strategies specially suited in instruction of English language learners and students with disabilities. Prerquisite: Admittance to Mild/Moderate or Moderate/Severe Credential Program or permission of respective special education coordinator.

EDS 213B. Mathematics Curriculum and Instruction in Inclusive Classrooms Lab. 1 Unit
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential Program or permission of respective special education coordinator.
Corequisite(s): EDS 213A.
Term Typically Offered: Fall, Spring

Field-base practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 213A) in a setting for students who receive special and/or general education services.
Credit/No Credit

EDS 214A. Social Science Curriculum and Instruction in Inclusive Classrooms. 2 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education coordinator.
Corequisite(s): EDS 214B.
Term Typically Offered: Fall, Spring

Prepares mild/moderate/severe and multiple subject teacher candidates to teach history-social science content standards for California public schools to all students, including English Learners and students with disabilities; to use analytical and critical thinking skills in history and social science; and to integrate history-social science topics, themes and concepts with other subject areas. Pedagogical topics include the use of timelines, maps, and artifacts, case studies, simulations, literature, art, multiple perspectives, SDAIE, cooperative projects, and research activities.

EDS 214B. Social Science Curriculum and Instruction in Inclusive Classrooms Lab. 1 Unit
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education coordinator.
Corequisite(s): EDS 214A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 214A) in a setting for students who receive special and/or general education services.
Credit/No Credit

EDS 215A. Science Curriculum and Instruction in Inclusive Classrooms. 2 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education coordinator
Corequisite(s): EDS 215B
Term Typically Offered: Fall, Spring

Prepares mild/moderate/serve and multiple subject teacher candidates to teach science content standards for California public schools to all students. Give participants the knowledge of basic principles and strategies related to science education appropriate for general education (k-8) teacher candidates. Participants will also develop, implement, and evaluate science curricula appropriate for those students with mild/moderate/severe disabilities. This includes an expanded treatment of science pedagogy, manipulative, technological supports, accommodations, inclusive instructional techniques, and other strategies specially suited to the instruction of English Learners and students with disabilities.

EDS 215B. Science Curriculum and Instruction in Inclusive Classrooms Lab. 1 Unit
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education coordinator
Corequisite(s): EDS 215A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 215A) in a setting for students who receive special and general education services.
Credit/No Credit

EDS 222. Perspectives Workforce Dev. 3 Units
Term Typically Offered: Fall, Spring

Examines the premises of workforce development and advocacy with emphases on adult learning styles and learning communities. Explores the specific needs of the formal and informal vocational, technical and adult learning community in an ever-changing work environment.

EDS 223. Organization Learning Comm. 3 Units
Term Typically Offered: Fall, Spring

EDS 224. WF Assess+Accountability. 3 Units
Term Typically Offered: Fall, Spring

EDS 226. Resource Enhance For WDA. 3 Units
Term Typically Offered: Fall, Spring

EDS 227. Issues Impacting WDA. 3 Units
Term Typically Offered: Fall, Spring

EDS 228. Sem:Future Workforce Dev. 3 Units
Term Typically Offered: Fall, Spring

EDS 231. Group Process in School Psychology. 3 Units
Term Typically Offered: Fall, Spring

Designed to equip students with the group process skills and understanding essential to the practice of school psychology. Focus on both developing counseling groups within the schools and on the understanding of group process necessary to being an effective agent in the school setting. Topics include the logistics of working within a school system, balancing groups, soliciting referrals, sharing information, participating in staff meeting, and facilitating parent teacher and other school level meetings such as Individualized Education Program Planning meetings.

EDS 239. Education Specialist Seminar. 3 Units
Prerequisite(s): Approval as a candidate in the Education Specialist program, completion of courses required for the School Psychology Internship credential, approval of advisor, and department petition.
Term Typically Offered: Fall, Spring

Explores leadership roles of school psychologists.
Credit/No Credit

EDS 240. Functional Assessment of Behavior. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Assessment of behaviors using the techniques of applied behavior analysis. Students will learn how to do functional assessments of behavior. Methods appropriate for assessment of children in the school setting are emphasized.

EDS 241. Counseling and Psychotherapy for School Psychologists. 3 Units
Corequisite(s): EDS 440.
Term Typically Offered: Fall, Spring

Examination of basic theories of counseling and therapy used by school psychologists, with emphasis on children and youths inn an educational setting and their families. Refinement of one's own counseling orientation is required.

EDS 242A. Cognitive Assessment. 3 Units
Corequisite(s): EDS 242B.
Term Typically Offered: Fall, Spring

Designed to introduce prospective school psychologists to both theory and practice in the assessment of cognitive abilities. Students will be exposed to various approaches to cognitive assessment including information processing, CBA, dynamic, and psychometric. Students will learn to administer and interpret major standardized cognitive assessment instruments including the WISC-R, WAIS-R, Stanford-Binet FE, K-ABC, and others. Lecture.

EDS 242B. Cognitive Assessment Lab. 4 Units
Corequisite(s): EDS 242A.
Term Typically Offered: Fall, Spring

Clinic based practice lab. Lab will be a synthesis and application of course content in the assessment of cognitive function. Students will be assigned clients for purposes of administering, scoring, evaluating and reporting assessment data.

EDS 243. Assessment Practicum. 3 Units
Term Typically Offered: Fall, Spring

Administration, scoring, and interpretation of tests taught in EDS 242A-B, EDS 244, or EDS 247. Students will be assigned five to seven cases. They will assess the children, meet with the families to gather history, and render interpretation.
Note: Must be taken concurrently with EDS 242A, EDS 242B, EDS 244, and EDS 247. May be taken twice for credit.

EDS 243A. Assessment Practicum A. 3 Units
Term Typically Offered: Fall, Spring

Administration, scoring, and interpretation of tests taught in EDS 242A and B and EDS 244. Students will be assigned five cases. They will assess the children, meet with the families to gather history, and render interpretation.
Note: Taken concurrently with EDS 244, unless granted special permission of faculty.

EDS 243B. Assessment Practicum. 3 Units
Prerequisite(s): EDS 243A
Corequisite(s): EDS 247
Term Typically Offered: Fall, Spring

Advanced practice in administration, scoring, and interpretation of tests taught in EDS 242A-B, EDS 243A, EDS 244, and EDS 247. Students will be assigned five to seven cases (with some cases in Fieldwork placements). Development of skills in assessment, analysis of data, intervention planning and conveying results orally and in writing.
Note: Taken concurrently with EDS 247, unless granted special permission of faculty.

EDS 243C. Assessment Practicum. 3 Units
Prerequisite(s): EDS 243B
Term Typically Offered: Fall, Spring

Continued training in development of advanced skills in administration, scoring, and interpretation of tests taught in EDS 242 A-B, EDS 243A, EDS 243B, EDS 244, or EDS 247. Students will be assigned cases by the practicum supervisor as appropriate. Students are expected to successfully engage in all stages of assessment process with clients.
Note: Taken with permission of faculty after completion of EDS 243A and EDS 243B.

EDS 244. Social, Emotional and Behavioral Assessment. 3 Units
Prerequisite(s): EDS 242A and EDS 242B.
Corequisite(s): EDS 243.
Term Typically Offered: Fall, Spring

Examines social/emotional assessment strategies and instruments appropriate for working with students in schools. Topics include clinical interviewing, social-emotional functioning, conduct disorder, and effective report writing. Students use course information during concurrent enrollment in EDS 243: Assessment Practicum.
Note: Must be admitted to School Psychology Program.

EDS 245. Psychology In The Schools. 3 Units
Prerequisite(s): Must be admitted to School Psychology Program.
Term Typically Offered: Fall, Spring

Overview of psychology in the schools. Topics include school systems, program development, service delivery models and the role of the school psychologist. Students will engage in systematic school observations.

EDS 246A. Preventive Academic Interventions. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Study and application of various primary, secondary, and tertiary academic interventions designed to prevent school failure and/or learning challenges. Examines techniques of identifying pupils who are experiencing academic difficulties that interfere with school functioning, and intervention techniques designed to remediate or ameliorate these problems.

EDS 246B. Preventive Mental Health Interventions. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Study and application of various primary, secondary, and tertiary psychological interventions designed to prevent school failure and/or emotional challenges. Examines techniques of identifying pupils who are experiencing mental health difficulties that interfere with school functioning, and intervention techniques designed to address these problems.

EDS 247. Assessment of Special Needs. 3 Units
Term Typically Offered: Fall, Spring

Assessment of client behavior using formal and non-formal methods based on neuropsychological principles. Students will learn to use interview techniques, standardized cognitive and projective tests, and neuropsychological screening procedures to assess students with special needs. Report writing, parent conferences, and consultation strategies will be stressed.

EDS 248. Human Development and Learning. 3 Units
Term Typically Offered: Fall, Spring

Cognitive, socio-emotional and personality development through the lifespan (with emphasis on birth through early adulthood) as influences on the learning process. Includes analysis of theories, empirical research and current issues in human development and learning as applied to school learning.

EDS 249. Special Seminar: School Psychology. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Departmental petition required.

Credit/No Credit

EDS 252A. Advanced Teacher Induction Seminar. 2 Units
Prerequisite(s): Admission to Special Education Level II program.
Corequisite(s): EDS 252B.
Term Typically Offered: Fall, Spring

Leads to the development of a Professional Level II Education Specialist Credential induction plan for the support and professional development of the teacher credential candidate as required by the California Commission on Teacher Credentialing. The candidate, the university advisor, and the employer's representative work together to plan course work, and provide individual assistance, and professional development opportunities to address individual performance goals. Seminar.
Credit/No Credit

EDS 252B. Advanced Teacher Induction Seminar Lab. 1 Unit
Prerequisite(s): Admission to Special Education Level II program.
Corequisite(s): EDS 252A
Term Typically Offered: Fall, Spring

Level II candidate, university advisor/supervisor and employer's representative work collaboratively to develop a professional plan which relates to the CCTC standards and the individual learning needs of the student. The class is designed as a lab to support the acquisition of all proscribed Level II standards and to support the development of the candidate's professional portfolio for assessment of designated competencies.
Credit/No Credit

EDS 264. Seminar in Counseling: Work Evaluation. 3 Units
Term Typically Offered: Fall, Spring

Study of the work evaluation process and the modalities utilized, with emphasis on the use of work evaluation in the rehabilitation process.

EDS 265. Current Issues in Counseling: Disabled. 1 Unit
Term Typically Offered: Fall, Spring

Examination of myths regarding the disabled client. Course includes an exploration of counseling families with a disabled member, the impact of disability upon sexuality and upon interpersonal relationships. Factual data will be presented. The student's attitude toward the disabled will be examined.
Credit/No Credit

EDS 267A. Advanced Studies in Special Education-Seminar I. 3 Units
Corequisite(s): EDS 267B.
Term Typically Offered: Fall, Spring

For candidates accepted into the Level II Alternative Option Program; skills for inservice training, working with paraprofessionals, coordinating meetings, developing consensus, dealing with conflict and serving as part of collaborative teams; e-mail, use of Listproc and attendance at monthly seminars required; attaining and documenting competencies and developing portfolios related to outcomes of the Level II Mild/Moderate or Moderate/Severe Specialist Credential. Lecture.

EDS 267B. Advanced Studies in Special Education Seminar I Laboratory. 3 Units
Corequisite(s): EDS 267A.
Term Typically Offered: Fall, Spring

Will be a synthesis and application of course content (EDS 267A) in a setting(s) for students who receive special education services. The 3-unit lab section requires approximately 90 hours of related field-based and/or on-the-job activities. E-mail/Internet access required.
Credit/No Credit

EDS 268A. Advanced Studies in Special Education-Seminar II. 3 Units
Corequisite(s): EDS 268B.
Term Typically Offered: Fall, Spring

For candidates accepted into the Level II Alternative Option Program; skills for ongoing individualized assessment and curriculum adaptation to meet needs of diverse populations and advanced skills for behavioral management in inclusive settings; e-mail, use of Listproc and attendance at monthly seminars required; attaining and documenting competencies and developing portfolios related to outcomes of the Level II M/M or M/S Specialist Credentials; individualized planning for candidates who are self-directed and committed to self improvement. Lecture.

EDS 268B. Advanced Studies in Special Education Seminar II Laboratory. 3 Units
Corequisite(s): EDS 268A.
Term Typically Offered: Fall, Spring

Synthesis and application of course content (EDS 268A) in a setting(s) for students who receive special education services. The 3-unit lab section requires approximately 90 hours of related field-based and/or on-the-job activities. E-mail/internet access required.
Credit/No Credit

EDS 269A. Collaborative Strategies for Inclusive Practice. 2 Units
Prerequisite(s): CCTC Preliminary Multiple or Single Subject credential. Sacramento State graduate status or CCE/Open University enrollee.
Corequisite(s): EDS 269B.
Term Typically Offered: Fall, Spring

For candidates seeking to meet Special Education CCTC requirements for Level 2 (Induction) Multiple or Single Subject Teaching Credentials. Candidates must demonstrate skills for ongoing IDEA and State mandates, curriculum adaptation to meet individual needs, and advanced skills for behavioral management in inclusive settings. All activities will be tied to attaining and documenting CCTC Level 2 special education standards through individual portfolios. Assignments will be designed to emphasize an interdisciplinary perspective to collaborative problem solving. E-mail/Internet access required.

EDS 269B. Collaborative Strategies for Inclusive Practice Lab. 1 Unit
Prerequisite(s): CCTC Preliminary Multiple or Single Subject credential. Sacramento State graduate status or CCE/Open University enrollee.
Corequisite(s): EDS 269A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours field). Lab will be synthesis and application of course content in a setting for students who receive special education services. Students will verify experiences across the age-span and in inclusive settings, agencies, and/or other natural environments.
Credit/No Credit

EDS 273A. Instructional Strategies - Mild/Moderate. 2 Units
Prerequisite(s): Admittance into Mild/Moderate Credential or M.A. in Education programs.
Corequisite(s): EDS 273B.
Term Typically Offered: Fall, Spring

Development of knowledge, strategies, and skills in the areas of dyslexia, social skills and transition, and other specific learning challenges for individuals with mild/moderate disabilities.

EDS 273B. Instructional Strategies - Mild/Moderate - Lab. 1 Unit
Prerequisite(s): Admittance into Mild/Moderate Credential or M.A. in Education programs.
Corequisite(s): EDS 273A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 273A) in developing instructional strategies for the Mild/Moderate Credential Program area. Students are required to participate in class visitations, student tutoring, and interviews.
Credit/No Credit

EDS 285. Strategies to Enhance Academic Skills for Adults with Learning Disabilities. 3 Units
Term Typically Offered: Fall, Spring, Summer

For adults with learning disabilities (LD), compensatory learning strategies are vital tools for success in the post secondary academic arena and beyond. Learn to utilize the most effective teaching and learning strategies and review material and method for teaching adults with disabilities in reading, writing, spelling and mathematics. Topics include: subtypes of learning disabilities; historical as well as current teaching approaches; formal and informal assessment methods; cognitive function as a basis of understanding learning behaviors and learning strategies; and current technologies available to enhance learning opportunities. Learn how to empower adults with LD with the ability to adapt commonly used learning strategies to meet individual needs.

EDS 290. Issues in Early Childhood Education for Children with Disabilities. 3 Units
Term Typically Offered: Fall, Spring

Overview of current theories, research, policies and practices regarding educational services for children, from birth to 8, with disabilities and their families. Topics emphasized include typical/atypical development, interdisciplinary assessment, family involvement, community resources, program planning, mainstreaming, and collaborative case management. Requires observations/field study in settings serving young children with disabilities.

EDS 291A. Technology in Special Education. 2 Units
Prerequisite(s): Admittance to Special Education Program or instructor permission.
Corequisite(s): EDS 291B.
Term Typically Offered: Fall, Spring

Offers an overview of technology usage in special education. Topics covered include: current research; identification of needs of exceptional children that can be met through use of microcomputers; evaluation and prescription of software, hardware and assistive devices; writing computer-assisted instructional programs to meet special needs; time management, and the general implementation of microcomputers into a special education program.

EDS 291B. Technology in Special Education Lab. 1 Unit
Prerequisite(s): Admittance to Special Education Program or instructor permission.
Corequisite(s): EDS 291A.
Term Typically Offered: Fall, Spring

Field-based practice lab (30 hours). Lab will be a synthesis and application of course content (EDS 291A) in technology usage with students who receive special education services.
Credit/No Credit

EDS 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects at graduate level especially for students capable of independent study.
Note: Departmental petition required.

Credit/No Credit

EDS 332. Assessment Center Laboratory for Multiple Subject Candidates. 2 Units
Prerequisite(s): Admittance to Mild/Moderate or Moderate/Severe Credential program or permission of respective special education instructor.
Corequisite(s): EDSP 420B or approved equivalent by assigned advisor or department chair.
Term Typically Offered: Fall, Spring

Individual support to guide multiple subject candidates through the process of completing and submitting the culminating PACT Teaching Event and completion of their electronic portfolio. The signature assignments, formative PACT assessments and summative PACT Teaching Event represent a working electronic portfolio embedded throughout the credential program, and the summative component will be polished and formally submitted at the conclusion of the EDS 332.
Credit/No Credit

EDS 412. Student Teaching: Moderate/Severe. 5 - 10 Units
Corequisite(s): EDSP 233. A total of 10 units is required.
Term Typically Offered: Fall, Spring

Students teaching in a cooperating LEA/District providing services for students receiving Moderate/Severe special education program services. Candidates must meet the criteria for student teaching to be accepted to this course.
Note: Approximately 320 hours are required to meet competencies.

Credit/No Credit

EDS 439. Early Fieldwork in School Psychology. 1 - 10 Units
Prerequisite(s): Satisfactory completion of first year coursework.
Term Typically Offered: Fall, Spring

Fieldwork experience is designed to allow students to explore roles in public schools and to gain experience in the organization and operation of schools, classrooms, and special services. The field placement allows students to work with pupils in public school settings that offer individual and group counseling; consultation with teachers, parents, and other school staff, and special accommodations for students with special needs. Students will work under the supervision of a credentialed school psychologist or school counselor at local school sites. A faculty supervisor from the School Psychology Training Program will work closely with students and field supervisor.
Note: May be repeated for credit.

Credit/No Credit

EDS 439A. Early Fieldwork in School Psychology. 1 - 10 Units
Prerequisite(s): Satisfactory completion of first year coursework. Graded: Credit / No Credit Units: 1.0 - 10.0
Term Typically Offered: Fall, Spring

Fieldwork experience is designed to allow students to explore roles in public schools and to gain experience in the organization and operation of schools, classrooms, and special services. The field placement allows students to work with pupils in public school settings that offer individual and group counseling; consultation with teachers, parents, and other school staff, and special accommodations for students with special needs. Students will work under the supervision of a credentialed school psychologist or school counselor at local school sites. A faculty supervisor from the School Psychology Training Program will work closely with students and field supervisor.
Note: May be repeated for credit.

Credit/No Credit

EDS 439B. Early Fieldwork in School Psychology. 1 - 10 Units
Prerequisite(s): Satisfactory completion of first year coursework and EDS 439A Graded: Credit / No Credit Units: 1.0 -10.0
Term Typically Offered: Fall, Spring

Advanced fieldwork experience providing the opportunity for students to engage in the following activities: individual and group counseling; consultation with teachers, parents, and other school staff, and assessment of students. Students will work under the supervision of a credentialed school psychologist. A faculty supervisor from the School Psychology Training Program will work with students and field supervisor.
Credit/No Credit

EDS 439C. Early Fieldwork in School Psychology. 1 - 10 Units
Prerequisite(s): Satisfactory completion of first year coursework and EDS 439B Graded: Credit / No Credit Units: 1.0 -10.0
Term Typically Offered: Fall, Spring

Ongoing fieldwork experience providing the opportunity for students to more fully develop their skills in: individual and group counseling; consultation with teachers, parents, and other school staff, and assessment of students. Students will work under the supervision of a credentialed school psychologist and a faculty supervisor from the School Psychology Training Program.
Credit/No Credit

EDS 440. Practicum in Individual Counseling/School Psychology. 3 Units
Prerequisite(s): Approval as a candidate in School Psychology program, approval of advisor, and department petition.
Term Typically Offered: Fall, Spring

Supervised practice in individual counseling.
Credit/No Credit

EDS 441. Internship in School Psychology. 3 - 15 Units
Prerequisite(s): Approval as a candidate in the School Psychology program, completion of courses required for the School Psychology Internship credential, approval of advisor, and department petition. May be repeated for credit.
Term Typically Offered: Fall, Spring

Directed field study for school psychologists. Supervised experiences are arranged in school psychology.
Credit/No Credit

EDS 441A. Internship in School Psychology. 3 - 15 Units
Prerequisite(s): Approval as a candidate in the School Psychology program, completion of courses required for the School Psychology Internship credential, approval of advisor, and department petition. Graded: Credit / No Credit Units: 3.0 - 15.0
Term Typically Offered: Fall, Spring

Directed field study for school psychologists. Supervised experiences are arranged in school psychology.
Credit/No Credit

EDS 441B. Internship in School Psychology. 3 - 15 Units
Prerequisite(s): EDS 441A Graded: Credit / No Credit Units: 3.0 -15.0
Term Typically Offered: Fall, Spring

Advanced field study for school psychologists interns. Supervised experiences are arranged in school psychology.
Credit/No Credit

EDS 441C. Internship in School Psychology. 3 - 15 Units
Prerequisite(s): EDS 441B Graded: Credit / No Credit Units: 3.0 - 15.0
Term Typically Offered: Fall, Spring

Third semester of advanced field study for school psychologist interns. Supervised experiences are arranged in school psychology.
Credit/No Credit

EDS 441D. Internship in School Psychology. 3 - 15 Units
Prerequisite(s): EDS 441C Graded: Credit/ No Credit Units: 3.0 - 15.0
Term Typically Offered: Fall, Spring

Fourth semester of advanced field study for school psychologists interns. Final semester in which candidates may accrue hours. Supervised experiences are arranged in school psychology.
Credit/No Credit

EDS 460. Practicum in Individual Counseling/VRC. 3 Units
Prerequisite(s): Approval as a candidate in the Vocational Rehabilitation program; approval of advisor, and department petition.
Term Typically Offered: Fall, Spring

Supervised practice in individual counseling.
Credit/No Credit

EDS 461. Field Study in Counseling/VRC. 3 - 15 Units
Prerequisite(s): Approval as a candidate in the Vocational Rehabilitation program, completion of core courses except EDS 560, EDS 561, or Comprehensive Examination (oral or written), approval of advisor, and department petition.
Term Typically Offered: Fall, Spring

Directed field study for rehabilitation counselors. Supervised experiences are arranged in rehabilitation counseling. Forty hours of experience required for each unit of credit.
Credit/No Credit

EDS 472E. Student Teaching: Serious Emotional Disturbance. 10 Units
Corequisite(s): EDS 277.
Term Typically Offered: Fall, Spring

Students will be placed in approved settings which serve students with serious emotional disturbance as a primary disability; be expected to demonstrate skills for instruction across content areas; interact with emotionally disturbed students using a combination of counseling and behavior management strategies; and consult with families, co-workers, mental health representatives and other in a collaborative style.
Credit/No Credit

EDS 530. Project In WDA I. 2 Units
Term Typically Offered: Fall, Spring

EDS 531. Project In WDA II. 4 Units
Term Typically Offered: Fall, Spring

EDS 540. Education Specialist Thesis: School Psychology. 4 - 6 Units
Term Typically Offered: Fall, Spring

Credit given upon successful completion of a thesis approved for the education specialist degree.
Note: Open only to the graduate students who have been advanced to candidacy for the education specialist degree. Number of units of credit is determined by the candidate's education specialist advisory committee.

Credit/No Credit

EDS 541. Master's Project: Education/School Psychology (Plan B). 4 - 6 Units
Prerequisite(s): Advanced to candidacy.
Term Typically Offered: Fall, Spring

Credit given upon successful completion of a project approved for the M.A. in Education/School Psychology option.

EDS 542. Education Specialist Project: School Psychology. 4 - 6 Units
Term Typically Offered: Fall, Spring

Credit given upon successful completion of a project approved for the Education Specialist degree.
Note: Open only to the graduate student who has been advanced to candidacy. Department petition is required. Number of units of credit is determined by the candidate's advisor.

Credit/No Credit

Spanish (SPAN)

SPAN 1A. Elementary Spanish. 4 Units
Term Typically Offered: Fall, Spring

Beginning Spanish language with primary emphasis on the development of audio-lingual skills. Attention will also be given to the interrelatedness of language and civilization and culture. Additional attention will be given to the development of reading and writing. Students will be expected to spend several hours per week in the language laboratory. Not recommended for students with any previous study of Spanish.

SPAN 1B. Elementary Spanish. 4 Units
Prerequisite(s): SPAN 1A, or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement, Humanities (Area C2)
Term Typically Offered: Fall, Spring

Continuation of SPAN 1A with a greater emphasis on the development of speaking, reading, writing, and listening skills. Cultural knowledge continues to be an important component: elements of Hispanic character, customs, and the way in which the Spanish and Latin American peoples view themselves and others in the world is studied.

SPAN 1C. Intensive Elementary Spanish. 6 Units
Prerequisite(s): Two years of high school Spanish or equivalent.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

This course emphasizes a rapid development of the four language skills--speaking, reading, writing, and listening--covered in the first two semesters of university Spanish. Cultural knowledge is also an important component of this course, and elements of Hispanic character, customs, and the way in which the Spanish and Latin American peoples view themselves and others in the world will be studied. Recommended for students who have had some previous study of Spanish, but need a quick review of the structures covered in the first two years of high school Spanish or the equivalent.

SPAN 2A. Intermediate Spanish. 4 Units
Prerequisite(s): One year of college Spanish, or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Oral, auditory, and written practice based on more advanced dialogue material and on short stories, plays, and the like. Attention to the development of reading fluency and to the extension of both active and passive vocabulary. Meets the Foreign Language Graduation Proficiency Requirement.

SPAN 2B. Intermediate Spanish. 4 Units
Prerequisite(s): SPAN 2A, suitable score on placement exam, or instructor permission.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Continuation of SPAN 2A. Meets the Foreign Language Graduation Proficiency Requirement.

SPAN 6A. Intermediate Spanish for Professionals I. 4 Units
Prerequisite(s): Three years of High School Spanish or instructor permission.
Term Typically Offered: Fall only

Conversational, reading and written practice based on dialogue material, presentations, and the like at the intermediate level of Spanish. The course includes specialized themes related to the professions, such as healthcare and related fields. Meets the Foreign Language Graduation Proficiency Requirement.

SPAN 6B. Intermediate Spanish for Professionals II. 4 Units
Prerequisite(s): SPAN 6A
Term Typically Offered: Spring only

Continuation of SPAN 6A. Students continue to practice conversational, reading and written practice based on dialogue material, presentations, and the like at the intermediate level of Spanish. The course will include specialized themes related to the professions, such as healthcare or related fields. Meets the Foreign Language Graduation Proficiency Requirement.
Note: Students will need to pay a fee to cover for the cost of the Spanish Proficiency Exam, which will be used for Assessment Purposes.

SPAN 7. Spanish Reading Proficiency. 3 Units
Prerequisite(s): SPAN 1A or two years of high school Spanish.
General Education Area/Graduation Requirement: Foreign Language Graduation Requirement
Term Typically Offered: Fall, Spring

Designed to improve Spanish reading proficiency. Students will acquire the ability to understand various types of materials written in Spanish (e.g. news items, personal correspondence, technical material, short stories); follow essential points and ideas of special interest or knowledge. Students will demonstrate Spanish reading comprehension by their ability to translate and answer content questions in Spanish as well as English.

SPAN 42. Conversation In Spanish. 3 Units
Prerequisite(s): SPAN 2B or equivalent, or instructor permission.
Term Typically Offered: Fall, Spring

Conducted in Spanish, will further develop the audio-lingual skills that the students have acquired in their early Spanish language training. Emphasis will be placed on maintaining ideas and concepts in actual conversation situations, taken from topics of most interest to students.

SPAN 47. Introduction to Composition and Grammar Review. 3 Units
Prerequisite(s): SPAN 2B or equivalent.
Term Typically Offered: Fall, Spring

Develops the necessary skills to write with clarity, precision, and style. It emphasizes the proper use of the accents and the correct use of grammar.

SPAN 100. Introduction to the Study of Hispanic Literature. 3 Units
Prerequisite(s): SPAN 47.
Term Typically Offered: Fall, Spring

Introduction to literary theory and a practical application of the techniques of literary criticism.

SPAN 102. Spanish Phonetics. 3 Units
Prerequisite(s): SPAN 47 or equivalent.
Term Typically Offered: Fall, Spring

Study of the sound system of Spanish with some attention to comparison with English and the physiology of sounds. Drills to develop good pronunciation.

SPAN 103. Advanced Spanish Grammar. 3 Units
Prerequisite(s): SPAN 47 or equivalent or a '5' on the Spanish Language AP exam.
Term Typically Offered: Fall, Spring

Study of the specific components of Spanish grammar with particular emphasis on the Spanish verbal system, the subjunctive, and other problematic aspects of grammar. Will be of particular interest to those planning to teach Spanish as well as to the Spanish-speaking students.

SPAN 106. Advanced Spanish Composition. 3 Units
Prerequisite(s): SPAN 103 and completion of all lower division requirements.
Term Typically Offered: Fall, Spring

Increased practice in writing with emphasis on sentence and paragraph structure, and compositions to effectively convey meaning and ideas. Attention will be given to narrative, descriptive, expository prose, and dialogue, as well as to letters and other forms of written communication.

SPAN 110. Survey of Spanish Literature to 1800. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Fall only

Advanced readings, lectures, and discussions dealing with a panoramic view of Spanish literature from early works through the Golden Age and up to the 1800s.

SPAN 111. Survey of Spanish Literature from 1800 to the Present. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only

Continuation of SPAN 110; deals with literature from the Neoclassic period to the contemporary. Readings taken from works and genres of this period.

SPAN 113. Latin American Literature, Beginnings to Modernism. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Fall only

Study of the major writers and trends in Latin American literature from beginnings until Modernism.

SPAN 114. Latin American Literature, Modernism to Present. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only

Study of the major writers and trends in Latin American literature from Modernism to the present.

SPAN 115. Magical Realism. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only

Magic and the wonderful infra-mythical world of major contemporary Latin America writers are explored in this in-depth study of Magical Realism. Short stories and novels are examined as they create a marvelous 'other world' or reality. Authors studied include Gortazar, Carpentier, Bombal, Borges, Rulfo, Garcia Marquez, Fuentes, Sainz, Esquivel, and others.

SPAN 121. Spanish For Professionals. 3 Units
Prerequisite(s): SPAN 2A or equivalent.
Term Typically Offered: Fall, Spring

Designed to teach present and future public servants the necessary vocabulary and structures for effective communication in interviews, visits, etc. Some attention to local dialect differences.

SPAN 123. Topics in Spanish Literature. 3 Units
Prerequisite(s): SPAN 100
Term Typically Offered: Fall only

Topics in literature from Spain offered as needed. Typical topics are: Spanish novel through the Golden Age; 19th and 20th century Spanish novel; Spanish drama from the Middle Ages to the Golden Age; Spanish Contemporary drama.
Note: May be repeated for credit provided topic is different.

SPAN 129. Spanish Civil War. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

In-depth examination of the Spanish Civil War (1936-1939) focusing on its social, political, and cultural contexts. The course also examines the war's historical origins, immediate aftermath and implications for understanding modern Spain.
Cross listed: HIST 136.

SPAN 130. Contemporary Mexican Literature. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only

Inquiry into the significance of the individual in contemporary Mexican culture and his greater relationship to the cosmos as seen through his literature. May be of particular interest to the Mexican American.

SPAN 134. The Short Story in Latin America. 3 Units
Prerequisite(s): SPAN 100.
Term Typically Offered: Spring only

Development of the short story in Latin America with some introductory study of the North American short story by way of comparison. Selected readings from different countries where the short story has had an important development. Emphasis on the contemporary short story.

SPAN 142. Advanced Spanish Conversation. 3 Units
Prerequisite(s): SPAN 47.
Term Typically Offered: Fall, Spring

Increases language fluency and acquisition of new vocabulary through intensive conversational practice, based on topics of contemporary interest.

SPAN 151. Civilization and Culture of Hispanic America. 3 Units
Prerequisite(s): SPAN 47
Term Typically Offered: Fall, Spring

Readings, visuals, and discussion of the history, geography, anthropology, sociology, politics, economics, folklore, and artistic expression of the nations of Hispanic America.

SPAN 152. Civilization and Culture of Spain. 3 Units
Prerequisite(s): SPAN 47
Term Typically Offered: Fall, Spring

Reading and discussion of the history, geography, anthropology, sociology, political science, economics, folklore, music, art, and the dance as these areas relate to Modern Spain.

SPAN 153. Civilization and Culture of Mexico. 3 Units
Prerequisite(s): SPAN 47
Term Typically Offered: Fall, Spring

Reading and discussion of the history, geography, anthropology, sociology, political science, economics, folklore, music, art, and the dance of Mexico.

SPAN 159. Cultures of Latin America for the Professions. 3 Units
Prerequisite(s): SPAN 6A, 6B, and SPAN 121 or instructor approval.
Term Typically Offered: Spring only

Readings, visuals, and discussion of Latino/Hispanic culture and cross-cultural practices variation within Latin America as related to healthcare and other professions such as Criminal Justice, Social Work, Sociology, and Psychology.
Note: Students will need to pay a fee to cover for the cost of the Spanish Proficiency Exam, which will be used for Assessment Purposes.

SPAN 194. Field Experience/Internship. 1 - 3 Units
Prerequisite(s): Intermediate competency in Spanish and instructor permission.
Term Typically Offered: Fall, Spring

Directed fieldwork in a project which uses the language skills developed through previous study of Spanish. The projects may include interpreting and translating for public and/or private agencies in Sacramento, teaching or tutoring in the community, or other projects approved by the faculty supervisor. All work will be monitored by Sacramento State faculty. The student must submit written reports to his/her supervisor. Can be taken more than once for credit.
Credit/No Credit

SPAN 195. Fieldwork -- Tutoring. 1 - 3 Units
Prerequisite(s): Advanced students with native or near-native fluency, upper division status ('U' exam), or instructor permission.
Term Typically Offered: Fall, Spring

Tutoring of lower division Spanish students, under the supervision of an instructor.
Credit/No Credit

SPAN 199. Special Problems. 1 - 3 Units
Prerequisite(s): Permission of instructor supervising work, the advisor, and the Department Chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who appear competent to carry on individual work, and enrollment will be limited to hardship cases.

Credit/No Credit

SPAN 201A. General Spanish Linguistics. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Depending upon the interest of the group, one topic of Spanish Linguistics will be chosen. The emphasis may be Comparative, Popular Spanish divergencies, or psycho- or socio-linguistics, especially the development of Mexican-American Spanish and the learning problems of bilinguals.

SPAN 201B. History of the Spanish Language. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Historical evolution of the Spanish language from Vulgar Latin to the present day with special emphasis on the phonetic and morphological changes involved in this evolution. Some attention will be devoted to Old Spanish readings as well as the differences between Old and Modern Spanish. Knowledge of Latin is helpful, but not required.

SPAN 201C. Contrastive Grammatical Structures of Spanish and English. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Analyzes the major differences between the grammatical system of Spanish and English, with particular emphasis on those areas of contrast which are vital to the teacher.

SPAN 201D. Applied Spanish Linguistics. 3 Units
Prerequisite(s): SPAN 102 and SPAN 103; or equivalent.
Term Typically Offered: Fall, Spring

Application of linguistic theory, principally to the areas of language teaching and learning acquisition. Occasionally the application of linguistics to other fields may be examined.

SPAN 220A. Spanish Literature in the Middle Ages. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 220B. Spanish Literature in the Golden Age. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 220C. Spanish Literature in the 18th and 19th Centuries. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 220D. Contemporary Spanish Literature. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Peninsular Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 224A. Spanish-American Literature to 1825. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Latin American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Beginnings of Spanish American Literature from the period of discovery and conquest through the colonial period until the end of the Wars of Independence in 1825. Covers the Renaissance, Baroque, and Neo-Classical Periods.

SPAN 224B. Spanish-American Literature, 1825 to 1880. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Latin American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Independence (1825) through 1880. Covers the following movements: Romanticism, Realism, and Naturalism and deals with selected authors.

SPAN 224C. Spanish-American Literature, 1880 to 1945. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Spanish American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 224D. Spanish-American Literature, 1945 to Present. 3 Units
Prerequisite(s): SPAN 100 and an upper division course in Spanish American Literature; or equivalent.
Term Typically Offered: Fall, Spring

Specific topic from this period will be chosen for intensive study as announced.

SPAN 250A. Civilization and Culture of Spain. 3 Units
Prerequisite(s): Graduate status with fluency in understanding, speaking, reading, and writing contemporary Spanish.
Term Typically Offered: Fall, Spring

Seminar examining aspects of the national character and personality of Spain as revealed through Hispanic social and literary studies from prehistory to 1700.

SPAN 250B. Civilization and Culture of Modern Spain. 3 Units
Prerequisite(s): Graduate status with fluency in understanding, speaking, reading, and writing contemporary Spanish.
Term Typically Offered: Fall, Spring

Seminar examining aspects of the character and personality of the various political, geographical, and cultural groups of Spain as revealed through the social and literary studies of Spain from 1700 to the present.

SPAN 250C. Civilization and Culture of Hispanic America. 3 Units
Prerequisite(s): Graduate status with fluency in understanding, speaking, reading, and writing contemporary Spanish.
Term Typically Offered: Fall, Spring

Seminar examining aspects of the character and personality of the various nations of Hispanic America as revealed through Hispanic-American social and literary studies. Attention will be given to the various ethnic groups found in Hispanic America.

SPAN 250D. Civilization and Culture of Mexico. 3 Units
Prerequisite(s): Graduate status with fluency in understanding, speaking, reading, and writing contemporary Spanish.
Term Typically Offered: Fall, Spring

Seminar examining aspects of the national character and personality of Mexico as revealed through Mexican social and literary studies.

SPAN 299. Special Problems. 1 - 3 Units
Prerequisite(s): Permission of instructor supervising work, the advisor, and the Department chair.
Term Typically Offered: Fall, Spring

Individual projects or directed reading.
Note: Open only to students who have the required number of units in residence and who appear competent to carry on individual work. Enrollment will be limited to hardship cases. Only 3 units of upper division or 3 units of graduate division credit will be accepted for any one degree in Spanish.

Credit/No Credit

SPAN 500. Culminating Experience. 1 - 4 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Completion of a thesis, project or comprehensive examination.

Speech Pathology and Audiology (SPHP)

SPHP 227. Dysphagia and the Medical Setting. 3 Units
Prerequisite(s): CSAD 218, CSAD 221, instructor permission.
Term Typically Offered: Fall, Spring

Swallowing problems from infancy through old age; growth patterns and failures in younger populations; feeding and swallowing problems related to normal aging processes and those associated with neurogenic disorders. Assessment and treatment. Includes theoretical and experiential components. Overview of the role of Speech-Language Pathologist in the hospital setting including learning how to read medical charts, basic insurance information, understanding other disciplines and how they affect the job and career of an SLP in the hospital, and medical terms/abbreviations.

SPHP 250. Speech/Language Internships Seminar. 2 Units
Prerequisite(s): CSAD 228A, CSAD 228B, CSAD 228C, CSAD 229A, CSAD 229B, CSAD 229C, CSAD 241S, CSAD 242A, CSAD 242B, CSAD 242C, CSAD 243A, CSAD 243B, CSAD 243C, CSAD 244, CSAD 245.
Corequisite(s): CSAD 295I, or CSAD 295M, or CSAD 295P, or CSAD 295S.
Term Typically Offered: Fall, Spring

Assessment, scheduling and conducting language speech and hearing programs in schools. Related issues including scope of practice, managed care, interagency cooperation and transdisciplinary approaches.

Statistics (STAT)

STAT 1. Introduction to Statistics. 3 Units
Prerequisite(s): Math 10 or a score of 51 or higher on a proctored ALEKS PPL exam.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring

Descriptive statistics, basic concepts of probability and sampling with the aim of introducing fundamental notions and techniques of statistical inference.

STAT 10A. Introductory Statistics with Developmental Mathematics. 3 Units
Term Typically Offered: Fall, Spring, Summer

Prepares students for STAT 10B that requires background in data analysis process, descriptive statistics and the concept of randomness. Topics include: Summarizing the data distribution graphically and numerically; reasoning about bivariate numerical data; linear correlation and regression; linear, quadratic and exponential functions as a way of modeling a correspondence between two variables; reasoning about bivariate categorical data; basic concepts of probability and the law of large numbers; conditional probability; discrete random variables; binomial distribution; and an introduction to continuous random variables. Lecture three hours.

STAT 10B. Introductory Statistics with Developmental Mathematics. 3 Units
Prerequisite(s): STAT 10A
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Spring only

Continuation of STAT 10A. Stat 10B prepares students for research methods applications/ courses in various disciplines. Topics include: Continuous random variables and normal distribution; sampling distributions and the central limit theorem; confidence intervals and tests of hypotheses for means, proportions, difference in means and difference in proportions; and chi-squared tests for categorical data analysis. Lecture three hours.

STAT 50. Introduction to Probability and Statistics. 4 Units
Prerequisite(s): MATH 26A, MATH 30, or appropriate high school based AP credit.
General Education Area/Graduation Requirement: Math Concepts & Quantitative Reasoning (B4)
Term Typically Offered: Fall, Spring, Summer

Sample spaces, combinatorics, and random variables. Density and distribution functions. Expectation, variance, and covariance. The binomial, uniform, poisson, negative binomial, hypergeometric, exponential, gamma, beta, and normal distributions. Sampling distributions, estimation, and hypothesis tests. Students are given periodic writing assignments which encourage them to think through concepts of the course.

STAT 96. Experimental Offerings in Statistics. 1 - 6 Units
Term Typically Offered: Fall, Spring

When there is a demand from a sufficient number of qualified students, one of the staff will conduct a seminar on some topic in statistics.

STAT 103. Intermediate Statistics. 3 Units
Prerequisite(s): STAT 50 or instructor consent
Term Typically Offered: Spring only – even years

Review of hypothesis testing --one sample. Hypothesis testing --two sample, variance. Regression and correlation. Analysis of variance including two-way. Analysis of categorical data. Non-parametric tests, goodness of fit, and tests for randomness.

STAT 115A. Introduction to Probability Theory. 3 Units
Prerequisite(s): MATH 31 and either STAT 1 or STAT 50
Term Typically Offered: Fall only

Probability axioms, discrete and continuous random variables, functions of random variables, joint densities, expectation, moment generating functions. Chebyshev's inequality, transformations, weak law of large numbers, central limit theorem.

STAT 115B. Introduction to Mathematical Statistics. 3 Units
Prerequisite(s): STAT 115A.
Term Typically Offered: Spring only

Point Estimation, interval estimation, hypothesis testing, the multivariate normal distribution, non-parametric tests.

STAT 128. Statistical Computing. 3 Units
Prerequisite(s): (STAT 1 or STAT 50) and (MATH 26A or MATH 30) or consent of the instructor.
Computer methods for accessing, transforming, summarizing, graphing and making statistical inferences from data; focus is on command-line statistical software, but menu-driven software may be introduced; application of computer methods to solve problems selected from the areas of modeling, simulation, inference and statistical learning.

STAT 155. Introduction to Techniques of Operations Research. 3 Units
Prerequisite(s): MATH 31; STAT 50, STAT 103, or STAT 115A; MATH 31 may be taken concurrently.
Term Typically Offered: Spring only – odd years

Formulation and analysis of mathematical models with emphasis on real systems applications. Introduction to Queueing theory and Markov Processes for application.

STAT 196J. Statistical Computing. 3 Units
Prerequisite(s): STAT 1 or STAT 50, and MATH 26A or MATH 30
Term Typically Offered: Fall only

Computer methods for accessing, transforming, summarizing, graphing, and making statistical inferences from data. Both a command-line statistical software package such as R and menu-driven package such as SAS will be used. Students will learn to apply computer methods to solve problems selected from the areas of modeling, simulation, inference and statistical learning. The intent of this course is to provide students with the software skills needed for statistical work in industry or academia.

STAT 199. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students who appear competent to carry on individual work. Admission to this course requires approval of the instructor in addition to the approval of the advisor and the Department Chair.
Credit/No Credit

STAT 215A. Introduction to Mathematical Statistics. 3 Units
Prerequisite(s): STAT 115A, STAT 115B; MATH 134 is recommended.
Term Typically Offered: Fall, Spring

Probability measure, conditional probability and independence, random variables, characteristic and moment-generating functions, modes of convergence.

STAT 215B. Topics in Introduction to Mathematical Statistics. 3 Units
Prerequisite(s): STAT 215A.
Term Typically Offered: Fall, Spring

Continuation of STAT 215A with topics selected from: Statistical Inference, Estimation Theory, Testing Hypotheses, Linear Models, Nonparametric Methods, Multivariate Analysis, Computer intensive methods in Statistics and Sampling Theory.
Note: May be taken twice with approval of Graduate Coordinator.

STAT 299. Special Problems. 1 - 6 Units
Term Typically Offered: Fall, Spring

Any properly qualified student who wishes to pursue a problem may do so if the proposed subject is acceptable to the department committee, the supervising instructor and the student's advisor.

Teacher Education (EDTE)

EDTE 214. Classroom Assessment and School Accountability Issues. 3 Units
Term Typically Offered: Fall, Spring

Focuses on classroom assessment, grounded in sound principles of measurement and evaluation of learning. Assessment is considered in the context of historical, social, political, legal, educational, and ethical trends, and concerns including reviews of socio-cultural diversity and individual differences as they relate to accurate appraisal of what learners know how to do.

EDTE 219A. Intro To Information Services. 3 Units
Term Typically Offered: Fall, Spring

EDTE 219G. Networks For School Lib Med Ct. 2 Units
Term Typically Offered: Fall, Spring

EDTE 219K. Eval & Sel Learn Res & Info Se. 3 Units
Term Typically Offered: Fall, Spring

EDTE 219L. Lit For Children/Lib Media Svc. 3 Units
Term Typically Offered: Fall, Spring

EDTE 219M. Mgmt School Library Media Cent. 3 Units
Term Typically Offered: Fall, Spring

EDTE 219N. Org Of Info & Learning Resourc. 3 Units
Term Typically Offered: Fall, Spring

EDTE 219P. Lib Media Ctr+Core Curriculum. 2 Units
Term Typically Offered: Fall, Spring

EDTE 219Z. Field Study School Librariansh. 2 - 4 Units
Term Typically Offered: Fall, Spring

Credit/No Credit

EDTE 220. Seminar in Mathematics Education. 3 Units
Term Typically Offered: Fall, Spring

Research of mathematical instruction trends, problems of teaching math and successful mathematics programs.

EDTE 221. Curriculum Development in Mathematics Education. 3 Units
Term Typically Offered: Fall, Spring

Examining successful curricular materials and techniques for use with slow, average and rapid learners of mathematics, and programs directed at the non-college-bound population. Creating materials for exceptional as well as for average learners.

EDTE 222. Teaching Mathematics in the Twenty-First Century. 3 Units
Term Typically Offered: Fall, Spring

Investigation of issues and trends being faced by elementary and secondary teachers in California. An overall goal is to develop a significant body of examples of successful mathematics teaching, designed to be useful with learners from all of California's diverse student population.

EDTE 225C. Theoretical Issues in Adult Literacies. 3 Units
Term Typically Offered: Fall, Spring

Introduces students to current theories surrounding the pedagogies and politics of adult literacies within a wide variety of contexts, including community colleges, prisons, and community projects. Incorporates information on technological literacies, information literacies, cultural literacies, and multiliteracies. In addition, students will be partnered with community literacy experts and required to complete formal observations of adult reading classrooms throughout the semester, fostering collaboration between the local community and the university. Cross-listed: ENGL 225C; only one may be counted for credit.

EDTE 226. Seminar: Strategies for Teachers. 3 Units
Term Typically Offered: Fall, Spring

Seminar focuses on analyzing various teaching strategies used in classrooms, K-12. Teaching strategies will be analyzed to identify teacher competencies and learning outcomes. Additional attention will be given to appropriate classroom management strategies.

EDTE 227. Seminar in Curriculum and Instruction, K-12. 3 Units
Term Typically Offered: Fall, Spring

Individual and group study of current programs, issues, trends and research in elementary and secondary instruction and curricular areas.

EDTE 228. Introduction to Ethnomathematics. 3 Units
Term Typically Offered: Fall, Spring

Students will learn aspects of mathematical modeling used to uncover mathematics as used in non-school contexts, a basic premise to ethnomathematics is that the mathematics found in other traditions is strongly influenced by, indeed reflects, a given individual's cultural heritage and world view. Students examine alternative mathematical thought practices of other, mainly nonwestern cultures; consider how mathematical topics that include cultural connections to numbering and systems of organization, geometry and perceptions of time and space.

EDTE 230. Introduction to Computers in the Classroom. 3 Units
Term Typically Offered: Fall, Spring

Practical introduction to the use and applications of computer-based technologies in the Kindergarten-twelfth grade classroom. Major topics include basic computer terminology and functions, educational software evaluation and integration into instruction, using telecommunication, multimedia authoring and issues relating to the impact of computers in a democratic society. No prior experience with computers required.

EDTE 232. Educational Applications of Computers. 3 Units
Prerequisite(s): EDMS 330 or EDS 291A and EDS 291B; or equivalent.
Term Typically Offered: Fall, Spring

Examines how application programs such as word processing, database management, spreadsheets and presentation tools can be used as part of the teaching, management and learning processes. Also includes instruction on the setup and management of telecommunications and classroom networks.

EDTE 233. Teaching Problem-Solving with Educational Technology. 3 Units
Prerequisite(s): EDTE 232 or equivalent.
Term Typically Offered: Fall, Spring

Examines the theoretical presuppositions underlying the use of educational technology to teach problem-solving, conditions under which problem-solving opportunities are likely to arise, computer programming as a problem-solving medium and the potential of software programs designed to teach problem-solving skills. Includes Internet-based problem-solving and principles of distributed learning.

EDTE 234. Curriculum and Staff Development with Educational Technology. 3 Units
Prerequisite(s): EDTE 232 or equivalent.
Term Typically Offered: Fall, Spring

Provides the student with an in-depth understanding of the principles and processes of analyzing curriculum for the purpose of integrating educational technology at the classroom, school and district levels. Students will analyze curricula, identify appropriate technology applications, and create plans for establishing, monitoring, and evaluating technology-based programs. Special emphasis will be placed on professional development.

EDTE 235. Enhancing Curriculum with Multimedia and the Web. 3 Units
Prerequisite(s): EDTE 232 or equivalent.
Term Typically Offered: Fall, Spring

Provides the student with an in-depth understanding of the principles of multimedia and web-based design. Students will apply these principles to developing curriculum for the technology-infused classroom. Intensive hands-on experience in the development of web and multimedia including video based on principles of human information processing and aesthetics.

EDTE 237. The Professional Lives of Teachers. 4 Units
Prerequisite(s): EDTE 226 and EDTE 251.
Term Typically Offered: Fall, Spring

Building upon the historical role of the position in society, the cultural influences that affect public and personal perception of teachers, the theoretical models of teaching, and research on teacher identity, participants will explore the continuum of a teacher's professional life (preservice, induction, professional growth, mentorship), teacher professionalism, and what teachers' professional lives look like in practice. Students will define their career stage and create a vision for the rest of their career in the field.

EDTE 238. Professional Development of Teachers in Democratic Schools. 4 Units
Prerequisite(s): EDTE 237.
Corequisite(s): EDTE 239.
Term Typically Offered: Fall, Spring

Examines contemporary issues in professional development for teachers. Students learn specific foundations and procedures for professional development that have well-documented effects on student achievement, e.g., professional learning communities. Students also analyze and design appropriate strategies for implementing and evaluating professional development for the contexts in which they are teaching as well as for a variety of other settings.

EDTE 239. Schools and Schooling in a World of Policy and Practices. 4 Units
Term Typically Offered: Fall, Spring

Beginning with a historical framework of reform, examines theories and models of school reform in the U.S. and international contexts. Students engage in researching and identifying how political and social forces impact the development of educational policy and reform initiatives. Using the lens of contemporary reform, students analyze recent school reform initiatives as well as the ideas and ideals of professional development within their own educational contexts.

EDTE 242. Key Issues in National Board Certification. 3 Units
Prerequisite(s): Admission to the Master of Arts In Education (Curriculum and Instruction) and the selection to the National Board Cohort.
Term Typically Offered: Fall, Spring

Through action research, professional reading and guided discussions, students will explore key elements of the National Board Standards including engaging student learning, assessment, decision making in lesson design, and identifying essential 'big ideas' in content areas.

EDTE 250I. Educational Research for IMET. 3 Units
Prerequisite(s): Acceptance into Master of Arts (Educational Technology).
Term Typically Offered: Fall, Spring

Studies qualitative and quantitative research methods in the field of education with special emphasis on educational technology. Includes identification and formulation of research problems, research designs and presentation of reports representative of different research strategies.

EDTE 251. Education for a Democratic, Pluralistic Society. 3 Units
Term Typically Offered: Fall, Spring

Advanced study of social and psychological issues which need to be considered in education relating to the client, the educator, the community and society. Addresses implications of theories of learning, assessment, individual differences, cultural, historical, philosophical, and social/political influences. Includes an overview of research and an introduction to APA formatting. Must be taken first semester in EDTE uncohorted Masters' program.

EDTE 251I. Education in Democratic, Pluralistic Society for Educational Technology. 3 Units
Prerequisite(s): Acceptance into MA in Education (Educational Technology) program.
Term Typically Offered: Fall, Spring

Advanced study of social and psychological issues which need to be considered in education relating to the client, the educator, the community, and society, with a focus on the effects of educational technology advancements and influences. Addresses implications of theories of learning, assessment, individual differences, cultural, historical, philosophical, and social/political influences.
Note: Fee course.

Fee course.

EDTE 258. Intersectionality and Media Literacy. 3 Units
Term Typically Offered: Fall, Spring, Summer

The course will explore relationships between popular Western media and the social constructions of race and gender. The course will examine interpretations of media portrayals, provide a critical analyses of media culture and media content, and consider what can be done to combat oppressive media narratives.

EDTE 262. Experiencing the Arts in Education. 3 Units
Prerequisite(s): Admission into the Masters of Arts in Education (Curriculum and Instruction) or instructor permission.
Term Typically Offered: Fall, Spring

Involves experiencing, appreciating and generating the arts. Develops a creative, collaborative community for learning and teaching through the arts which will be sustained throughout the Master of Arts in Education (Curriculum and Instruction) and beyond.

EDTE 263. Gender Leadership and Integrative Thinking. 3 Units
Term Typically Offered: Fall, Spring, Summer

This course explores methods of integrative thinking, holistic leadership practices, cultural perspectives, and mindful communication techniques for current and future leaders. This course defines leadership styles, explores gender dynamics in leadership and gives students the opportunity to apply integrative thinking models across multiple disciplines.

EDTE 266. Gender Constructs in Education. 3 Units
Term Typically Offered: Fall, Spring

Examination and analysis of methods, practices, and social construct prevalent in educational institutions and society and their ultimate effect on females and males, both as individuals and as a members of society. Students will examine the limiting factors in their own gender-role socialization and the dangers of perpetuating them in their own teaching or managerial practices.

EDTE 267. The Human Brain and Its Function for Effective Teaching and Learning. 3 Units
Prerequisite(s): Graduate status.
Term Typically Offered: Fall, Spring

Brain-based teaching and learning practices are related directly to the functions of the limbic system; the frontal, parietal, temporal and occipital lobes; and the reticular activating system, brainstem and vestibular apparatus. Students will understand why, from a brain perspective, certain learning/teaching practices are successful/unsuccessful.

EDTE 268. Theory and Practice of Gender Issues and Race. 3 Units
Term Typically Offered: Fall, Spring

This course is designed to enhance the understanding of theoretical frameworks on gender/race dynamics in education and society. Educational philosophy and history are examined in order to develop theoretical constructs for examining contemporary challenges. Using a theoretical lens, historical and modern day experiences of people of color will be of particular interest. This course will contribute to the graduate level coursework in the areas of education, gender equity, multiculturalism, and interdisciplinary studies.

EDTE 280A. Fundamentals of Online Pedagogy & Instructional Design. 3 Units

Prerequisite(s): Acceptance into MA in Education (Educational Technology) program.
Term Typically Offered: Fall, Spring

Introduces students to a variety of online instructional strategies, skills, and instructional design and their theories and practices. Will include an introduction to distributed education, including synchronous and asynchronous modes of instruction, and their applications to instruction.
Note: Fee course.

Fee course.

EDTE 280B. Instructional Design. 3 Units

Prerequisite(s): Acceptance into MA in Education (Educational Technology) program.
This course provides students with experiences to develop the knowledge, skills, and dispositions essential in the design of instruction that involves uses of technology for learning. Students will explore and apply instructional design processes and theories for analysis, planning, and evaluation of learning activities. Students will work together to develop learning activities that utilize multimedia technologies. Learning activities that students work to develop may include webinars, parts of a course or workshop, online learning, or others with the instructor's approval.
Note: Fee course.

Fee course.

EDTE 281. Tools and the Curriculum. 3 Units

Prerequisite(s): Acceptance into MA in Education (Educational Technology) program.
Term Typically Offered: Fall, Spring

Seamlessly blends basic technological applications with established areas of the curriculum. Students will , create and use an array of educational technology applications, including multimedia and interactive tools, as integrated facets of well-established teaching and design strategies. Learning and applying strategies to new and unique problem-solving including online learning and instructional situations is expected. In the process, students evaluate and synthesize theories of learning best suited to designing and developing instruction.
Note: Fee course.

Fee course.

EDTE 282. Strategies for Application and Presentation. 3 Units

Prerequisite(s): Acceptance into Master of Arts (Educational Technology).
Term Typically Offered: Fall, Spring

Develops techniques for presenting and teaching thinking skills and problem solving in schools. Students research social and cultural problems as well as local and curricular problems and apply teaching strategies that develop higher-order thinking processes. Inquiry and problem-based strategies are used and integrated with technological applications. Students design web-based units that focus on logic as well as creative thinking that lead toward a solution to curricular or social and cultural problems.

EDTE 283. Staff Development and Presentation Applications. 3 Units

Prerequisite(s): Acceptance into MA in Education (Educational Technology) program.
Term Typically Offered: Fall, Spring

Focuses on the need for staff development and on effective instructional practices. Explores the necessary elements that facilitate integrated technology to staff members. Students practice a variety of delivery methods for staff development that include multimedia, online resources, and hands-on integrated curricular activities that teachers or instructional leaders or designers can use within the organizational culture.
Note: Fee course.

Fee course.

EDTE 284. Problem Solving and Project Development. 3 Units

Prerequisite(s): Acceptance into Master of Arts (Educational Technology).
Term Typically Offered: Fall, Spring

Students will focus on integrating curriculum, equity, and/or staff development strands into an overall educational technology implementation strategy. Complex problem-solving techniques, research, distributed learning, methodology, and evaluation will be emphasized.

EDTE 285. Technology and Modern Practices. 3 Units

Prerequisite(s): Acceptance into Master of Arts (Educational Technology).
Term Typically Offered: Fall, Spring

Students will learn to understand, construct, and manage communications-based technologies in educational settings. Focuses on modern communications technology, terminology, educational practices, and instructional technology strategies. Emphasis will be placed on mentoring, management, and leadership.

EDTE 286. Special Topics in Educational Technology. 3 Units

Prerequisite(s): Acceptance into MA in Education (Educational Technology) program.
Term Typically Offered: Fall, Spring

Development and innovations in modern technology, especially as related to instructional design, teaching and learning. Composition will vary from semester to semester and over time. However, it will consistently utilize cutting-edge technology to support teaching, learning, and instructional design.
Note: Fee course.

Fee course.

EDTE 290. Seminar: Preparation of Master's Thesis/Project. 3 Units

Prerequisite(s): Approval of Master's Thesis Proposal or instructor permission
Term Typically Offered: Fall, Spring

Seminar course will focus on topics/elements/expectations to be included in the culminating experience: abstract writing, development of organizational schemes for the review of literature; format requirements; thesis/project planning; range and breadth of evidence for a comprehensive review; integrating the review with thesis/project; writing style and quality; revisions and critical feedback. Successful completion of the course requires the completion of Chapters 1 and 2 of the thesis/project and the beginning of Chapter 3. Graded: Credit/ No Credit
Credit/No Credit

EDTE 296O. Introduction to Response To Intervention/Instruction (RT12). 2 Units
Prerequisite(s): Must hold a minimum of a Bachelors Degree.
Term Typically Offered: Fall, Spring

This is the first course of three with the purpose of providing participants with an introduction to Response to Intervention/Instruction (RT12). Participants will gain knowledge of the state laws behind RT12, current implementation models, critical components and best practices in implementing a RT12 system. This course will lay a solid foundation of knowledge for the proceeding two courses of the RT12 certificate program.

EDTE 296P. Response To Intervention/Instruction (RT12): Assessment and Intervention. 4 Units
Prerequisite(s): Student must hold a minimum of a Bachelors Degree.
Term Typically Offered: Fall, Spring

Response to Instruction/Intervention (RT12) is a proactive approach to student learning that uses data to determine student need, monitor student progress, and make decisions about instructional changes to maximize student achievement and to address behavioral concerns. This course will examine the various methods of data collection, data analysis and research-based interventions found in an RT12 framework. Participants will be involved in real world Case Studies to apply RT12 practices at individual, school, and district levels.

EDTE 296Q. Response to Intervention: Practical Application. 3 Units
Prerequisite(s): Student must hold a minimum of a Bachelors degree and have completed EDTE 296O and EDTE 296P with a minimum C- grade or better to enroll in this course.
Term Typically Offered: Fall, Spring

This course is the culmination of courses EDTE 296O and EDTE 296P. It is a practicum course that will help students transfer new learning's from the previous two courses into a RTI plan of action for the classroom, site, or district. This course will help students further explore and research systems and practices in place at their site or district to help develop a RTI plan.

EDTE 298. Capstone. 3 Units
Prerequisite(s): Acceptance into MA in Education (Educational Technology) program and Advancement to Candidacy.
In the final course in the Educational Technology Master's program, students review, reflect, and discuss personal and professional evolution of program experiences, and create and present a final showcase. Students will select assignments from their courses to create a media-rich final ePortfolio that will be evaluated by both peers and faculty. Additionally students will discuss and present selected elements, of their Master's project developments with their cohorted peers, and identify methods to apply in disseminating results related to their Culminating Experience.
Note: Fee course.

Fee course.

EDTE 299. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects at graduate level especially for students capable of independent study. Admission by written approval of the instructor with whom the student will be working and the Department Chair.
Credit/No Credit

EDTE 329D. Helping Writing Happen. 1 - 3 Units
Term Typically Offered: Fall, Spring

EDTE 385. Foreign Languages in the Secondary School. 3 Units
Term Typically Offered: Fall, Spring

Problems of teaching foreign language; evaluation of methods in the light of objectives; discussion of techniques and source materials. Should be taken prior to or with student teaching. Discussion, participation in such classroom activities as panel discussions, presentations and demonstrations.
Cross listed: FORL 385

EDTE 505. Culminating Experience: Curriculum and Instruction. 3 Units
Prerequisite(s): Advanced to candidacy and permission of his/her faculty advisor and the department chair one full semester prior to registration. EDTE 250 and EDTE 290.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree.

EDTE 506. Culminating Experience: Behavioral Sciences - Women's Studies. 3 Units
Prerequisite(s): Advanced to candidacy and permission of his/her faculty advisor and the department chair one full semester prior to registration. EDTE 250 and EDTE 290.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree.

EDTE 507. Culminating Experience: Educational Technology. 3 Units
Prerequisite(s): Advanced to candidacy and permission of the faculty advisor and department chair one full semester prior to registration.
Term Typically Offered: Fall, Spring

Completion of a thesis or project approved for the Master's degree.

Theatre (THEA)

THEA 1. Introduction To Theatre. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Primarily for non-majors interested in acquiring a background of information in theatre. Plays, history, acting theories, technical methods and people in the theatre. Lectures, demonstrations and discussions will characterize the greater portion of the course.

THEA 2. History of the Theatre: Ancient to Renaissance. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall only

Broad survey of the nature and development of theatrical performance from ancient times through the Renaissance which emphasizes the relationship between theatre and the larger philosophical social and political concerns of its time.

THEA 3. Theatre History After 1660. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Spring only

Investigates the relationship between the development of theatre styles, structures and institutions, and philosophical, political, and cultural practices after 1660. Considers plays, production styles, theatre as an institution, and issues of representation of gender, race and class.

THEA 5. Aesthetics of Theatre and Film. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Interpretations of seminal dramatic scripts emphasizing the aesthetics of the theatrical art in relation to the cinematic medium.

THEA 9. Appreciation Of Acting. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Examination of the art of acting, including a review of actors and acting - past and present. Basic exercises in voice and diction, movement, and character will be utilized.

THEA 11. Acting Study I. 3 Units
Prerequisite(s): Theatre and Dance Majors or Minors or instructor permission.
Term Typically Offered: Fall, Spring

An introduction to, and a solid working foundation of, the basic building blocks of the acting craft. Through ensemble building, personal reflection, physical commitment, and vocal awareness exercises, students have the opportunity to improve and grow as an actor in both individual and partnered performance. Key learning goals include the ability to understand, interpret and execute the foundational elements of drama (plot, character, thought, and language).

THEA 14. Stage Makeup and Costume Construction. 3 Units
Term Typically Offered: Fall, Spring

This course provides a comprehensive look at the technical side of stage makeup and stage costumes, with an emphasis on makeup application and costume construction. Students learn use of materials, equipment, theatre terminology, and the practical aspects of costume and stage makeup realization. Students work on costume and makeup projects from start to finish in the makeup lab and costume shop.
Note: MAY NOT be taken concurrently with THEA 16 or THEA 20 without instructor permission.

THEA 16. Stagecraft. 3 Units
Term Typically Offered: Fall, Spring

Principles of scenic and stage prop construction, techniques of mounting and shifting stage scenery, and the study of ground plans and construction drawings for theatrical production. Lecture/lab activity.
Note: May not be taken concurrently with THEA 14 or THEA 20 without instructor permission.

THEA 20. Lighting. 3 Units
Term Typically Offered: Fall, Spring

Principles of stage lighting, fixtures, control and color. Introduction to basic concepts and practices of lighting design. Lecture/lab activity.
Note: May not be taken concurrently with THEA 14 or THEA 16 without instructor permission.

THEA 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students and seminar faculty to build a community of academic and personal support.

THEA 100. Script Analysis. 3 Units
Prerequisite(s): THEA 2, THEA 3
Corequisite(s): THEA 3
Term Typically Offered: Spring only

Through lecture and discussion, students explore the foundational elements of play scripts. The class investigates the structure of a play as well as its use of character, thought, plot, diction, song, and spectacle to analyze how a play's social and cultural elements inform potential productions.

THEA 102A. Voice and Movement I. 3 Units
Prerequisite(s): THEA 11.
Term Typically Offered: Fall, Spring

Introduction to the basic fundamentals of voice production and movement for the actor. Basic anatomy and physiology, relaxation, alignment, and breath work and its connection to movement. Feldenkrais, the Alexander Technique, and physical strengthening exercises are used in combination with vocal exercises to develop the actor's voice and body. Vocal and physical improvisation are introduced through various voice and movement exercises.

THEA 102B. Voice and Movement II. 3 Units
Prerequisite(s): THEA 11, THEA 102A or instructor permission.
Term Typically Offered: Fall, Spring

Strengthening and enhancing the vocal work developed in Voice and Movement I is continued with an in depth study of the International Phonetic Alphabet and its importance when performing heightened language plays. Solo presentation and a devised final ensemble project round out the course requirements.

THEA 104. Acting Study II. 3 Units
Prerequisite(s): THEA 11, THEA 102A or instructor permission.
Term Typically Offered: Fall, Spring

To further develop the basic concepts of acting through scene work from the American modern repertoire. Particular emphasis is placed on the importance of a play's given circumstances, and the commitment required to make bold, active tactic choices when developing a character. Further investigation of the actor's process in analyzing text and incorporating research through character analysis, as it ties into performance, are explored.

THEA 106. Latin American Film. 3 Units
Term Typically Offered: Fall, Spring

Exploration of the major movements in Latin American cinema beginning with the initial impetus of the Argentine and Mexican film industry of the late 1940's and the relationship of their aesthetic formulas to the cultural and socio/political climate of major Latin American nations.

THEA 107. Directing. 3 Units
Prerequisite(s): THEA 2, THEA 3, THEA 11, THEA 14, THEA 16, THEA 20, THEA 100
Term Typically Offered: Fall only

Practical experience in production procedures, characterization and basic principles of play direction. Analyzes directing techniques. Class typically attends a rehearsal and performance at Capital Stage (professional theatre in Midtown).
Note: Field trip.

Field trip(s) may be required.

THEA 109. Musical Theatre. 3 Units
Prerequisite(s): THEA 11
Term Typically Offered: Spring only

Practical study in singer-actor performance techniques. Major consideration is given to coordination of gesture and/or choreography, dialogue, melody, and lyric.

THEA 110. Acting Study III: Advanced Acting. 3 Units
Prerequisite(s): THEA 11, THEA 102A and/or THEA 102B, THEA 104 or instructor permission.
Term Typically Offered: Fall, Spring

The study of ways to research, rehearse and perform advanced acting styles and techniques with an emphasis on text analysis, given circumstances, subtext, and heightened language.
Note: May be taken twice for credit.

THEA 111. Audition Technique. 3 Units
Prerequisite(s): THEA 11, THEA 102A &/OR THEA 102B, THEA 104; Musical Theatre minors must also take THEA 109.
Term Typically Offered: Spring only

An in-depth study of the business of becoming a working professional actor and the techniques needed when auditioning for a professional theatre company. Students prepare an audition repertoire that is appropriate to their age and type; audition for a panel of theatre professionals and receive feedback for both areas of skill and those needing improvement. Resumes, headshots, trade papers, skill sets, and financial budgeting are examples of the areas included within the content of this course. An introduction to television/commercial and musical theatre audition techniques is also incorporated.

THEA 113. Acting Styles: Shakespeare. 3 Units
Prerequisite(s): THEA 11, THEA 102A &/or THEA 102B, THEA 104
Term Typically Offered: Fall, Spring

Designed to familiarize the intermediate acting student with the very specific demands of performing the works of William Shakespeare. Beginning with an in-depth study of the structure and meter of verse poetry, THEA 113 provides the vocal, physical, and analytical tools with which to approach this material in an intelligent and confident manner. Scene and monologue work is detailed and extensive.

THEA 115. Puppetry. 3 Units
Term Typically Offered: Fall, Spring

Play production with puppets. Practical work in constructing and manipulating various kinds of puppets. Simple puppets for use at elementary level; hand puppet production. Lecture/lab activity.

THEA 115A. Multicultural Puppetry. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Fall, Spring

Multicultural puppetry was developed to introduce the student to the techniques and construction of puppetry and its use in a multicultural setting. Puppetry has been found to be an excellent tool for the teaching of multiculturalism to children. Emphasizes the methodology in the development of multicultural/multilingual scripts and their use in the implementation of curriculum. The ability to speak a second language is not a prerequisite.

THEA 118. Children's Theatre. 3 Units
Term Typically Offered: Fall, Spring

Study of special problems and techniques in the production of formal and improvisational drama for children; a consideration of techniques, methods and materials for use in the classroom to support and supplement curricular goals.

THEA 120A. Practicum in Technical Production. 1 Unit
Term Typically Offered: Fall, Spring

Practical experience in handling technical stagecraft problems, stage management, and crew management. Activity and participation in major productions. Four hours per week minimum required in workshop.
Note: THEA 120A requires students to work on one departmental production a semester for a minimum of 4 hours/week; may be repeated for credit.

THEA 120B. Practicum in Technical Production. 2 Units
Term Typically Offered: Fall, Spring

Practical experience in handling technical stagecraft problems, stage management, crew management. Activity and participation in major productions. Eight hours minimum a week required workshop.
Note: THEA 120B requires student to work on two departmental productions a semester for a minimum of 8 hours/week; may be repeated for credit.

THEA 120C. Practicum in Technical Production. 3 Units
Term Typically Offered: Fall, Spring

Practical experience in handling technical stagecraft problems, stage management, and crew management. Activity and participation in major productions. 12 hours minimum a week required work shop.
Note: THEA 120C requires students to work on three departmental productions a semester for 12 hours/week; may be repeated for credit.

THEA 121. Rehearsal and Performance. 1 Unit
Term Typically Offered: Fall, Spring

Participation in the preparation, rehearsal and performance of a departmental production. Approximately 50 hours of participation (including rehearsal and performance time) for one unit of credit. Admission by audition. A total of six undergraduate units may be taken.

THEA 123. Lighting and Set Design. 3 Units
Prerequisite(s): THEA 16 and THEA 20 or instructor permission.
Term Typically Offered: Fall, Spring

Advancement in the methods of developing concepts for and of productions involving analysis of the script, research and spatial awareness in relation to scenic and lighting design.

THEA 131. Costume Design. 3 Units
Term Typically Offered: Spring only

Study of costume history, design elements, play and character analysis, rendering and presentation techniques, and production procedures. Practical experience in the basics of costume construction with a focus on character interpretation and collaboration with other theatre artists.

THEA 140. Black Drama in the African Diaspora. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Survey of the contributions of theatre artists in the African Diaspora. The reading list includes dramas from Africa, the Caribbean and United Stats and focuses on how social, cultural, and political climates influence Black Drama.

THEA 144. Women and Theatre: Staging Diversity. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Fall, Spring

Survey and performance course that focuses on identity theories and the contributions of contemporary female theatre artists. Lecture two hours; lab two hours.
Cross Listed: WOMS 144; only one may be counted for credit.

THEA 155. Contemporary World Cinema. 3 Units
Term Typically Offered: Fall, Spring

A historical review of the development of major international film styles and themes. Theoretical and critical concepts derived from this study of international film and then used as the basis to analyze contemporary films of South America, Europe, India, East Asia, Africa and the Middle East. Emphasis is on both the development of formal film techniques and a comparison of the unique cultural values that shape the film narrative style.
Crosslisted: FILM 155

THEA 170. African American Theatre and Culture. 3 Units
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Arts (Area C1), Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Survey of African American theatre and drama as a reflection of African American history and culture from slavery to today. This is a writing-intensive course.

THEA 173. Contemporary Chicano/Latino Theatre: Themes and Performance 1965-Present. 3 Units
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Study of contemporary Chicano/Latino, Chicana/Latina theatre and drama from 1965 to the present, and its approaches toward performance. The course focuses on new trends, influences and new developments in playwriting, directing, performance styles, and its impact on the movie industry.

THEA 174. Multicultural Perspectives in American Theatre. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Fall, Spring

Study of the historical and artistic contributions of Native Americans, Chicano/Latinos, African-Americans and Asian-Americans to American Theatre. Focuses on a range of plays from various ethnic and racial groups, forming a multicultural classroom experience; specifically study groups, from 1965 to the present, and examine the cultural, sociological and political climate in which these plays were created.

THEA 175. Multicultural Perspectives in American Film. 3 Units
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Arts (Area C1)
Term Typically Offered: Fall, Spring

Study of the historical and artistic contributions of Native American, Chicano/Latino, African-Americans and Asian American to the American cinema. The course will concentrate on a range of films with an emphasis on multicultural theoretical and critical writings and will examine the cultural and socio-political climate in which these films were crafted.

THEA 190. Senior Production. 2 Units
Prerequisite(s): THEA 2, THEA 3, THEA 11, THEA 14, THEA 16, THEA 20, THEA 100, THEA 120A, THEA 104, THEA 107, THEA 120 (3 units), THEA 121 and THEA 123 or THEA 131.
Corequisite(s): THEA 120 (3 units) may be taken concurrently if needed
Term Typically Offered: Spring only

This capstone course provides practical experience in theatrical production by focusing on the foundational elements of play production and the collaborative page-to-page production process.

THEA 194. Theatre-Related Work Experience. 3 - 12 Units
Prerequisite(s): Consent of Department chair.
Term Typically Offered: Fall, Spring

Supervised employment in a company or producing agency working on theatre-related work, arranged through the Theatre and Dance Department and the Cooperative Education Program office. Requires preparation of application packet, completion of a 3-6 month full-time or part-time work assignment, and a written report. No more than 3 units will be counted towards the degree.
Note: Open only to upper division or graduate students with appropriate course preparation.

Credit/No Credit

THEA 195. Fieldwork. 2 - 3 Units
Prerequisite(s): Junior or Senior standing and permission of the instructor of record.
Term Typically Offered: Fall, Spring

Internship with local theatre company or arts organization that provides direct, supervised experience with different aspects of performance and/or theatre management. Requires students to maintain a journal and submit a final paper to faculty internship coordinator. Graded: Credit/ No Credit Units: 2.00 - 3.00
Credit/No Credit

THEA 199. Special Problems in Theatre. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Individual project or directed reading.
Note: Departmental petition required.

THEA 500. Culminating Experience. 3 Units
Prerequisite(s): Advanced to candidacy and permission of the graduate coordinator.
Term Typically Offered: Fall, Spring

Completion of a thesis, directing project, or playwriting project.

Women's Studies (WOMS)

WOMS 50. Introduction to Gender & Sexuality. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to basic concepts and issues informing studies in gender, gay, lesbian, bisexual and transsexual/gender (GLBT) identities. Classic and contemporary texts from different cultures will cover biological, historical and social constructions of gender and sexuality. Transformations in family and society, global and intersectional perspectives on GLBT identity, political activism, cultural and social perceptions of gender and sexuality will be discussed.

WOMS 75. Introduction to Disability Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

This course is an introduction to disability studies. An intersectional approach to knowledge construction about disability will be examined. This interdisciplinary study draws on humanities and social sciences, feminism, medical and scientific literature, and popular sources. How gender, race, class, sexuality, ethnicity, and nationality intersect with disability to shape experience will be analyzed. Historical and contemporary social movements and activism by people with disabilities will also be discussed.

WOMS 110. Introduction to Women's Movements in the United States. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

An examination of the institutional structures, practices and ideals contributing to feminist struggles, and achievements of women¿s movements in the United States. This course explores how factors of race, class, gender, and sexuality have contributed to the emergence of feminist consciousness and struggles for social justice in the United States from the nineteenth century to the present time.

WOMS 115. Introduction to Women's Studies. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall, Spring

Introduction to the origins and models of Women's Studies. Explores the significance of a new field of study, and examines the methods of interdisciplinary study. Provides an opportunity to read a number of Women's Studies 'classics' and to trace the development of feminist theory.

WOMS 118. Asian American Women. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Using an interdisciplinary approach, course offers a broad introduction to broad principle values and traditions shaping Asian American women's lives in the U.S. Examines cultural diversity, gender inequality and conflicts between traditions and social practices through critical analysis of literature, film and cultural theories as expressions of identity. Topics covered include: cultural heritage and philosophies, intergenerational conflict, transnationalism, gender roles and socio-economic practices. Comprehensive understanding principle factors governing Asian American women's lives at the nexus of Asian and American cultures. Cross-listed: ETHN 118.

WOMS 120. Mother Woman Person. 3 Units
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Fall only

This course applies principles of feminism to the study of motherhood as social institution and private experience. Students explore family, cultural and social values that influenced their mothers and grandmothers, analyzing the impact of social institutions on their own childhood and adulthood. Students develop awareness of the historic evolution of women's social and private roles and the changing emphasis on woman as mother, wife/sexual companion and wage earning person largely through African American women's social movements.

WOMS 121. Women Of The Middle East. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Provides an introduction to historical and contemporary conditions affecting women's lives and contributions to Middle Eastern societies. Readings will be framed with a focus on women within state systems and political life, economic activity, family systems, religious thought and law, health, arts and literature.

WOMS 125. Sex & Gender in South Asia. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

This course focuses on love, sex & gender in the cultures of South Asia starting with ancient times to the present. The influence of social customs, traditions, religion, and social class on human relationships will be examined using various texts and films. Gender and sexual identity, sexual desire, eroticism, sex role stereotyping, violence against women, gay and transgender people, subversive desires and the threat they post to patriarchal structures will be explored.

WOMS 133. Gender & Health. 3 Units
General Education Area/Graduation Requirement: Upper Division Further Studies in Area B5
Term Typically Offered: Fall only

This course explores feminist analyses of medicine. An intersectional approach to how medical science constructs knowledge about health will be examined. This interdisciplinary study draws on humanities and social sciences; feminism; medical, scientific, and clinical literature; popular sources; and web discourses. How gender, race, class, sexuality, ethnicity, nationality, and disability intersect and shape behavior and experience will be analyzed. Contemporary social movements and activism by women and LGBTQIA+ people will also be discussed.

WOMS 136. Gender, Race, and Class. **3 Units**
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: Race & Ethnicity Graduation Requirement (RE), Writing Intensive Graduation Requirement (WI), GE AREA D
Term Typically Offered: Fall, Spring

Designed to examine the effects of the dynamic interaction of gender, race, and class on women. The social construction of gender, race, and class will also be examined. Other topics to be discussed and researched are the effects of sexism, racism, and classicism on institutions such as academia, business, government, religion, and social movements. Also provides an analysis of effective techniques to end sexism, racism, and classicism.

WOMS 137. Women Of Color. **3 Units**
General Education Area/Graduation Requirement: GE AREA D, Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Examines the social, economic, and cultural uniqueness of various ethnic groups in the U.S. Includes discussion of definitions of sexism, racism, economic exploitation, feminism, and the nature and evolution of the women's movement in relation to women of color.

WOMS 138. Women and Work. **3 Units**
Prerequisite(s): GWAR certification before Fall 09; or WPJ score of 80+; or 3-unit placement in ENGL 109M or ENGL 109W; or 4-unit placement in ENGL 109M or ENGL 109W and co-enrollment in ENGL 109X; or WPJ score 70 or 71 and co-enrollment in ENGL 109X.
General Education Area/Graduation Requirement: GE AREA D, Writing Intensive Graduation Requirement (WI)
Term Typically Offered: Fall, Spring

Explores topics basic to discussion of women's paid and unpaid work from historical and crosscultural perspectives. Consideration is given to popular conceptions and stereotypes of work and 'women's issues' in the industrialized world; the private and public lives of women and men with emphasis on work and social realities; and the maintenance of patriarchy under capitalism, socialism and communism, with some possible feminist 'solutions.

WOMS 139. Violence Against Women. **3 Units**
General Education Area/Graduation Requirement: GE AREA D
Term Typically Offered: Spring only

Consider from an international feminist perspective the forms of violence directed at women. It will also look at contemporary attitudes towards women, children, power, aggression and sexuality. Topics include sexual assault; child abuse; medical violence; psychiatric violence; economic violence; and military violence. Also examines the ways in which women are individually and collectively combating these various forms of violence.

WOMS 144. Women and Theatre: Staging Diversity. **3 Units**
General Education Area/Graduation Requirement: Arts (Area C1), Race & Ethnicity Graduation Requirement (RE)
Term Typically Offered: Fall, Spring

Includes study of recent feminist performance theory and criticism and its application to acting, directing, and writing for the theatre. Students will participate in both lecture/discussion and activities, including the creation of a final performance. Lecture two hours; lab two hours. Cross Listed: THEA 144; only one may be counted for credit.

WOMS 145. Feminism and the Spirit. **3 Units**
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall only

Provides a critique of traditional patriarchal religions and traces women's participation in the evolution of the human spirit. Consideration is given to the history of Goddess religion and its resurgence in the contemporary world; sexism in institutionalized religions and the current advances women are making in the churches; and dimensions of woman spirit incorporated in today's feminist art and literature.

WOMS 146. Women In Art. **3 Units**
General Education Area/Graduation Requirement: Arts (Area C1)
Term Typically Offered: Fall, Spring

Study of the unique and important contributions of women to the visual arts (Renaissance to present) and their personal struggle toward success and recognition. The Women's Art Movement and its impact on education, museums and women's status in the arts are important topics of this class.

WOMS 147. Women's Global Issues. **3 Units**
Prerequisite(s): Minimum 45 units completed
Term Typically Offered: Fall, Spring

Provides a historical overview, as well as in-depth studies of the similarities and differences in feminist developments from an international perspective. Examples will be drawn from industrialized democracies, centrally planned socialist states, and third world countries. Pluralistic trends in feminist development within countries will also be examined with a view to understanding the differential impact of gender based discrimination on different categories of women.

WOMS 150. Introduction to Queer and Trans Studies. **3 Units**
Prerequisite(s): WOMS 50 or instructor permission.
Term Typically Offered: Fall, Spring

Introduces students to the fields of queer theory and trans theory from a transnational feminist perspective. Includes theoretical approaches to the history of sexuality and the politics of sexual and gender normativity. Places queer and trans studies in conversation with Native studies, dis/ability studies, postcolonial theory, critical race and ethnic studies, and feminist theory.

WOMS 166. Gender and Politics. 3 Units
Term Typically Offered: Spring only

This course examines the influence of socially constructed meanings of femininity and masculinity on the political participation of women, candidate selection, election campaigns, and electoral outcomes in executive and legislative offices in the U.S. and worldwide. Students will develop a rich understanding of the relationship between gender and women¿s political representation and analyze and discuss institutional, structural, cultural, and historical conditions associated with women¿s voting behavior, political advancement, leadership styles, and impacts of political representation on women.
Cross Listed: GOVT 166; only one may be counted for credit.

WOMS 172. LGBTQ Histories. 3 Units
Term Typically Offered: Spring only

This course provides an introduction to the study of lesbian, gay, bisexual, transgender, and queer (LGBTQ) histories. Uses an interdisciplinary and comparative approach to explore the historical emergence and development of LGBTQ identities, communities, and political movements. Includes theoretical analysis of the history of gender and sexuality and the practice of historical analysis.
Cross Listed: HIST 172; only one may be taken for credit.

WOMS 180. Seminar in Feminist Theory. 3 Units
Prerequisite(s): WOMS 110 or instructor permission.
Term Typically Offered: Fall, Spring

Advanced course providing detailed inquiry into specific feminist theories, including their conceptual framework and development, relationship to other political theories and application to the current practices of feminism.

WOMS 195A. Fieldwork in Women's Studies. 1 - 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Supervised experience in selected women's organizations and projects in the Sacramento area; for example, the Rape Crisis Center, Women Escaping a Violent Environment (WEAVE), Sacramento Women's Center.
Credit/No Credit

WOMS 199. Special Problems. 1 - 3 Units
Prerequisite(s): WOMS 115 and instructor permission.
Term Typically Offered: Fall, Spring

Supervised individual research projects or directed reading specifically related to Women's Studies topics. Should be taken by students who can work on an individual basis.
Credit/No Credit

WOMS 299. Special Research Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Supervised research projects and directed study specifically related to Women's Studies and taken on an individual basis by Graduate students in the Special Major Graduate Program.
Credit/No Credit

World Languages & Literatures (WLL)

WLL 15. World Literatures in Film. 3 Units
General Education Area/Graduation Requirement: Humanities (Area C2)
Term Typically Offered: Fall, Spring

Interpreting cinema as literary text, this course will explore, compare, and contrast diverse cultures through cinema. All films will be viewed in the original language with English subtitles. The focus will be on linguistic, cultural, and regional characteristics, values, and differences. This section will focus on cinematic interpretations of world literatures.

WLL 21. First Year Seminar: Becoming an Educated Person. 3 Units
General Education Area/Graduation Requirement: Understanding Personal Development (E)
Term Typically Offered: Fall, Spring

Introduction to the meaning of higher education, resources of the University, and skills for lifelong learning. Designed to help students develop academic success strategies and to improve information literacy, intercultural competence, and integrative thinking. Provides students with the opportunity to interact with fellow students build a community of academic and seminar faculty to and personal support.

WLL 120A. Language and written culture in Ancient Greece. 3 Units
Term Typically Offered: Fall, Spring

This isthe first part of the two-semester hybrid course on Ancient Greek language and written culture. The language component of the course is taught online through interactive language-teaching website, while the weekly meetings are mainly discussions on Ancient Greek texts in translation. The focus in this first part is on basic grammatical rules, the reading and construction of simple sentences, and the study of Greek written culture from its beginnings to the Classical Period.
Note: This course cannot be used to fulfill the undergraduate foreign language graduation requirement. Cross Listed: HIST 101A; only one may be counted for credit.

WLL 120B. Language and written culture in Ancient Greece. 3 Units
Prerequisite(s): WLL 120A
Term Typically Offered: Fall, Spring

This is the second part of a two-semester hybrid course on Ancient Greek language and written culture. The language component of the course is taught online through an interactive language-teaching website, while the weekly meetings are mainly discussions on Ancient Greek texts in translation. The focus in this second part is on advanced grammar, the reading and understanding of long passages, and the study of Greek written culture from the Classical Period to the Roman era.
Note: This course cannot be used to fulfill the undergraduate foreign language graduation requirement. Cross Listed: HIST 101B; only one may be counted for credit.

WLL 199. Special Problems. 1 - 3 Units
Prerequisite(s): Permission of instructor supervising work, the advisor, and the Department Chair.
Individual projects or directed reading. Open only to students who appear competent to carry on independent study.

WLL 385. Foreign Languages in the Secondary School. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Fall, Spring

Problems of teaching foreign language; evaluation of methods in the light of objectives; discussion of techniques and source materials. Should be taken prior to or with student teaching. Discussion, participation in such classroom activities as panel discussions, presentations and demonstrations.
Cross listed: EDTE 385.

WLL 385A. Methods in World Language Education, A. 1.5 Units
Corequisite(s): EDTE 474A
Term Typically Offered: Fall, Spring

This course is designed for candidates who are preparing to teach world languages in secondary school settings in California public schools. candidates will learn about current theoretical bases for second-language acquisition and how such theories inform classroom practice. Candidates have introductory opportunities to practice principles of learning from which teachers can draw as they make decisions about instruction. Lecture Discussion and simulation. Prerequisite Admission into the Single Subject Teacher Credential Program
Cross Listed: EDTE 385A; only one may be counted for credit.

WLL 385B. Methods in World Languages Education, B. 1.5 Units
Prerequisite(s): WLL 385A or EDTE 385A
Corequisite(s): EDTE 474B
Term Typically Offered: Fall, Spring

This course continues learning initiated in WLL 385A and is designed for candidates preparing to teach world languages in secondary school settings in California public schools. Candidates will learn additional methodologies for planning and delivering instruction in world languages. Candidates will practice instructional strategies and will design lessons. Candidates will implement assessments that capture student learning of key world language outcomes, including oral language and written language development and reading fluency. Strategies for teaching cultural appreciation are also embedded. Lecture, discussion and simulation.
Cross Listed: EDTE 385B; only one may be counted for credit.

FACULTY DIRECTORY

A

ADAMSON, FRANK (2018), Assistant Professor of Education, GPSE,B.A., New York University in Paris; M.A., Ph.D., Stanford University

AGUILAR, KIMBERLY (2018), Assistant Professor of Communication Studies, COMS,B.A., California State University, San Bernardino; M.A., California State University, San Bernardino; Ph.D The University of Utah

AHMED, ZAFOR (2018), Assistant Professor of Management Information Systems, BUS,B.S, M.S., Brock University, Ph.D. Carleton University, Ottowa, Canada

AINSWORTH, DALE W. (2014), Assistant Professor of Health Science, HLSC,B.A., Mississippi College; M.S., Pepperdine University; Ph.D., Saybrook University

AKUTSU, PHILLIP D. (2008), Professor of Psychology, PSYC,B.S., University of Washington; Ph.D. University of California, Los Angeles

AL-QAZZAZ, AYAD SAYID (1969), Professor of Sociology, SOC,B.A., University of Baghdad; M.A., University of California, Berkeley

ALEXANDER, KRISTEN (2002), Professor of Education, Undergraduate Studies in Education, UGSE,B.A., University of California, Riverside; Ph.D., University of California, Davis

ALLENDER, DALE (2014), Assistant Professor of Education, Teaching Credentials, TC,B.A. University of Wisconsin, Milwaukee; M.A., University of Iowa; Ph.D., University of Queensland, Australia

ALTMAN, ROBIN (2016), Assistant Professor of Biological Sciences, BIO,B.S., UC San Diego; Ph.D. UC Davis

ALTMANN, TANYA (2003), Professor of Nursing; Chair, School of Nursing, NURS,B.N., Memorial University; NFLD, Canada; M.S.N., Clarkson College; PhD, Duquesne University - Pennsylvania

AMATA, BENJAMIN T. (1985), Librarian, Reference, SP,B.A., California State University, Northridge; M.L.S., University of California, Berkeley

ANDERSEN-RODGERS, DAVID R. (2006), Professor of Political Science, POLS,B.A., Hampshire College, Amherst, Massachusetts; M.A., Ph.D., University of Maryland, College Park

ANDERSON, MIKAEL (2003), Professor of Construction Management; Chair, Department of Construction Management, CM,B.S., M.S., University of California, Davis; Registered Professional Engineer; Licensed General Contractor

ANDERSON, JOSEPH (1998), Professor of Social Work, SWRK,B.S., Shippensburg University, Pennsylvania; M.S.W., West Virginia University; M.ED., Shippensburg University, Pennsylvania; Ph.D., University of Maryland

ANDERSON-POWELL, AMY (1996), Lecturer of English, ENGL,B.A., M.A., California State University, Sacramento

ANKER, ANDREW K. (1996), Professor, Department of Design, Interior Design Program, DOD,B.A., State University of New York at Binghamton; M.Arch., Harvard Graduate School of Design; M. Env.Des., Yale School of Architecture

ANTONYAPPAN, JUDE (1998), Professor of Social Work, SWRK,P.U.C., Holy Cross College, University of Madurai; B.Sc., St. Mary's College; M.S.W., Stella Maris College, Ph.D., University of California, Berkeley

ARAD, BEHNAM S. (1997), Professor of Computer Science, CSC,B.S., University of Massachusetts, Lowell; M.S., Purdue University, West Lafayette, Indiana; Ph.D., Louisiana State University, Baton Rouge

ARELLANO, ADELE (1998), Professor of Education, Teaching Credentials, TC,B.A., Saint Mary's College of California, Moraga; M.A., California State University, Sacramento; Ph.D., Stanford University

ARGUELLO, TYLER M. (2014), Assistant Professor of Social Work, SWRK,B.A.S.W., B.A., M.S.W., Ph.D., University of Washington, Seattle

ARMSTRONG, RICHARD (2008), Assistant Professor of Civil Engineering, CE,B.S. University of Manitoba, Canada, M.S. Stanford University, Ph.D. University of California, Davis, CA Registered Civil Engineer

ARYANI, CYRUS (1988), Professor of Civil Engineering, CE,B.S., M.S., Ph.D., Utah State University; California Registered Civil Engineer

ASHTARI, SADAF (2017), Assistant Professor of Management Information Systems, BUS,B.A., Qazvin Azad University; M.A., Science and Research Azad University; Ph.D., Eastern Michigan University

ASSADI, POORIA (2017), Assistant Professor of Management, BUS,B.S., Iran University of Science and Technology; M.S., University of British Columbia; (Ph.D., Simon Fraser University - anticipated Summer 2018)

ATAMAZ, SERPIL (2017), Assistant Professor of History, HIST,B.A., Middle East Technical University; M.A., Ph.D. University of Arizona

AUGUST, RACHEL A. (1997), Professor of Psychology, PSYC,B.A., University of Virginia, Charlottesville; M.A., Ph.D., The Claremont Graduate School, Claremont, CA

AULT, STACEY (2018), Assistant Professor of Social Work, SWRK,B.A. Psychology, M.S.W., CSU, Sacramento; Ed.D., University of San Francisco

AUSTIN, PAULA (2015), Assistant Professor of History, HIST,B.A., New School for Social Research; M.A. North Carolina Central University; M.Phil, Ph.D., City University of New York

AYALA-LOPEZ, SARAY (2016), Assistant Professor of Philosophy, PHIL,B.A., University of Murcia, Spain; M.A., Ph.D., Autonomous University of Barcelona, Spain

B

BACH, SEUNG B. (2006), Professor of Strategic Management, BUS,B.S., M.S., Hanyang University; M.B.A., The George Washington University; Ph.D., University of Tennessee

BAGGER, JESSICA (2006), Professor of Human Resources Management, BUS,B.A., B.S.B.A., M.S., Ph.D., University of Arizona

BAHLMAN, JOSEPH (2017), Assistant Professor of Biological Sciences, BIO,B.S., University of California, Davis; Ph.D., Brown University

BAIOCCHI, ARTURO (2015), Assistant Professor of Social Work, SWRK,B.A., University of California ,Davis, MA University of Chicago, Ph.D, University of Minnesota

BAKER, SUSAN (2001), Professor of Education, Teaching Credentials, TC,B.A., Kenyon College, Gambier, Ohio; M.A., Ph.D., Stanford University

BAKER, DIAN (2006), Professor of Nursing, NURS,B.S.N., M.S.N., California State University, Sacramento; M.A., University of California, Davis; PhD, University of Hawaii

BAKER, BRIAN (2002), Professor of Ethnic Studies, ETHN,B.S., Northland College; M.A., Central Michigan University; M.A., Ph.D., Stanford University

BALDINI, FRED D. (1988), Professor of Kinesiology; Dean, College of Health and Human Services, KINS,B.A., M.A., California State University, Sacramento; Ph.D., Arizona State University

BALDUS, BRIAN (2013), Assistant Professor of Marketing, BUS,B.S., Brigham Young University; Ph.D., Michigan State University

BALTHAZARD, PIERRE (2015), Professor of Management Information Systems, BUS,B.Sc., McGill University; M.S., Ph.D., University of Arizona

BANKHEAD, TEIAHSHA (2002), Associate Professor of Social Work, SWRK,B.A., Syracuse University; M.S.W., Ph.D., University of California, Berkeley

BARAJAS, MANUEL (2002), Professor of Sociology, SOC,B.A., University of California, Davis; M.A., Ph.D., University of California, Riverside

BARANOWSKI, EDWARD (2002), Professor of Spanish, WLL,B.A., University of California, Santa Cruz; M.A., Middlebury College; Ph.D., University of Wisconsin-Madison

BARATA, DATA (2009), Associate Professor of Anthropology, ANTH,B.A., M.A. Addis Ababa University; Ph.D., University of Bergen, Norway

BARNIOL DURAN, RODOLFO (2017), Assistant Professor of Physics and Astronomy, PHYS,B.S., Instituto Tecnologio de Monterrey, Mexico; Ph.D., University of Texas at Austin

BARRANTI, CHRYSTAL C. RAMIREZ (2000), Professor of Social Work, SWRK,B.S., Santa Clara University; M.S., Ph.D. and M.S.W., The University of Georgia

BASS de MARTINEZ, BERNICE , Professor of Education, Graduate and Professional Studies in Education, GPSE,B.A., University of Northern Colorado; M.A., University o fNovrthern Colorado; Ph.D., University of Florida

BAUER, JOHANNES (2018), Assistant Professor of Chemistry, CHEM,Diploma (M.S.), Ph.D., Free University, Berlin, Germany

BAXTER, JAMES W. (2003), Professor of Biological Sciences, BIO,B.A., University of California, Santa Cruz; M.A., San Francisco State University; Ph.D., Rutgers University, New Brunswick

BAYARD, JEAN-PIERRE (1990), Professor of Electrical and Electronic Engineering, EEE,B.S., M.S.E.C.E., Ph.D., University of Massachusetts, Amherst

BAYNE, LORELEI (2005), Professor of Theatre and Dance; Chair, Department of Theatre and Dance, THEA,B.A., University of South Florida, Tampa; M.F.A., NYU/Teish School of the Arts, New York City

BAYNES, ANNA (2017), Assistant Professor of Computer Science, CSC,B.S., University of Washington, Seattle; M.S., Ph.D. University of Michigan, Ann Arbor

BECKER, ANDREA J. (2017), Assistant Professor of Kinesiology, KINS,B.A., M.A., California State University, Sacramento; Ph.D., University of Tennessee

BEDDOW, MARGARET (2008), Associate Professor of Education, Teaching Credentials and Undergraduate Studies in Education, TC, UGSE, B.A., M.A., California State University, Sacramento; Ph.D., University of California, Davis

BEGUE, GWENAELLE (2018), Assistant Professor of Kinesiology, KINS,M.S., Ph.D., Kinesiology School, Montpellier University, France

BELKHOUCHE, FETHI (2009), Associate Professor of Electrical and Electronic Engineering, EEE,B.S., M.S., Universite de Tlemcen, Algeria; M.S., Ph.D., Tulane University

BELLON, CHRISTINA M. (2002), Professor of Philosophy; Associate Dean of Budget and Assessment, College of Arts and Letters, PHIL,B.S., University of Toronto; M.A., Dalhousie University; Ph.D., University of Colorado, Boulder

BERG, ELLEN (2002), Professor of Sociology, SOC,B.A., University of Washington; M.S., Ph.D., Arizona State University

BERRIGAN, LEE P. (1986), Professor of Psychology, PSYC,A.B., University of California, Riverside; B.S., Providence College; M.B.A., Boston University; Ph.D., Washington University

BERSOLA-NUGYEN, IRENE (1997), Lecturer of Education, Undergraduate Studies in Education, UGSE,B.A., M.A., California State University, Sacramento; Ph.D., University of California, Davis

BERTA-AVILA, MARGARITA (2003), Professor of Education, Teaching Credentials, TC,B.A., University of California, Davis; M.A., Claremont Graduate University; Ed.D., University of San Francisco

BIAGETTI, STEPHANIE (2003), Professor of Education, Teaching Credentials; Chair, Teaching Credentials, TC,B.A., M.Ed., Ph.D., University of California, Los Angeles

BISHOP, JOYCE (2002), Associate Professor of Anthropology, ANTH,B.A., University of Denver; M.A., Ph.D., University of California, Berkeley

BLACKBURN, SAMANTHA (2014), Assistant Professor of Nursing, NURS,B.A., Swarthmore College; M.S.N., University of California, San Francisco; Ph.D, University of California, Davis

BLOCK, MATTHEW (2014), Assistant Professor of Physics and Astronomy, PHYS,B.S., Georgia Institute of Technology; M.A., Ph.D., University of California, Santa Barbara

BLUMBERG, STEPHEN (2003), Professor of Music, MUSC,B.A., M.A., University of California, San Diego; Ph.D., University of California, Berkeley

BOGAZIANOS, DIMITRI (2007), Associate Professor of Criminal Justice, CRJ,B.A., Purchase College, SUNY; M.A., University of Hawaii, Manoa; Ph.D., University of California, Irvine

BOHON, LISA (1990), Professor of Psychology, PSYC,B.A., Loyola Marymount University; M.A., Ph.D., University of California, Riverside

BONILLA, DIEGO (2001), Professor of Communication Studies, COMS,B.A., Instituto Tecnologico Autonomo de Mexico (ITAM), M.S., Ph.D., Syracuse University

BOOSALIS, CHRIS (2015), Professor of Education, Graduate and Professional Studies in Education; Program Coordinator, Curriculum & Instruction, GPSE,B.A., Augsburg College; M.A., Ph.D., Arizona State University

BOTA, MIGUEL (2017), Assistant Professor of Spanish, WLL,Licenciatura, Universitat Aut•noma de Barcelona, Spain; M.B.A. Esade Business School, Spain; M.A. Queen?s University, Canada; Ph.D. Stanford University

BOWIE, SYLVESTER (2002), Associate Professor of Social Work, SWRK,B.A., M.S.W., California State University, Sacramento; Ed.D., University of San Francisco

BRADLEY, ANNE (2003), Librarian, Reference, SP,B.B.A., University of North Dakota; M.L.I.S., University of Washington

BRADY, DEBRA (2003), Professor of Nursing, NURS,B.S.N., M.S.N., California State University, Sacramento; B.A., Fresno Pacific College; DNP, Case Western Reserve University-Ohio

BRAND, DENYS (2018), Assistant Professor of Psychology, PSYC,B.A., M.S., Ph.D., University of Auckland, New Zealand

BRAUNSTEIN, NADINE (2017), Assistant Professor of Family and Consumer Sciences; Dietetic Internship Director, FACS,B.S., Drexel University; M.S., MGH Institute of Health Professions; Ph.D., Boston University School of Medicine

BRAZO, ED (2002), Professor of Theatre and Dance, THEA,B.A., Montclair State College; M.A., Northeast Louisiana University

BREUNIG, MARY (2019), Assistant Professor of Recreation, Parks and Tourism Administration, RPTA,B.A., University of Wisconsin; M.S., Minnnesota State University; Ph.D., Lakehead University

BROCK, STEPHEN (2001), Professor of Education, Graduate and Professional Studies in Education; Program Coordinator, School Psychology, GPSE,B.S., University of Oregon; M.S., San Jose State University; Ph.D., University of California, Davis

BRODD, JEFFREY (1999), Professor of Humanities and Religious Studies, HRS,B.A., St. Olaf College; M.A., Ph.D., University of California, Santa Barbara

BROOKS, JACQUELINE D. (2016), Assistant Professor of Sociology, SOC,B.A., Miami University, Ohio; M.A., The Ohio State University; Phd.D. The Ohio State University

BROWN, BERNARD (2017), Assistant Professor of Theatre and Dance, THEA,BFA Purchase College, Purchase NY: MFA UCLA, Los Angeles, CA

BROWN, MATTHEW J. (2017), Assistant Professor of Kinesiology, KINS,B.S., M.S. Wilfred Laurier University; Ph.D., University of Waterloo

BROWN, LESLEY (2018), Associate Librarian, Head of User Services, SP,B.A., Michigan State University; M.S.L.I.S., Florida Stata University

BROWN, MARK B. (2003), Professor of Political Science, POLS,B.A., University of California, Santa Cruz; M.A., Ph.D., Rutgers University

BUCHAN, WENDY (2000), Professor of Family and Consumer Sciences, FACS,B.S, University of California, Davis

BUCHANAN, BRADLEY W. (2002), Professor of English, ENGL,B.A., McGill University; M.A., University of Toronto; Ph.D., Stanford University

BUCKMAN, ALYSON R. (2001), Professor of Humanities and Religious Studies; Chair, Department of Humanities and Religious Studies, HRS,B.A., Wheaton College; M.A., Ph.D., Purdue University

BUERKI, JEROME (2008), Associate Professor of Physics and Astronomy, PHYS,B.S., M.S., Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland; Ph.D., University of Fribourg, Switzerland

BUFFARD, NICOLE (2002), Professor of French, WLL,Licence d'Anglais, Universite de Caen, France; Certificat de Maitrise d' Anglais, Universite de Caen; Ph.D., University of California, Davis

BURGHART, DANIEL (2017), Assistant Professor of Economics, ECON,B.S., M.S., Oregon State University; Ph.D., University of Oregon

BURKE, CHLOE S. (2004), Associate Professor of History, HIST,B.A., University of California, San Diego; M.A., Ph.D., University of Michigan

BURKE, PAUL (2001), Lecturer in Sociology, SOC,B.A., University of California, San Diego; M.A. University of California, Berkeley

BURMEISTER, GAIL (2015), Assistant Professor of Nursing, NURS,B.S.C., University of Toronto; B.S.N., McMaster University; M.S.N.H., Clayton College; M.S.N., Regis University; DNP, Brandon University

BURRIS, JOYCE A. (1989), Professor of Social Work, SWRK,B.S., Kansas State University; M.S.W., M.A., California State University, Sacramento; Ph.D., Arizona State University

C

CALER, KYLE (2018), Assistant Professor of Social Work, SWRK,B.A., Philosophy, West Virginia Wesleyen College; M.S.W .(Clinical Focus) Temple University; Ph.D. Social Work, Rutgers University

CALTON, JEFFREY L. (2001), Professor of Psychology, PSYC,B.S., Southwest Missouri State University; M.A., Ph.D., University of Missouri

CAMARENA, CHRISTIE (2017), Assistant Professor of Nursing, NURS,B.S.N., California State University, Sacramento; M.S.N./I.N.F., University of Phoenix

CAMERON, REBECCA P. (2001), Professor of Psychology; Chair, Department of Psychology, PSYC,B.A., University of Pennsylvania, Philadelphia; M.A., Ph.D., Kent State University

CAMERON-WEDDING, RITA (2018), Professor of Ethnic Studies, ETHN, WOMS, B.A., Huron college, South Dakota; M.Ed., South Dakota State University, Ph.D., University of California, Santa Barbara

CANNON, PATRICK G. (2001), Professor of Political Science, POLS,B.A., College of William and Mary; M.A., Ph.D., Temple University

CANTON, CECIL (1991), Professor of Criminal Justice, CRJ,B.A., M.A., State University of New York at Stony Brook; M.A., Ed.D., Columbia University

CANTRELL, LISA (2017), Assistant Professor of Education, Undergraduate Studies in Education, UGSE,B.S., Furman University; Ph.D., Indiana University

CARDENAS-DOW, MELISSA (2017), Senior Assistant Librarian, Reference, SP,B.A., San Francisco State University; M.L.I.S., San Jose State University

CARINCI, SHERRIE (2002), Professor of Education, Undergraduate Studies in Education, UGSE,B.A., M.A., California State University, Long Beach; Ed.D., University of San Francisco

CARLE, BARBARA (2003), Professor of Italian, WLL,B.A., M.A., Ph.D., Columbia University

CARRIGAN, JACKIE A. (2001), Associate Professor of Sociology, SOC,B.A., M.A., New Mexico State University; Ph.D., University of Colorado, Boulder

CARTER, ROBIN (1988), Professor of Social Work; Interim Vice Provost (Faculty Affairs), SWRK,B.A., M.S.W., California State University, Sacramento; M.P.A., D.P.A., University of Southern California

CASTANEDA, CHRISTOPHER J. (1994), Professor of History, HIST,B.A., Rice University, Texas; M.A., Ph.D., University of Houston

CASTANEDA, TERRI (2001), Professor of Anthropology, ANTH,B.A., Texas A&M University; M.A., Ph.D., Rice University

CATLIN, ELIZABETH (2016), Assistant Professor of Accountancy, BUS,B.A., University of California, Davis; M. Law in Taxation, University of San Francisco; J.D., University of California, San Francisco

CATLIN, JESSE (2014), Associate Professor of Marketing, BUS,B.A., M.A., California State University, Sacramento; Ph.D., University of California, Irvine

CETIN, COSKUN (2006), Professor of Mathematics and Statistics, MATH,B.S., Bogazici University, Istanbul; Ph.D., University of Southern California

CHALMERS, KATHERINE (2006), Associate Professor of Economics, ECON,B.A., Texas Christian University; M.A., Ph.D., Colorado State University

CHANG, WEIDE 'WILLIE' (2002), Associate Professor of Computer Science, CSC,B.S., Chinese Culture University, Taipei, Taiwan; M.S., California State University, Sacramento; Ph.D., New Mexico Institute of Mining and Technology (New Mexico Tech), Socorro

CHAPLIN, MAE (2014), Assistant Professor of Education, Teaching Credentials, TC,B.A., University of Redlands; M.A., California State University, San Marcos; Ph.D. San Diego State University and Claremont Graduate University

CHAVEZ, JOSE (2004), Associate Professor of Education, Graduate and Professional Studies in Education, GPSE,B.A., San Diego State University; M.A., University of San Francisco; Ed.D., University of Southern California

CHEN, HAIQUAN 'VICTOR' (2011), Assistant Professor of Computer Science, CSC,B.E., M.S., Xian Jiaotong University, China; Ph.D., Auburn University, Alabama

CHENG, YUAN (2016), Assistant Professor of Computer Science, CSC,B.Eng., Huazhong University of Science and Technology, China; Ph.D., University of Texas, San Antonio

CHINEN, KENICHIRO (2001), Professor of International Business, BUS,B.S., Brigham Young University; M.B.A., Utah State University; Ph.D., New Mexico State University

CHIRAPRAVATI, PATTARATORN (2002), Professor of Art, ART,B.A., Silpakorn University, Bangkok, Thailand; M.A., Ohio State University; M.A., Ph.D., Cornell University

CHO, EUN MI (2002), Professor of Education, Teaching Credentials, TC,B.A., Korea Air and Correspondence University; M.A., California State University, Sacramento; Ed.D., University of San Francisco

CHOE-SMITH, CHONG (2016), Assistant Professor of Philosophy, PHIL,B.A., University of California, San Diego; J.D., University of California, Davis; M.A. (Theology), M.A. (Philosophy of Religion and Ethics), Biola University; M.A., Ph.D., Georgetown University

CHOI, BEOM-JIN (2004), Professor of Management Information Systems, BUS,B.A., Sungkyunkwan University; M.B.A., University of Minnesota; Ph.D., Arizona State University

CHOI, BEOMJOON 'PETER' (2007), Professor of Marketing, BUS,B.A., Sogang University; M.B.A., Seoul National University; Ph.D., University of Kansas

CHRISTY, DANIELLE (2012), Lecturer of Education, Graduate and Professional Studies in Education, GPSE,B.A., University of California, Davis; M.A., California State University, Sacramento

CHUNG, CHIA-JUNG (2004), Professor of Education, Teaching Credentials, TC,B.A., National Taipei Teachers College, Taiwan; M.S., Pennsylvania State University, State College; Ph.D., University of Iowa, Iowa City

CINTRON, JOSE (1988), Professor of Education, Teaching Credentials, TC,B.A., M.A.T., Purdue University; Ph.D., University of California, Santa Barbara

CIONCO, RICHARD M. (1998), Professor of Music, MUSC,B.M., M.M., Julliard School, New York

CLARAVALL, ERIC (2018), Assistant Professor of Education, Teaching Credentials, TC,B.A., M.A., Unviersity of Philippines Diliman, Quevon City, Philippines; M.A., University of Massachusetts, Lowell, MA; Ed.D., San Francisco State Unviversity, CA

CLARK, JOHN T. (2003), Associate Professor of English, ENGL,B.S., M.A., Ph.D., Georgetown University

CLARK-OATES, ANGELA (2015), Assistant Professor of English; Writing Programs Coordinator, ENGL,B.A., University of Texas at Austin; M.A., Texas State University; Ph.D., Arizona State University

CLARKE, RACHEL (2001), Professor of Art, ART,B.A. hons., Winchester School of Art, England; M.F.A., University of Southern Illinois

CLEMENTSON, DAVID (2017), Assistant Professor of Communication Studies, COMS,B.A., James Madison University; M.A., University of Miami, Ph.D., The Ohio State University

COHEN, AARON J. (1999), Professor of History, HIST,B.A., Pomona College; M.A., University of Oregon; Ph.D., The Johns Hopkins University

COLEMAN, RONALD M. (2001), Professor of Biological Sciences, BIO,B.S., University of British Columbia; M.S., Simon Fraser University; Ph.D., University of Toronto

COLEMAN-SALGADO, BRYAN (2004), Associate Professor of Physical Therapy; Academic Coordinator of Clinical Education, PT,B.A., Stanford University; M.S.P.T., Duke University; D.P.T., Massachusetts Institute of Health Professions

COLLADO, CINDY (2017), Assistant Professor of Education, Teaching Credentials, TC,B.A., Northwestern University; M.Ed. & Ph.D., University of Illinois, Chicago

COLLINS, CLINT (2019), Assistant Professor of Biological Sciences, BIO,B.S., University of Georgia; M.S. Georgia Southern University, Ph.D., University of California, Riverside

CONNELLY, ANDREW (2003), Professor of Art, ART,B.F.A., New York State College of Ceramics, Art and Design at Alfred University; M.F.A., University of Colorado at Boulder

CONRAD, SUZANNA (2016), Librarian; Associate Dean for Digital Technologies and Resource Management, University Library, SP,B.A. Cornell University, M.L.I.S. University of Illinois, Urbana-Champaign, M.B.A. University of East London

COOK, JERRY (2003), Professor of Family and Consumer Sciences, FACS,B.S., M.S., Ph.D., Utah State University

COPE, JONAS (2014), Assistant Professor of English; Literature Coordinator, ENGL,B.A., College of the Holy Cross; M.A., Fitchburg State University; Ph.D., University of Missouri

CORDEIRO, WILLIAM (2018), Professor of Business Administration; Dean, College of Business Administration, BUS,B.S., University of California, San Franciso; M.B.A., University of Southern California; M.A., Ph.D., The Claremont Graduate School

CORDOVA, TERESA A. (2000), Lecturer of English, ENGL,B.A., M.A., California State University, Sacramento

CORNER, DAVID R. (1995), Lecturer of Philosophy, PHIL,B.A., University of California, Berkeley; M.A., Ph.D., University of California, Santa Barbara

CORNWELL, KEVIN J. (1998), Professor of Geology, GEOL,B.S., University of Nebraska-Omaha; M.S., Texas Tech University; Ph.D., University of Nebraska-Lincoln

COUGHLIN, MIMI (2003), Professor of Education, Teaching Credentials, TC,B.A., M.A., Stanford University; Ph.D., Boston College

COWAN, GENI (1996), Professor of Education, Graduate and Professional Studies in Education; Graduate Coordinator; Program Coordinator, Higher Education Leadership, GPSE,B.A., Biola University, La Mirada; M.A., Professional School for Psychological Studies, San Diego; Ph.D., University of California, Santa Barbara

COX, JAMES H. (1999), Professor of Political Science; Chair, Department of Political Science, POLS,B.A., University of California, Los Angeles; M.A., Ph.D., University of North Carolina, Chapel Hill

CRAWFORD, ROBERT (2012), Assistant Professor of Biological Sciences, BIO,B.A., B.S., Ph.D., The Ohio State University

CRAWFORD, SUSAN M. (1998), Professor of Chemistry, CHEM,B.S., M.S., Illinois State University; Ph.D., University of California, Davis

CROISDALE, TIM (2008), Associate Professor of Criminal Justice, CRJ,B.A., University of the Fraser Valley; M.S., California State University, Sacramento; Ph.D., Simon Fraser University

CUMMINGS, JAY (2016), Assistant Professor of Mathematics and Statistics, MATH,B.S., University of Nebraska, Lincoln; M.A., Ph.D. University of California, San Diego

CURRY, SUSANNA (2018), Assistant Professor of Social Work, SWRK,B.A, Sociology & Anthropology, Earlham College; M.S. W., University of California, Los Angeles; Ph.D, Social Welfare, University of California, Los Angeles

CYRENNE, DE-LAINE (2012), Lecturer of Psychology, PSYC,B.A., M.A. California State University, Sacramento; Ph.D. University of St Andrews, Scotland, U.K.

D

D'ANGELO, LISA (2016), Assistant Professor of Communication Sciences and Disorders, CSAD,B.A., Univeristy of California, Santa Barbara; M.A., San Jose State University; Ph.D., University of California, Davis

DAI, JUN (2014), Assistant Professor of Computer Science, CSC,B.E., M.S., University of Science and Technology, China; Ph.D., Pennsylvania State University, Pennsylvania

DALEY, STEVEN E. (1999), Professor of Education, Teaching Credentials, TC,B.A., M.A., California State University, Dominguez Hills; Ph.D., University of California, Los Angeles

DALY, LANA (1995), Lecturer of Education, Teaching Credentials, TC,B.A., California State University, Chico; M.B.A., Pacific Oaks College

DAMMEL, EUGENE E. (1997), Associate Professor of Civil Engineering, CE,B.S., California State University, Chico; B.S., California State University, Hayward; M.S., Ph.D., University of California, Davis

DANG, MICHELLE (2006), Associate Professor of Nursing, NURS,B.S.N., San Francisco State University, M.S.N., California State University, Sacramento; Phd, University of California, Davis

DANTU, RAMAKRISHNA (2017), Assistant Professor of Management Information Systems, BUS,B.S., Osmania University; M.S., Indian Institute of Technology; MBA, University of Texas at Arlington; M.S., University of Texas at Arlington; Ph.D., University of Texas at Arlington

DATEL, ROBIN E. (2002), Professor of Geography, GEOG,B.A., University of California, Davis; M.A., Ph.D., University of Minnesota

DATWYLER, SHANNON L. (2004), Professor of Biological Sciences; Chair, Department of Biological Sciences, BIO,B.A., Willamette University; Ph.D., Ohio State University

DAVIDSON, TIMOTHY (2016), Assistant Professor of Biological Sciences, BIO,B.S. Corvalis; M.S. University of Oregon; Ph.D. Portland State University

DAVIES, PETER (1998), Lecturer of Political Science, POLS,B.A., MA., Ph.D., University of California, Davis

DAVIS, CHARLES J. (1982), Professor of Accountancy, BUS,B.S., M.A.S., Ph.D., University of Illinois; C.P.A.

DAVIS, TONIA (2017), Assistant Professor of Communication Sciences and Disorders, CSAD,B.A., Emory University; M.S., Vanderbilt University; Ph.D., Vanderbilt University

DEGRAFFENREID, WILLIAM C. (2002), Professor of Physics and Astronomy; Special Assistant to the President, PHYS,B.S., California State Polytechnic University; Ph.D., University of Maryland

DELACORTE, MICHAEL G. (1999), Professor of Anthropology; Chair, Department of Anthropology; Co-Director, Archaeological Research Center, ANTH,B.A., New York University; M.A., Ph.D., University of California, Davis

DELEHANT, CAROLYN A. (2006), Lecturer of English, ENGL,B.S.W., The Defiance College; M.A., California State University, Sacramento

DEMETRAL, DAVID (1983), Professor of Social Work, SWRK,B.A., Wabash College; M.A., University of the Pacific; M.S.W., Ph.D., (Social Work), Ph.D., (Psychology), University of Michigan, Ann Arbor

DENG, FENG (2008), Associate Professor of Accountancy, BUS,B.S.E., Shanghai Jiao Tong University; M.B.A., University of Northern Iowa; Ph.D., University of Memphis

DENMAN, DAVID (2001), Lecturer of Philosophy, PHIL,B.A., Boston College; M.A., Arizona State University; C.Phil, University of California, Davis; M.A., California State University Sacramento

DERTINGER, DOUG (2008), Associate Professor, Department of Design; Photography Program Coordinator, DOD,B.F.A., Colorado State University; M.F.A., Nova Scotia College of Art & Design

DEZFOULI, SHABNAM R. (2012), Lecturer of Kinesiology, KINS,B.S., University of California, Davis; M.S., California State University, Sacramento

DIAZ, HEATHER J. (2006), Professor of Health Science, HLSC,B.A., University of California, Riverside; M.P.H., Dr.P.H., Loma Linda University, California

DIAZ-ESCAMILLA, RAFAEL E. (2006), Associate Professor of Mathematics and Statistics, MATH,B.S., Universidad Autonoma de Yucatan; M.S. University of Wisconsin, Green Bay; Ph.D., Tulane University

DILLON, MARSHA J. (1969), Professor of Geography, GEOG,B.A., M.A., Ph.D., University of California, Berkeley

DILLON, WILLIAM A. (1964), Professor of Political Science, POLS,B.A., M.A., Ph.D., University of California, Berkeley

DILWORTH, GARY D. (1987), Professor of Music, MUSC,B.M., M.M., University of Cincinnati, College Conservatory of Music

DINIS, MARIA (2001), Professor of Social Work, SWRK,B.A., M.S.W., California State University, Sacramento; Ph.D., University of California, Berkeley

DiSARRO, BRIAN S. (2008), Associate Professor of Political Science, POLS,B.A., Eastern Connecticut State University; M.A., Ph.D., University of Iowa

DISILVESTRO, RUSSELL (2006), Professor of Philosophy; Chair, Department of Philosophy, PHIL,B.A., Indiana University; M.A., Biola University; M.A., Ph.D., Bowling Green State University

DIXON, ROY W. (1999), Professor of Chemistry; Chair, Department of Chemistry, CHEM,B.S., University of California, Davis; Ph.D., University of Washington

DOBSON, MONA (2000), Lecturer of English, ENGL,B.A., UC Davis; M.A., California State University Sacramento

DOMOKOS, ANDRAS (2004), Professor of Mathematics and Statistics, MATH,B.A., Doctoral Degree, Babes-Bolyai University, Romania; Ph.D., University of Pittsburg

DONAHUE, EDEN (2015), Assistant Professor of Nursing, NURS,B.S.N., California State University, Humboldt; M.S.N., California State University, Sacramento; D.N.P.CSU, Northern California Consortium

DOSCH, MYA (2018), Assistant Professor of Art, ART,BA with honors in Art History, Carleton College; M.Phil in Art History, Graduate School of the City University of NY; PhD in Art History, Graduate School of the City University of NY

DOSU, TABZEERA S. (2007), Librarian, Reference, SP,B.B.A., M.B.A., M.L.I.S., University of Wisconsin-Milwaukee

DOWDEN, BRADLEY (1985), Professor of Philosophy Emeritus, PHIL,

DOYNO, MARY (2014), Assistant Professor of Humanities and Religious Studies, HRS,B.A. University of California, Berkeley; M.A., Ph.D., Columbia University

DUBE, SMILE (1989), Professor of Economics, ECON,B.S., City University, London, England; M.S., Ph.D., University of Texas, Austin

DUBOIS, JOEL (2003), Professor of Humanities and Religious Studies, HRS,B.S., Northwestern University; M.T.S., Harvard Divinity School; Th.D., Harvard University

DUFF, MICHELLE (2008), Associate Professor, Department of Design; Interior Design Program Coordinator, DOD,B.F.A., Iowa State University; M.Arch., University of Wisconsin

DUGAN, MOLLY A. (2006), Professor of Communication Studies, COMS,B.A., University of California, Davis; M.S., Northwestern University

DUNN, SAMUEL J. (2018), Assistant Professor of English, ENGL,B.A., M.A., Brigham Young University; Ph.D., Purdue University

DURAN, ELVA (1990), Professor of Education, Teaching Credentials, TC,B.S., M.Ed., University of Texas, El Paso; Ph.D., University of Oregon, Eugene

DUROSKO, SUSAN (2001), Lecturer of English, ENGL,B.A., University of California, Irvine; M.A., California State University, Sacramento

DYM, JEFFREY A. (2000), Professor of History, HIST,B.A., Colby College; M.A., University of Michigan; Ph.D., University of Hawaii

E

EGGMAN, SUSAN T. (2001), Associate Professor of Social Work, SWRK,B.A., M.S.W., California State University, Stanislaus; Ph.D., Portland State University

EKE, ESTELLE M. (1990), Professor of Mechanical Engineering, ME,B.S., Purdue University; M.S., Ph.D., Rice University, Houston

ELCE, KIMBERLY (2002), Professor of Mathematics and Statistics, MATH,B.S., University of California, Davis; M.A., Ph.D., University of Oregon, Eugene

ELLIS, BASIA (2017), Assistant Professor of Education, Undergraduate Studies in Education, UGSE,B.A., Western University, London Ontario, M.A., Ph.D., University of Calgary

ELLISON, ERIN ROSE (2017), Assistant Professor of Psychology, PSYC,B.A., American University, Washington D.C.; M.A., Clark University, Massachusetts; M.S., Ph.D. University of California, Santa Cruz

ELSTOB, KEVIN (1999), Professor of French and Italian, WLL,B.A., Portsmouth Polytechnic, England; M.A., University of Strasbourg, France; Ph.D., University of California, Davis

ELTAYEB, MOHAMMED (2017), Assistant Professor of Electrical and Electronic Engineering, EEE,B.Eng., Sudan University of Science & Technology; MS King Fahd University of Petroleum and Minerals; Ph.D. University of Akron

ENDRIGA, MARYA C. (1997), Professor of Psychology; Associate Dean, College of Social Sciences and Interdisciplinary Studies, PSYC,B.A., University of California, Berkeley; Ph.D., University of Washington, Seattle

ERICKSON, ELIZABETH (2006), Professor of Recreation, Parks and Tourism Administration, RPTA,B.S., Texas Christian University; M.S., University of Arizona; Ph.D., West Virginia University

ERYILMAZ, EVREN (2017), Assistant Professor of Management Information Systems, BUS,B.S., Yildiz Technical University; M.S., Ferris State University; Ph.D., Claremont Graduate University

ESCAMILLA, RAFAEL (2002), Professor of Physical Therapy, PT,B.S., Linfield College, McMinnville, Oregon; M.S., Washington State University, Pullman; M.P.T., Elon University, North Carolina; Ph.D., Auburn University, Alabama

ESCOBAR, SUE (1999), Professor of Criminal Justice; Graduate Coordinator, CRJ,B.A., Hartwick College, New York; M.A., J.D., Ph.D., State University of New York at Buffalo

ESTIOKO, MARIO (2000), Professor, Department of Design, Graphic Design Program, DOD,B.A., M.A., California State University, Sacramento

ETTINGER, PATRICK W. (2000), Professor of History, HIST,B.A., University of Notre Dame; M.A., Ph.D., Indiana University

EVANS, ETHAN (2018), Assistant Professor of Social Work, SWRK,B.A., Sociology, Kent State University; M.S.W., California State University, Sacramento; Ph.D Sociology, University of California, Davis

F

FANETTI, SUSAN (2008), Professor of English; English Education Coordinator, ENGL,B.A., Southern Illinois University, Edwardville; M.A.T., Webster University; Ph.D., Saint Louis University

FARMER, YVETTE (2002), Associate Professor of Criminal Justice, CRJ,B.A., M.A., California State University, Fullerton; Ph.D., University of Washington

FAROUGHI, NIKROUZ (1987), Professor of Computer Science, CSC,B.S.C.E., Western Michigan University, Kalamazoo; M.S.C.S., M.E.E.E., Ph.D., Michigan State University, East Lansing

FELL, BENJAMIN (2008), Associate Professor of Civil Engineering; Chair, Department of Civil Engineering, CE,B.S., Renssaelaer Polytechnic Institute., M.S. Stanford, Ph.D., University of California, Davis

FELTEN, MICHELLE (2006), Professor of Theatre and Dance, THEA,B.A. University of California, Irvine; MFA, American Conservatory Theatre (ACT) San Francisco, CA

FERGUSON, ROXANNE (2006), Assistant Professor of Nursing, NURS,B.S.N., M.S.N., California State University, Sacramento

FERREIRA VAN LEER, KEVIN (2018), Assistant Professor of Education, Undergraduate Studies in Education, UGSE,B.A., Wagner College; Ph.D., Boston College

FIELDS, BRONWYN (2015), Assistant Professor of Nursing, NURS,General Nursing Certificate, Royal Hobart Hospital; B.Ed., University of Tasmania; MPH, University of New South Wales; Ph.D, University of California, Davis

FIGGESS, GARETH (2015), Assistant Professor of Construction Management, CM,B.S., M.S., California State University, Sacramento

FIGUEROA, JULIE (2004), Professor of Ethnic Studies, ETHN,B.A., University of California, Davis; M.A., University of California, Santa Cruz; Ph.D., University of California, Berkeley

FINN-ROMERO, DEBORAH (2017), Lecturer of Nursing, NURS,B.S.N., California State University, Chico.; M.S.N., California State University, Sacramento

FISHER, ROBIN (2003), Professor of Music, MUSC,B.A., Smith College; M.M., University of the Performing Arts, Vienna, Austria; D.M.A., University of Texas, Austin

FISHER, JACOB (2010), Associate Professor of Anthropology, ANTH,B.A., University of California at Santa Cruz; M.A., Ph.D, University of Washington

FLAMENBAUM, RACHEL (2017), Assistant Professor of Anthropology, ANTH,B.A., New York University; MA., Ph.D., University of California, Los Angeles

FLECK, JONATHAN (2018), Assistant Professor of Spanish, WLL,B.A., University of Chicago; Ph.D., University of Texas at Austin

FLICKER, SHARON (2018), Assistant Professor of Psychology, PSYC,B.S., Cornell University; M.S., Ph.D., University of New Mexico

FLICKINGER, PHILIP (2012), Assistant Professor of Theatre and Dance, THEA,B.A. Gustavus Adolphus College, St Peter, MN; MFA University of Colorado, Boulder, CO

FLOHR, SARAH (2002), Professor of Art, ART,B.F.A., Art Institute of Chicago; M.F.A., Yale University, School of Art

FLORES, ALMA (2018), Assistant Professor of Education, Undergraduate Studies in Education, UGSE,B.A., University of California, Los Angeles; M.A., University of Texas; Ph.D., University of California, Los Angeles

FOGARTY, JULIE (2004), Assistant Professor of Civil Engineering, CE,B.S. Johns Hopkins University, M.S. and PhD University of Michigan

FONG, TIMOTHY (1999), Professor of Ethnic Studies; Director, Liberal Studies and Social Science Programs, ETHN,B.A., M.P.A., California State University, Hayward; Ph.D., University of California, Berkeley

FORAN, JEFFERY (2013), Professor of Environmental Studies; Chair, Department of Environmental Studies, ENVS,B.S. University of Michigan, M.S. ,Central Michigan University, Ph.D., University of Florida

FORD, TIMOTHY (2009), Associate Professor of Economics, ECON,B.A., Tufts University, Massachusetts; M.B.A, Bentley College, Massachusetts; M.A., Ph.D., University of New Hampshire

FORREST, JOHN (2003), Professor, Department of Design, Graphic Design Program; Chair, Department of Design, DOD,B.S., M.A., Kent State University, Ohio

FOSS-SNOWDEN, MICHELE S. (2006), Professor of Communication Studies, COMS,B.A., Stanford University; M.A., University of California, Davis; Ph.D., University of Florida

FOWLER, DENVER , Assistant Professor of Education, Graduate and Professional Studies in Education,,

FOX, JAMES (2016), Associate Librarian, Head of Special Collections and University Archives, SP,B.A., UC Santa Cruz; M.A., University of Chicago; M.L.S., Columbia University

FRAGA, CATHERINE N. (1998), Lecturer of English, ENGL,B.A., Seattle University; M.A., California State University, Sacramento

FRANKENBACH, CHANTAL (2013), Assistant Professor of Music, MUSC,B.A., University of California, Irvine; M.A., Ph.D, University of California, Davis

FRAYSER, MARK (2010), Lecturer of Education, Graduate and Professional Studies in Education, GPSE,B.A., M.S., California State University, Sacramento

FULLER, ANNE (2008), Associate Professor of Strategic Management, BUS,B.Eng., M.S., Ph.D., Georgia Institute of Technology

FULLER, RYAN (2016), Assistant Professor of Management, BUS,B.A., Communication, University of California, Davis; M.B.A., Management, San Francisco State University; Ph.D., Communication, University of California, Santa Barbara

FULTON, JULIAN (2016), Assistant Professor of Environmental Studies, ENVS,B.A. University of Califronia, Berkeley, M.S. University of California, Berkeley, Ph.D. Unversity of California, Berkeley

FURTAK, SHARON (2012), Associate Professor of Psychology, PSYC,B.A., University of Massachusetts; M.S., M.Phil., Ph.D., Yale University

G

GAETA, LAURA (2018), Assistant Professor of Communication Sciences and Disorders, CSAD,B.A., Univeristy of Florida; B.S., University of Florida; Ph.D. University of Oklahoma

GALE, ELAINE E. (2006), Associate Professor of Communication Studies, COMS,B.A., Boston University; M.F.A., Antioch University; Ph.D., University of Denver

GALLET, CRAIG (2001), Professor of Economics, ECON,B.A., California State University, Sacramento; M.A., University of California, Davis; Ph.D., Iowa State University

GARCIA, JOSE (2018), Assistant Professor of Civil Engineering (2018), CE,B.S., M.S. and PhD University of Texas, Austin

GARCIA, WILLIAM (2015), Assistant Professor of Physical Therapy, PT,B.S., Northern Arizona University; M.P.T., College of Osteopathic Medicine of the Pacific, Pomona, CA; D.P.T., Evidence in Motion, Louisville, KY

GARCIA-NEVAREZ, ANA (2002), Associate Professor of Education, Undergraduate Studies in Education, UGSE,B.A., California State University, Northridge; M.Ed., Ph.D., Arizona State University

GARDNER, SHARYN (2005), Associate Professor of Organizational Behavior, BUS,B.A., University of California, Davis; Ph.D., University of Maryland

GARDNER, PAULA (1986), Professor of Education, Teaching Credentials, TC,B.S., Indiana University; M.A., California State University, Sacramento; Ph.D., University of San Francisco,

GARG, SARGAM (2017), Assistant Professor of Human Resources Management, BUS,B.A., Lady Shri Ram College; MBA, Amity Business School; M.S., University of Texas at Arlington; M.S., Rutgers University; Ph.D., Rutgers University

GASTON, JESSIE (1989), Professor of History, HIST,B.A., Occidental College; M.A., Ph.D., University of California, Los Angeles

GEE, KATHLEEN (2003), Professor of Education, Teaching Credentials, TC,B.A., University of California, Berkeley; M.A., San Francisco State University; Ph.D., University of California, Berkeley w/ San Francisco State University

GERMAN, JAMES D. (2018), Professor of History; Dean of Undergraduate Studies, HIST,B.A., Whitworth College; Ph.D. University of California, Riverside

GERVAIS, BRUCE R. (2003), Professor of Geography, GEOG,B.A., San Francisco State University; M.A., University of California, Davis; Ph.D., University of California, Los Angeles

GETTY, RYAN (2014), Assistant Professor of Criminal Justice, CRJ,B.A., M.A., University of Texas at Arlington; Ph.D., University of Texas at Dallas

GHANSAH, ISAAC (1987), Professor of Computer Science, CSC,B.S.E.E., University of Science and Technology, Ghana; M.S.E.E., Bradley University, Peoria, Illinois; Ph.D., Iowa State University, Ames

GHERMAN, BENJAMIN (2006), Professor of Chemistry, CHEM,B.S., Carnegie Mellon University; Ph.D., Columbia University

GHODRAT ABADI, MASOUD (2018), Assistant Professor of Civil Engineering (2018), CE,B.S. Tehran Polytechnic, M.S. Sharif University of Technology and PhD Oregon State University

GHOSAL, TORSA (2017), Assistant Professor of English, ENGL,B.A., St. Xavier's College; M.A., Ohio State; Ph.D., Ohio State University

GHOSH HAJRA, SAYONITA (2018), Assistant Professor of Mathematics and Statistics, MATH,B.Sc., M.Sc., M.Phil., University of Calcutta, India; M.A., University of Toledo; M.A., University of Georgia, Athens; Ph.D. University of Georgia, Athens

GIBBS, CAROLYN (2000), Professor, Department of Design, Interior Design Program; Chair, Department of Art, DOD, ART, B.Arch., Rhode Island School of Design; M.Arch., University of California, Berkeley

GIBBS, DAVID (2018), Associate Librarian, Head of Collection Management Services, SP,B.A., Duke University; M.A., New York University; M.A., University of Paris; M.L.I.S., University of California, Los Angeles

GIEGER, JASON C. (2001), Professor of English, ENGL,B.A., California State University, Fresno; M.A., Ph.D., Rutgers University

GIGUERE, DAVID (2019), Assistant Professor of Psychology, PSYC,B.A., University of Nevada Reno; M.A., Ph.D. ABD, Florida Atlantic University

GLEASON, LANI (2017), Assistant Professor of Biological Sciences, BIO,B.S., UC SanDiego; M.S. Ph.D., Scripps Institution of Oceanography, UC San Diego

GOLDSTENE, JAMES (2007), Lecturer of Environmental Studies, ENVS,B.A., M.A. California State University, Sacramento

GONSIER-GERDIN, JEAN (2003), Professor of Education, Teaching Credentials, TC,B.A., M.A., Stanford University; Ph.D., University of California, Berkeley w/ San Francisco State University

GONZALES, RACHAEL (2000), Professor of Education, Teaching Credentials, TC,B.A., Eastern New Mexico University; M.S., California State University, Hayward; Ed.D. University of San Francisco

GONZALEZ, AMBER (2013), Assistant Professor of Education, Undergraduate Studies in Education, UGSE,B.S., California State University, Fullerton; M.A., Ph.D., University of California, Santa Barbara

GONZALEZ, ENID T. (2008), Associate Professor of Biological Sciences; Director, Center for Math and Science Success, BIO,B.S., University of Minnesota-Twin Cities; Ph.D., University of Wisconsin

GONZALEZ, HENRY (2018), Assistant Professor of Family and Consumer Sciences, FACS,B.S., University of California, Davis; M.S., University of Arizona; Ph.D., University of Arizona

GORDON, V. SCOTT (2002), Professor of Computer Science, CSC,B.S., M.S., California State University, Sacramento; Ph.D., Colorado State University, Colorado

GORDON BIDDLE, KIMBERLY (2002), Associate Professor of Education, Undergraduate Studies in Education, UGSE,B.A., University of Redlands; M.A., Ph.D., Stanford University

GOSSETT, CHARLES W. (2009), Professor of Political Science & Public Policy and Administration Emeritus (2017), POLS,B.A. Hope College; M.A., Ph.D. Stanford University

GRAHAM-JOUGANATOS, SARAH (2016), Assistant Professor of Education, Graduate and Professional Studies in Education; Program Coordinator, TK-12 Educational Leadership, GPSE,B.A., M.A. California State Univeristy, Chico Ed.D. Sacramento State University

GRANDA, JOSE (1983), Professor of Mechanical Engineering, ME,B.S., National Polytechnical School, Ecuador, South America; M.S., University of California, Berkeley; Ph.D., University of California, Davis

GREEN, ERIN (2019), Assistant Professor of Physical Therapy, PT,B.A., University of California San Diego; M.S., DPT, University of California San Francisco

GREEN, RICKY (1998), Associate Professor of Ethnic Studies, ETHN,B.A., California State University, Sacramento; M.A., Ph.D., University of California, Santa Barbara

GREGORY, CANDACE (2003), Professor of History, HIST,B.A., Loyola University, New Orleans; M.A., Ph.D., Yale University

GRUSHKIN, DONALD (2001), Professor of Education, Undergraduate Studies in Education, UGSE,B.A., M.A., Gallaudet University; Ph.D., University of Arizona

GRUSHKIN, DONALD (2001), Professor of Education, Undergraduate Studies in Education, UGSE,B.A., Gallaudet College; M.A., Gallaudet University; Ph.D., University of Arizona

GU, FANG (2002), Librarian, Reference, SP,B.A., South East University, China; M.E.D., M.L.I.S., University of Illinois, Urbana-Champaign

GUADALUPE, KRISHNA L. (1999), Professor of Social Work, SWRK,B.A., Stockton State College; M.S.W., Rutgers University; Ph.D., University of South Carolina

GUTIERREZ, RICKY (2000), Professor of Criminal Justice, CRJ,B.A., Eastern Washington University; M.A., Washington State University; Ph.D., Washington State University, Pullman

H

HAGGE, DARLA (2013), Associate Professor of Communication Sciences and Disorders, CSAD,B.A., M.A., California State University, Fullerton; Ph.D., Chapman University

HAMILTON, TRACY (2002), Professor of Mathematics and Statistics, MATH,B.A., California State University, Sacramento; Ph.D., University of North Carolina, Chapel Hill

HAMMERSLEY, LISA (2003), Professor of Geology; Associate Dean, College of Natural Sciences and Mathematics, GEOL,B.S., University of Birmingham, England; Ph.D., University of California, Berkeley

HAN, YONGLIANG 'STANLEY' (2001), Associate Professor of Strategic Management, BUS,B.A., Peking University, Beijing; Ph.D., University of Southern California

HANNA, LYNN (2009), Associate Professor of Family and Consumer Sciences; Chair, Department of Family and Consumer Sciences, FACS,B.S., Ph.D., University of California, Davis

HANSEN, KAREN L. (2004), Professor of Construction Management and Civil Engineering, CM, CE, B.A., University of California, Berkeley; B.S., University of Washington; M.S., Ph.D., Stanford University

HARPER, ANNA (2017), Senior Assistant Librarian, Reference, SP,B.L.S., Portland State University; M.L.I.S., University of Denver

HARRISON, LISA A. (2001), Professor of Psychology, PSYC,B.A., University of North Carolina, Charlotte; M.A., Ph.D., University of Nebraska, Lincoln

HARVEY, IAN (2005), Professor of Art, ART,B.A., Wesleyan University; M.F.A., Columbia University

HAUSBACK, BRIAN P. (1985), Professor of Geology, GEOL,B.S., University of California, Los Angeles; Ph.D., University of California, Berkeley

HAYES, HOGAN (2015), Assistant Professor of English; GWAR Coordinator, ENGL,B.A., University of Wisconsin, Madison; M.A., Ph.D., University of California, Davis

HEATHER, JULIAN (2003), Professor of English; TESOL Coordinator, ENGL,M.A., University of Aberdeen, Scotland; M.A., Washington State University; Ph.D., University of Arizona

HECKATHORN, AMY C. (1999), Professor of English, ENGL,B.A., St. Mary's University, San Antonio; Ph.D., Texas Christian University

HECSH, JANET I. (1999), Professor of Education, Undergraduate Studies in Education, UGSE,B.A., University of California, Los Angeles; M.A. University of California, Davis; Ph.D., University of California, Davis

HEEDLEY, PERRY (2003), Professor of Electrical and Electronic Engineering, EEE,B.S., Georgia Institute of Technology, Atlanta; M.S., Ph.D., Auburn University, Alabama

HEILIG, JULIAN VASQUEZ (2014), Professor of Education, Educational Leadership; Director, Doctorate in Educational Leadership, GPSE,B.A., M.A., University of Michigan, Ann Arbor; Ph.D., Stanford University

HEINICKE, MEGAN (2013), Assistant Professor of Psychology, PSYC,B.S., Western Michigan University; M.S., Ph.D., Auburn University

HEMBREE, SHERI E. (1999), Professor of Education, Undergraduate Studies in Education; Chair, Undergraduate Studies in Education, UGSE,B.A., University of California, Santa Barbara; M.A., San Francisco State University; Ph.D., University of Wisconsin, Madison

HENS, SAMANTHA (2000), Professor of Anthropology, ANTH,B.A., State University of New York at Buffalo; M.A., Ph.D., University of Tennessee, Knoxville

HERTZOFF, ANDREW S. (2002), Associate Professor of Political Science, POLS,B.A., St. Johns College; Ph.D., University of Notre Dame

HEYER, JOHANNA (2019), Lecturer of Environmental Studies, ENVS,B.A., B.S., Ph.D. (Candidate), University of California, Los Angeles

HIBBARD, EVAN (2017), Assistant Professor of Education, Undergraduate Studies in Education, UGSE,B.S., Rochester Institute of Technology; M.S., University of Rochester; Ph.D., Ryerson University, Toronto Canada

HIGGINS, ABIGAIL (2018), Assistant Professor of Mathematics and Statistics, MATH,A.A., Columbia Basin College; B.S., Walla Walla University; M.S., Ph.D., Washington State University

HILLS, III, ERNIE M. (1984), Professor of Music; Director, School of Music, MUSC,B.M., University of Oklahoma; M.M., New England Conservatory, Boston; D.M.A., University of Oklahoma, Norman

HITCHCOCK, PHILIP S. (1976), Professor of Art; Director, University Library Gallery, ART,B.A., Whitworth College; M.F.A., Institute Allende

HOBBS, SUE (2017), Assistant Professor of Education, Undergraduate Studies in Education, UGSE,B.A., California State University, East Bay; M.A., University of the Pacific; Ph.D., University of California, Davis

HOFFMAN, JAMIE (2013), Associate Professor of Recreation, Parks and Tourism Administration, RPTA,B.S., University of Tennessee; M.S., University of Tennessee; Ed.D., California State University, Long Beach

HOLLAND, MELISSA (2013), Associate Professor of Education, Graduate and Professional Studies in Education; Fieldwork and Internship Coordinator, School Psychology, GPSE,B.A., U.C. Davis; M.S., Ph.D., Utah State University, Logan

HOLLAND, BRETT T. (2003), Professor of Biological Sciences, BIO,B.S., University of California, Davis; M.S., California State University, Sacramento; Ph.D., University of California, Santa Cruz

HOMEN, PATRICK (1982), Lecturer of Mechanical Engineering, ME,B.S., University of California, Davis

HORNER, TIMOTHY (1993), Professor of Geology; Chair, Department of Geology, GEOL,B.S., Bucknell University; M.S., Texas Tech University; Ph.D., The Ohio State University

HOUSTON, JACQUELINE (2011), Assistant Professor of Chemistry, CHEM,B.S., M.S., California State University, Sacramento; Ph.D., University of California, Davis

HOWARD, TIMOTHY L. (2006), Professor of Communication Studies, COMS,B.A., M.A., University of the Pacific

HUANG, HUI-JU (2002), Professor of Education, Teaching Credentials, TC,B.S., National Taiwan Normal University; M.S., University of Iowa; Ph.D., University of Illinois, Urbana-Champaign

HUANG, SHIHLUNG (2005), Associate Professor of Criminal Justice, CRJ,B.A., National Police University, Taiwan; M.A., Ph.D., Sam Houston State University

HUR, JUNGYUN 'CHRISTINE' (2016), Assistant Professor of Recreation, Parks and Tourism Administration, RPTA,B.A., Sookmyung Women's University, Seoul, Korea; M.S., Griffith University, Australia; M.B.A., Le Cordon Bleu & Sookmyung Women's University, Seoul, Korea; Ph.D., Purdue University

HURTZ, GREGORY (2002), Professor of Psychology, PSYC,B.A., M.A., California State University, Sacramento; Ph.D., State University of New York, Albany

HUSSEY, WESLEY A. (2008), Associate Professor of Political Science, POLS,B.A., University of California, Irvine; M.A., Ph.D., University of California, Los Angeles

HYSON, DIANNE (2002), Professor of Family and Consumer Sciences; Dean, College of Social Sciences and Interdisciplinary Studies, FACS,B.S., Acadia University, Nova Scotia, Canada; M.S., University of Alberta, Canada; Ph.D., University of California, Davis

I

IDA, AYA KIMURA (2008), Assistant Professor of Sociology, SOC,B.A., Mount Union College; M.A., Ph.D., University of Akron, Ohio

IKROMOV, NURIDDIN (2008), Associate Professor Real Estate and Land Use Affairs, BUS,B.S., Ph.D., The Pennsylvania State University

IMAMURA, RODNEY T. (2002), Associate Professor of Kinesiology, KINS,B.A., M.A., California State University, Fresno; Ph.D., Georgia State University

IRWIN, JACQUELINE 'Jaccie' (2006), Professor of Communication Studies, COMS,B.F.A., M.A., Ph.D., University of Kansas

ISHIKAWA, CATHERINE 'CATHY' (2010), Lecturer of Environmental Studies, ENVS,B.A, Depauw University, M.S. UC Davis, Ph.D UC Davis

IVES, SARAH (2014), Associate Professor of Education, Teaching Credentials, TC,B.A., College of Wooster; M.A., University of North Carolina at Wilmington; Ph.D., North Carolina State University

J

JAMIESON, KATHERINE M. (2016), Professor of Health Science, KINS,B.S., M.S., California State University, Fullerton; Ph.D., Michigan State University

JANOS, DAN (2015), Assistant Professor of Communication Studies, COMS,B.F.A., College of Creative Arts; M.F.A., San Francisco Art Institute

JAOUDI, MARIA (1998), Professor of Humanities and Religious Studies, HRS,B.A., Bloomfield College; M.A., Seton Hall University; Ph.D., Fordham University

JENSEN, MIKKEL (2015), Assistant Professor of Physics and Astronomy, PHYS,B.S., University of Southern Denmark; M.A., Ph.D., Boston University

JENSEN, DONNA (2014), Assistant Professor of Gerontology, GERO,PhD, Fielding Graduate University; MSW, California State University, Sacramento; MA, Fielding Graduate University; BSW California State University, Chico

JEZ, SU JIN (2009), Associate Professor of Public Policy and Administration, PPA,B.A., University of California, Berkeley; M.A., Ph.D., Stanford University

JIN, YING (2004), Professor of Computer Science, CSC,B.E., Tianjin University, Tianjin, China; M.E., Northeastern University, Shenyang, China; Ph.D., Arizona State University, Tempe

JOHNSTON, JANIS (2014), Assistant Professor of Theatre and Dance, THEA,B.A Humboldt State University, Arcata CA; MFA University of Washington, Seattle, WA

JOHNSTON, JOHN (1997), Professor of Civil Engineering, CE,B.S., M.S., Stanford University; Ph.D., University of California, Davis; California Registered Civil Engineer

JONES, MARLYN (2001), Professor of Criminal Justice, CRJ,B.A., M.A., and Ph.D., Simon Fraser University, Burnaby, British Columbia

JONES, CARA (2017), Assistant Professor of Women's Studies, WOMS,B.S., Rochester Institute of Technology, B.A., Mansfield University of Pennsylvania, M.A., Louisiana State University, Ph.D., Louisiana State University

JOO, HyunGyung (2017), Assistant Professor of Education, Graduate and Professional Studies in Education; Program Co-Coordinator, School Counseling, GPSE,B.E., M.Ed., Seoul National University of Education; Ph.D., The Pennsylvania State University

JORGENSEN-EASTERLA, LISA J. (2007), Professor of Recreation, Parks and Tourism Administration, RPTA,B.S., M.A., California State University, Chico; Ph.D., University of Utah

JOSEPHSON, TRISTAN (2014), Assistant Professor of Women's Studies, WOMS,B.A. University of Puget Sound; M.A. San Francisco State University; Ph.D. University of California, Davis.

K

KANG, MINJEONG (2009), Associate Professor of Family and Consumer Sciences, FACS,B.A., Ewha Women's University, Seoul, Korea; M.S., Ph.D., University of Minnesota, St. Paul

KAPLAN, JONATHAN (2003), Professor of Economics; Graduate Program Coordinator, ECON,B.A., Humboldt State University; M.S., University of Maine; Ph.D., University of California, Davis

KARAS, STEPHANIE (2017), Assistant Professor of Criminal Justice, CRJ,B.A. California State University, Chico; M.A. Boise State University; ABD (Ph.D. expected 2017) Sam Houston State University

KASIC, KATHY (2018), Assistant Professor of Communication Studies, COMS,B.S., The University of Texas; M.A., The University of Texas; M.F.A., Montana State University

KASIMATIS, ELAINE A. (1995), Professor of Mathematics, MATH,B.S., M.A., Ph.D., University of California, Davis

KAUTZMAN, AMY (2015), Librarian; Dean, University Library, SP,B.A., University of Minnesota; M.S.LS., Simmons College; M.A., Northeastern University

KAZEMIFAR, FARZAN (2014), Assistant Professor of Mechanical Engineering, ME,B.S., Sharif University of Technology, Tehran, Iran; M.S., Ph.D. University of Illinois at Urbana-Champaign

KEEGAN, RICHARD (2013), Assistant Professor of Nursing, NURS,B.S.N., University of Portland; M.Ed., National University; M.S.N., California State University, Sacramento; D.N.P., University of San Francisco

KELLEN-YUEN, CYNTHIA (2001), Professor of Chemistry, CHEM,B.A., Gustavus Adolphus College; Ph.D., Stanford University

KELLY, KATHERINE (2005), Associate Professor of Nursing, NURS,B.S.N., California State University, Los Angeles; M.S.N., F.N.P., University of Reno and Orvis School of Nursing Graduate School; DNP, University of Colorado

KENNEDY, ROBIN (1999), Professor of Social Work, SWRK,B.A., Stephen F. Austin State University; M.S., University of North Texas; M.S.S.W., University of Texas-Austin; Ph.D., University of Texas-Austin

KHAN, GHAZAN (2013), Assistant Professor of Civil Engineering, CE,B.S. N.W.F.P., University of Engineering and Technology Peshawar; M.S., Ph.D., University of Wisconsin, Madison

KIM, EUISUK (2014), Professor of Spanish, WLL,B.A., Korea University; M.A., Pontificia Universidad Javeriana; Ph.D., University of Minnesota

KIM-JU, GREGORY (2003), Professor of Psychology, PSYC,B.A., St. John's University; M.A., Ph.D., Boston College

KIRVAN, CHRISTINE A. (2003), Professor of Biological Sciences, BIO,B.S., California State University, Fresno; M.S., Ph.D., University of California, Davis

KITKA, CLAUDIA (1974), Professor of Music, MUSC,B.A., Duke University; M.M., Eastman School of Music, University of Rochester, New York

KIVEL, B. DANA (2003), Professor of Recreation, Parks and Tourism Administration; Director, Community Engagement Center, RPTA,B.A., University of Wisconsin; M.S., San Francisco State University; Ed.D., University of Georgia

KLUCHIN, REBECCA (2005), Professor of History; Director, Graduate Studies, HIST,B.A., Washington University; M.A., Ph.D., Carnegie Mellon University

KNEITEL, JAMIE M. (2004), Professor of Biological Sciences, BIO,B.A., University of California, Santa Cruz; M.S., California State University, Northridge; Ph.D., Florida State University

KNIFSEND, CASEY (2014), Assistant Professor of Psychology, PSYC,B.S., University of California, Davis; M.A., Ph.D., University of California Los Angeles

KOCH, TODD (2004), Lecturer of Education, Graduate and Professional Studies in Education, GPSE,B.A., M.S., California State University, Sacramento; Ph.D., University of Arizona

KOCHIS, MARIA (1999), Librarian, Reference, SP,B.A., St. Mary's College; M.L.S., University of Pittsburg

KOMIYAMA, REIKO (2009), Associate Professor of English, ENGL,B.A., Rikkyo (St. Paul's) University, Tokyo, Japan; M.A., Ohio University; Ph.D., Northern Arizona University

KOSS, CATHERYN (2017), Assistant Professor of Gerontology, GERO,PhD, University of Kansas, Lawrence, KS; JD, Oklahoma City University School of Law, Okahoma City, OK; MA, University of Central Oklahoma, Edmond, OK; BA Smith College

KRABACHER, THOMAS S. (1988), Professor of Geography; Chair, Department of Geography, GEOG,B.S., M.A., Michigan State University, East Lansing; Ph.D., University of California, Davis

KRAUEL, MATTHEW (2016), Assistant Professor of Mathematics and Statistics, MATH,B.S., University of California, Los Angeles; M.A., Ph.D. University of California, Santa Cruz

KRECKMAN, ANDREW (2018), Assistant Professor of Music, MUSC,BME, University of Delaware; MM Michigan State University; DMA Texas Tech University

KRISTIE, WILLIAM J. (1982), Librarian, Reference, SP,B.A., Knox College, Illinois; M.A., M.L.S., University of Illinois, Urbana

KROVETZ, TED D. (2002), Professor of Computer Science, CSC,B.S., Stanford University, Palo Alto, California; M.S., Oxford University, Oxford, England; Ph.D., University of California, Davis

KUBICEK, LAURIE (2002), Professor of Criminal Justice, CRJ,B.A., California State University, Stanislaus; J.D., University of the Pacific McGeorge School of Law

KUEHL-KITCHEN, JULIE M. (2000), Professor of Kinesiology, KINS,B.A., M.A., California State University, Chico; Ph.D., Florida State University, Tallahassee

KUMAGAI, AKIHIKO (2000), Professor of Mechanical Engineering; Chair, Department of Mechanical Engineering, ME,B.S., M.S., University of Florida, Gainesville, Ph.D., University of Wisconsin, Milwaukee

KUMAR, PREETHAM (1999), Professor of Electrical and Electronic Engineering, EEE,B.S., M.S., University of Madras, India; Ph.D., Indian Institute of Technology, Madras, India

L

LAFLEN, ANGELA (2018), Assistant Professor of English, ENGL,B.A., Northern Kentucky University; M.A., Ph.D., Purdue University

LAGOS, KATERINA (2003), Professor of History, HIST,B.A., University of Washington; M.A., New York University; D.Phil., St. Antony's College, University of Oxford

LAMBATING, JULITA G. (1997), Professor of Education, Undergraduate Studies in Education, UGSE,B.S., University of San Carlos; M.A., C.A.S., Cebu Normal University; M.S., Ph.D., State University of New York (now Albany State University)

LANDERHOLM, THOMAS E. (2002), Professor of Biological Sciences, BIO,B.S., Washington State University, Pullman; B.S., Western Washington University, Bellingham; M.S., University of California, Davis; Ph.D., Baylor College of Medicine, Houston

LANDERS, STEPHANIE (2018), Assistant Professor of Nursing, NURS,B.S.N., California State University, Sacramento; M.S.N., Benedictine University, IL

LANG, DAVID (2002), Professor of Economics; Chair, Department of Economics, ECON,B.A., Stanford University; M.A., Ph.D., Washington University

LAPORTE, CARRIE (2002), Lecturer of English, ENGL,B.A, Cal State Stanislaus; M.A., Bringham Young

LAPP, NANCY D. (1998), Professor of Political Science, POLS,B.A., California State University, Chico; M.A., Ph.D., University of California, Los Angeles

LARDY, CORINNE (2017), Assistant Professor of Education, Teaching Credentials, TC,B.A., Columbia University; M.A., San Jose State University; Ph.D., University of California, San Diego

LARSEN, LESLIE K. (2016), Assistant Professor of Kinesiology, KINS,B.A., B.S., Arkansas State University, Jonesboro; M.S., Georgia Southern University, Statesboro; Ph.D., University of Tennessee, Knoxville

LASCHER, JR., EDWARD L. (1996), Professor of Public Policy and Administration, PPA,B.A. Occidental College; M.A., Ph. D. University of California, Berkeley

LAWSON, NICOLE (2016), Librarian; Associate Dean for Academic Services, University Library, SP,B.A. University of Delaware; M.L.I.S., Drexel University

LAZARIDIS, NIKOLAOS (2009), Associate Professor of History, HIST,B.A., American University, Cairo; M.Phil., D.Phil., University of Oxford

LAZARO, ROLANDO (2017), Associate Professor of Physical Therapy, PT,B.S., University of the Philippines, Manila; M.S., University of the Pacific, Stockton, CA; D.P.T., Creighton University, Omaha, NE; Ph.D., Touro University International, Cypress, CA

LEE, HELLEN (2006), Professor of English, ENGL,B.A., University of California, Santa Cruz; B.A., University of California, Irvine; M.A., California State University, Dominguez Hills; Ph.D., University of California, San Diego

LEE, JAI JOON 'JAY' (2007), Professor of Strategic Management, BUS,B.S., Purdue University, M.B.A., University of Rochester; Ph.D. University of Pittsburg

LEE, LYNETTE (1990), Professor of Criminal Justice, CRJ,B.A., M.A., Ph.D., Washington State University

LEE, SERGE C. (2000), Professor of Social Work, SWRK,B.S., University of Utah, Salt Lake; M.S.W., California State University, Sacramento; Ph.D., University of Washington, Seattle

LEE, YOUNG-IM (2017), Assistant Professor of Political Science, POLS,B.A., Sogang University, Seoul, Korea; M.A., Ph.D., University of Missouri, St. Louis

LEITNER, RONA (1991), Lecturer of Education, Graduate and Professional Studies in Education, GPSE,B.S., M.Ed., University of Illinois; Ed.D., University of San Francisco

LESLIE, ANGELA (2016), Assistant Professor of Education, Undergraduate Studies in Education, UGSE,B.A., M.A., California State University, Sacramento; Ed.D., University of San Franscisco

LEWIS, MIMI (2005), Lecturer of Social Work, SWRK,B.A., University of California, Davis; M.S.W., Arizona State University

LI, MIN (2002), Associate Professor of Decision Sciences, BUS,B.A., Hanover College; Ph.D., University of Cincinnati

LI, YANG (2013), Assistant Professor of Operations Management, BUS,B.A., Beijing University of Technology; M.S., The Graduate School of Chinese Academy of Sciences; Ph.D., Duke University

LI, HERMAN (2017), Assistant Professor of Economics, ECON,B.A., University of Pennsylvania; Ph.D., The Pennsylvania State University

LILES-LOURICK, ELISABETH (2009), Associate Professor of Education, Graduate and Professional Studies in Education; Chair, Graduate and Professional Studies in Education, GPSE,B.A., M.A., Ph.D., University of Nevada, Reno

LILLY, FRANK (2003), Professor of Education, Graduate and Professional Studies in Education, GPSE,B.A., M.A., University of Central Oklahoma; Ph.D., McGill University, Montreal

LIM, BRIAN S. (1998), Professor of Education, Teaching Credentials, TC,B.A., Central Washington University, Ellensburg; M.Ed., Ph.D., University of Washington, Seattle

LIN, ERIC C. (2007), Professor of Finance, BUS,B.S., Xavier University; M.B.A., Kansas State University; Ph.D., University of North Texas

LIN, HAO (2006), Professor of Finance, BUS,B.B., Nanyang Technological University; M.S., Ph.D., University of Warwick, UK

LINDGREN, SUSANNE W. (1997), Professor of Biological Sciences, BIO,B.S., Muhlenberg College, Allentown, PA; Ph.D., Uniformed Services University of the Health Sciences, Bethesda, MD

LINDSAY, ANNE (2015), Assistant Professor of History; Director, Public History Program, HIST,B.A. Arizona State University; M.A., Ph.D., University of California, Riverside

LINDSAY, BRENDAN (2013), Assistant Professor of History, HIST,B.A. California State Polytechnic University, Pomona; M.A., Ph.D., University of California, Riverside

LINVILLE, CYNTHIA (2000), Lecturer of English, ENGL,B.A., M.A., California State University, Sacramento

LIU, HSIANG 'Sean' (2007), Lecturer of English, ENGL,M.A., California State University Sacramento; M.A., Fu-Jen Catholic University

LIU, CAIXING (2004), Professor of Accountancy, BUS,B.A., M.S., Peking University; Ph.D., University of Hawaii

LIU, FENG 'Oliver' (2010), Associate Professor of Marketing, BUS,B.A., Shanding University (China); M.A., University of Wisconsin-Milwaukee; Ph.D., University of Wisconsin-Milwaukee

LIU, LAN (2008), Associate Professor of Finance, BUS,B.Bus., Nanyang Technological University, Singapore; M.S., Ph.D., University of Warwick, UK; C.F.A.

LIU, QIAOMING AMY (1997), Professor of Sociology, SOC,B.A., Zhengzhou University, People's Republic of China; M.S., Portland State University, Oregon; Ph.D., Iowa State University, Ames

LOEZA, PORFIRIO (2001), Professor of Education, Teaching Credentials, TC,B.A., M.A., Ph.D., University of California, Berkeley

LOJO, MAUREEN (2000), Professor of Operations Management, BUS,B.A., University of California, Berkeley; M.S., Yale University; Ph.D., M.I.T.

LOVING, RUSSELL (2006), Assistant Professor of Criminal Justice, CRJ,B.A., California State University, San Jose; J.D., University of California, Davis

LOZANO, ALBERT S. (2003), Professor of Education, Graduate and Professional Studies in Education; Program Coordinaor, Multicultural Education, GPSE,B.A., University of California, Berkeley; M.A., California State University, San Bernardino; Ph.D., Stanford University

LU, MEILIU (1987), Professor of Computer Science, CSC,B.S., University of Nanjing, China; M.S., Ph.D., University of Illinois, Chicago

LU, BIN (2003), Professor of Mathematics and Statistics, MATH,B.S., Xi'an University of Technology; M.S., Tennessee Tech University; M.S., Ph.D., Louisiana State University

LUCERO, CLAUDIA (2008), Associate Professor of Chemistry, CHEM,B.S., University of California, Berkeley; Ph.D., University of California, Irvine

LUCHANSKY, ANDREW (1999), Professor of Music, MUSC,B.M., New England Conservatory, Boston, Massachusetts; M.M., State University of New York, Stony Brook

LUDWIG, MARK D. (2002), Professor of Communication Studies, COMS,B.S., University of Illinois at Urbana-Champaign; M.A.,

California State University, Fullerton, Ph.D. Claremont Graduate University

LUNA-GORDINIER, ANNE (2015), Assistant Professor of Sociology, SOC,B.A., University or California, Berkeley; J.D./M.A., University of Arizona; Ph.D., Howard University

LUNDMARK, JENNIFER ANN (1996), Professor of Biological Sciences, BIO,B.S., Ph.D., University of California, Davis

LUPO, M. SCOTT (2006), Full-time Temporary, HIST,B.A., University of Louisiana, Monroe; M.A., University of Texas, Tyler; M.A., Fuller Theological Seminary; Ph.D., University of Nevada, Reno

LUVAAS, ERIK (2018), Assistant Professor of Recreation, Parks and Tourism Administration, RPTA,B.S., University of Idaho; M.A., CSU, Chico; Ph.D., University of Idaho

M

MA, YINFA (2018), Professor of Chemistry; Associate Dean, College of Natural Sciences and Mathematics, CHEM,B.S., Zhengzhou University; Ph.D., Iowa State University

MACK, JEFF (2005), Lecturer of Chemistry, CHEM,B.S., California Polytechnic State University, San Luis Obispo; Ph.D., University of California, Santa Barbara

MacLEOD, TORAN (2014), Assistant Professor of Physical Therapy, PT,B.S., California State University, San Jose; M.S., M.P.T., California State University, Sacramento; Ph.D., University of Delaware, Newark

MAHMOOD, RAMZI J. (2006), Professor of Civil Engineering; Director, Office of Water Programs, CE,B.S., University of Baghdad; M.S. (Environmental Engineering), M.S. (Mathematics), Ph.D., Utah State University; California Registered Civil Engineer; EMP, Stanford University

MAHR, MICHELE (2017), Assistant Professor of Education, Graduate and Professional Studies in Education; Program Coordinator, Rehabilitation Counseling, GPSE,B.A., Hunter College; M.S UNC-Chapel Hill; Ph.D. University of Wisconsin, Madison

MALROUTU, YAMINI LAKSHMI (2001), Professor of Family and Consumer Sciences, FACS,B.Ed., Jadavpur University, Calcutta, India; M.S., Ph.D., Oregon State University

MALVINI REDDEN, SHAWNA (2016), Assistant Professor of Communication Studies, COMS,B.A,. Walla Walla University; M.A. California State University, Sacramento; Ph.D., Arizona State Universityÿÿ

MANSYUR, CAROL L. (2017), Assistant Professor of Health Science, HLSC,B.S., M.A., University of Houston; Ph.D., University of Texas

MARBACH, TIMOTHY L. (2005), Associate Professor of Mechanical Engineering, ME,B.S., St. Mary's University, San Antonio, Texas; M.S., Ph.D., University of Oklahoma, Norman

MARGONINER, VERA (2007), Associate Professor of Physics and Astronomy, PHYS,B.S., Universidade de Sao Paulo, Brazil; Ph.D., Observatorio Nacional, Brazil

MARK, GREGORY (2001), Professor of Ethnic Studies, ETHN,B.A., M.A., D.Crim., University of California, Berkeley

MARKOVIC, MILICA (2003), Professor of Electrical and Electronic Engineering, EEE,B.S., Belgrade University, Yugoslavia; M.S., Ph.D., University of Colorado, Boulder

MARSHALL, RACHAEL (2018), Assistant Professor of Education, Graduate and Professional Studies in Education, GPSE,B.A., University of Tennessee, Knoxville; M.S., Lipscomb University; Ph.D., University of Tennessee, Knoxville

MARTIN, DANIELLE J. (2014), Assistant Professor of Political Science, POLS,B.A., Gonzaga University; M.A., Ph.D., University of California, Davis

MARTINEZ, ROSA (2016), Assistant Professor of English, ENGL,B.A., M.A., California State University, Chico; Ph.D., University of California, Berkeley

MARTINEZ, KATHERINE R. (1993), Lecturer of Recreation, Parks and Tourism Administration, RPTA,B.S., University of Maryland, England; M.S., California State University, Sacramento

MASUYAMA, KAZUE (2003), Professor of Japanese, WLL,B.A., M.A., University of Oregon; Ph.D., State University of New York

MATSUMOTO, ERIC E. (1994), Professor of Civil Engineering, CE,B.S., M.Eng., Cornell University, Ph.D., University of Texas at Austin

MATTERN-BAXTER, KATRIN (2012), Associate Professor of Physical Therapy, PT,International Baccalaureate, M"rike Gymnasium, G"ppingen, Germany; Licensed P.T., Albert-Ludwig University, Freiburg, Germany; D.P.T., A.T. Still University, Arizona

MATTHEUS, CHARL (2017), Assistant Professor of Health Science, HLSC,B.S., M.B.A., Indiana Wesleyan University; D.B.A., Walden University

MATTHEWS, THOMAS W. (1999), Professor of Electrical and Electronic Engineering, Chair, Department of Electrical and Electronic Engineering, EEE,B.S., M.S., California State University, Sacramento; Ph.D., University of California, Davis

MAYBERRY, MARIA (2006), Professor of Spanish, WLL,B.A., Itesm, Mexico; B.A., M.A., Ph.D., University of Texas at Austin

MAYES, G. RANDOLPH (2001), Professor of Philosophy, PHIL,B.A., University of California at Santa Cruz; Ph.D., University of Texas at Austin

McCARTHY HINTZ, MARY (1998), Professor of Chemistry, CHEM,B.A., California State University, Fullerton; B.S., M.S., University of West Florida; Ph.D., University of California, Davis

MCCLELLAN, SAMANTHA (2018), Senior Assistant Librarian, Instruction Coordinator, SP,B.A., University of North Carolina, Chapel Hill; M.L.S., Indiana University

MCCLELLAN, SARA E. (2018), Assistant Professor of Public Policy and Administration, PPA,B.A., California State University, Monterey Bay; M.P.A., University of Southern California; Ph.D., University of Colorado at Boulder

MCCORMICK, MATTHEW S. (2003), Professor of Philosophy, PHIL,B.A., Missouri Southern State College; M.A., Ph.D., University of Rochester

MCDONALD, KELLY (2009), Associate Professor of Biological Sciences, BIO,B.S., Ph.D., University of Florida

McKEOUGH, D. MICHAEL (2006), Professor of Physical Therapy; Chair, Department of Physical Therapy, PT,B.S., M.S., University of New Mexico; B.S., Medical College Georgia; ME.d., Ed.D., Columbia University

McKINNEY, JOSHUA B. (1999), Professor of English; Creative Writing Coordinator, ENGL,B.A., M.A., Humboldt State University; Ph.D., University of Denver

McREYNOLDS, KATHERINE (2001), Professor of Chemistry, CHEM,B.S., California Polytechnic State University, San Luis Obispo; M.A., Ph.D., University of Arizona

McTERNAN, MELISSA (2017), Assistant Professor of Psychology, PSYC,B.S., University of Mary Washington; Ph.D., University of California, Davis

MEDURI, PRAVEEN (2017), Assistant Professor of Electrical and Electronic Engineering, EEE,B.Tech., Jawaharlal Nehru Technological University; M.S., Southern Illinois University, Carbondale; Ph.D., Old Dominion University, Norfolk

MERAYYAN, SAAD (2000), Professor of Civil Engineering, CE,B.S.C.E., Jordan University of Science and Technology, Irib, Jordan; M.S.C.E., University of Missouri-Columbia; Ph.D., Wayne State University, Detroit, Michigan

MERLINO, SCOTT A. (2001), Lecturer of Philosophy, PHIL,B.A.S., M.A., Ph.D., University of California, Davis

MERRIAM, GARRET (2017), Assistant Professor of Philosophy, PHIL,B.A., University of California, Davis; M.A., Ph.D., Rice Universtity

MERRIFIELD, EMILY (2016), Senior Assistant Librarian, Reference, SP,B.A., California State University, Long Beach; M.L.I.S., San Jose State University

MERRILL, MARCY (2002), Professor of Education, Teaching Credentials, TC,B.A., University of Wisconsin, Madison; M.A., Ph.D., University of Virginia, Charlottesville

METZ, SUSAN (2008), Associate Professor of Music, MUSC,B.M.E., Capital University, Ohio; M.M., University of San Francisco

METZGER, DEBORAH A. (1988), Librarian, Reference, SP,B.S., A.M.L.S., University of Michigan, Ann Arbor

MEYERS, LAWRENCE S. (1970), Professor of Psychology, PSYC,B.S., Brooklyn College; Ph.D., Adelphi University; N.S.F. Postdoctoral Fellow

MICHAEL, BONIFACE (2008), Associate Professor of Human Resources Management, BUS,B.A., Delhi University, India; M.B.A., Foundation of Organizational Research and Education, India; Ph.D., Rutgers, The State University of New Jersey

MICHAELS, ANN (2007), Lecturer of English, ENGL,B.A., M.A., California State University, Sacramento

MICHALS, ELISA (2002), Professor of Education, Teaching Credentials, TC,B.A., M.Ed., Ph.D., University of British Columbia, Vancouver

MICKEL, AMY E. (2000), Professor of Human Resources Management, BUS,B.A., University of California, Los Angeles; Ph.D., University of Washington

MIGLIACCIO, TODD (2002), Professor of Sociology, SOC,B.A., University of California, San Diego; M.A., Ph.D., University of California, Riverside

MIGUEL, CAIO F. (2006), Professor of Psychology, PSYC,B.A., Pontificia Universidade Catolica de Sao Paulo, SP, Brazil; M.A., Ph.D., Western Michigan University, Kalamazoo

MIKAL-FLYNN, JOYCE (2005), Professor of Nursing, NURS,B.S.N., University of San Francisco; M.S.N., California State University, Sacramento; Ed.D., St. Mary's College, California

MIKHAILITCHENKO, ANDREY (2009), Associate Professor of Marketing, BUS,BA, Moscow State University Institute of Afro-Asian Studies; M.B.A, Syracuse University, New York; D.B.A., Cleveland State University

MILLER, RACHEL (2016), Assistant Professor of Art, ART,B.A., Kenyon College, Gambier, OHM.A., University of Pittsburgh, Pittsburgh, PAPh.D., University of Pittsburgh, Pittsburgh, PA

MILLER, CHRISTINE (1987), Professor of Communication Studies; Interim Vice Provost (Strategic Services), COMS,B.A., University of Oregon; M.S., Southern Illinois University, Carbondale; Ph.D., Pennsylvania State University

MILLER-SCHULZE, JUSTIN (2014), Assistant Professor of Chemistry, CHEM,B.S., University of California, San Diego; Ph.D., University of Washington

MINK, MICAHEL D. (2018), Assistant Professor of Health Science; Chair, Department of Health Science, HLSC,B.A. College of William and Mary; M.P.A. University North Carolina; Ph.D. University of South Carolina

MIRANDA, JAMES (2006), Professor of Chemistry, CHEM,B.S., California Polytechnic State University, San Luis Obispo; Ph.D., University of California, Santa Barbara

MITCHELL, REBECCA (1995), Lecturer of English, ENGL,B.A., M.A., California State University, Sacramento

MIZRAHI, STEPHANIE (2009), Associate Professor of Criminal Justice, CRJ,B.S. University of the Pacific; J.D., McGeorge School of Law; M.A., Washington State University

MOHAPATRA, PARTHA (2017), Assistant Professor of Accountancy, BUS,B.S., National Institute of Technology; MBA, Xavier University; Ph.D., University of Kentucky

MONI, SUJATHA (2009), Associate Professor of Women's Studies; Chair, Department of Women's Studies, WOMS,B.A., M.A., M.Phil., University of Madras, Chennai, India; Ph.D. Rutgers University, New Jersey.

MONICAL, SALLY K. (2007), Lecturer of Kinesiology, KINS,B.S,. M.S., California State University, Sacramento

MONTEITH, TOM (2002), Professor of Art, ART,B.A., University of California, Berkeley; M.A., California State University, Sacramento; M.F.A., University of Illinois, Urbana-Champaign

MONTGOMERY, CHRISTINE LUPO (2017), Assistant Professor of English, ENGL,B.A., Santa Clara University; Ph.D., UC Santa Cruz

MOORE, DAVID (2011), Associate Professor of Finance, BUS,B.S., Purdue University; M.B.A., Arizona State University, Ph.D., University of Tennessee

MOORE, BRIAN (2015), Assistant Professor of Physical Therapy, PT,B.S., Allegheny College, Pennsylvania; D.P.T., Emory University, School of Medicine, Georgia

MOORE, ANDREA (2015), Assistant Professor of Ethnic Studies, ETHN,B.A., M.A., Ph.D., University of California, Davis

MORALES, SYLVIA (2006), Lecturer of English, ENGL,B.A., M.A., California State University, Sacramento

MORENO, JESSICA (2017), Assistant Professor of Education, Graduate and Professional Studies in Education, GPSE,B.A., M.S., California State University, Chico; DMFT, Loma Linda University

MORRIS, BARBARA (2003), Lecturer of Mathematics and Statistics, MATH,B.A., M.A., California State University, Sacramento

MORRIS, ELIZA (2018), Assistant Professor of Physics and Astronomy, PHYS,B.S., California State University, Sacramento; Ph.D. Harvard University

MORRIS, PATRICIA (2015), Assistant Professor of Sociology, SOC,B.A., Rhodes College; M.A., Ph.D., Northeastern University, Boston

MORRISON, ALEXANDRA (2017), Assistant Professor of Psychology, PSYC,B.A., Colby College; M.A., Ph.D., Temple University, Philadelphia

MORSE, MATTHEW (2017), Assistant Professor of Music, MUSC,B.A. Thomas Edison State University, New Jersey; M.A. Indiana University of Pennsylvania; D.M.A. University of North Texas

MOSS, JOSHUA (2014), Assistant Professor of Physics and Astronomy, PHYS,B.S., Hiram College; M.S., Ph.D., College of William and Mary

MOSUPYOE, BOATAMO (2003), Professor of Ethnic Studies; Director, Cooper-Woodson College Enhancement Program; Chair, Department of Ethnic Studies, ETHN,B.A., University of the North, South Africa; M.A., Ph.D., University of California, Berkeley

MOTLAGH, AMIR (2017), Assistant Professor of Civil Engineering, CE,B.S. Shiraz University, M.S. University of Toledo, Ph.D. University of Utah

MOTT, JOANNA (2017), Professor of Biological Sciences; Dean, College of Natural Sciences and Mathematics, BIO,B.Sc. University of Aston; M.Sc. University of Waterloo; Ph.D. Texas A&M University

MOYLAN, J. ANN (1987), Professor of Family and Consumer Sciences, FACS,B.A., Wake Forest University, Winston-Salem, North Carolina; M.S., Purdue University; Ph.D., The University of Georgia

MUBAKO, GRACE (2018), Assistant Professor of Accountancy, BUS,B.A., ACCA (Glasgow), M.S., Ph.D. Southern Illinois University, Carbondale

MULASI, URVASHI (2016), Assistant Professor of Family and Consumer Sciences; Director, Didactic Program in Dietetics, FACS,B.A., M.S., Ph.D., University of Minnesota

MULLIGAN, KIMBERLY (2015), Assisant Professor of Biological Sciences, BIO,B.S., UC San Diego; Ph.D. Stanford Univeristy

MURPHY, LIAM (2002), Professor of Anthropology, ANTH,B.A., Saint Mary's University; M.A., The University of Calgary; Ph.D., Yale University

MUYAN-OZCELIK, PINAR (2014), Assistant Professor of Computer Science, CSC,B.S., Ege University, Izmir, Turkey; M.S., University of British Columbia, British Columbia; Ph.D., University of California, Davis

N

NAKAOKA, SUSAN (2018), Assistant Professor of Social Work, SWRK,B.A., Sociology & History, M.S.W., & Ph.D Urban Planning, University of California, Los Angeles

NALDER, KIMBERLY L. (2002), Professor of Political Science, POLS,B.A., Utah State University; M.A., Ph.D., University of California, Davis

NAM, KISUN (2008), Assistant Professor of Social Work, SWRK,B.A., M.A., Seoul National University, Republic of Korea; M.S.S.W., Ph.D., University of Wisconsin-Madison

NEUFFER, LORI (1998), Lecturer of English, ENGL,B.A., M.A., California State University, Sacramento

NEVAREZ, CARLOS (2001), Professor of Education, Graduate and Professional Studies in Education, GPSE,B.A., California State University, Fresno; M.A., Ph.D., Arizona State University

NEWSOME, CHEVELLE A. (1994), Professor of Communication Studies; Dean for Graduate Studies, COMS,B.A., M.A., California State University, Sacramento; Ph.D., University of Oklahoma

NGUYEN, HAO (2002), Professor of Biological Sciences, BIO,B.A., Rice University, Houston; M.S., Ph.D., University of Texas at Dallas

NIU, KUEI-HSIEN 'JEFF' (2008), Associate Professor of Strategic Management, BUS,B.A., National Taipei University; M.B.A., Pacific Lutheran University; Ph.D., University of North Texas

NOBLE, JENNIFER (2015), Assistant Professor of Criminal Justice, CRJ,B.A., California State University, Sacramento; J.D., University of the Pacific, McGeorge School of Law

NOEL, JANA (2000), Professor of Education, Undergraduate Studies in Education, UGSE,B.S., M.S., Drake University; Ph.D., University of California, Los Angeles

NORRIS, AAMINAH (2016), Assistant Professor of Education, Teaching Credentials, TC,B.A., Alabama State; M.A., Ph.D., University of California, Berkeley

NORRIS, ANN MICHELLE (2008), Associate Professor of Mathematics and Statistics, MATH,B.A., M.A., California State University, Sacramento; Ph.D., University of California, Davis.

NOUREDDINE, NASSRINE (2007), Assistant Professor of Nursing, NURS,B.S.N. American University Beirut, M.S.N. California State University, Sacramento

NOWELL, LINDA S. (1998), Lecturer of Education, Teaching Credentials, TC,B.S., M.S., Texas Wesleyan University, Fort Worth, Texas

NUMARK, MITCHELL (2008), Associate Professor of History, HIST,B.A., Pitzer College, California; M.A., Ph.D., University of California, Los Angeles

NYLUND, DAVID (2003), Associate Professor of Social Work, SWRK,B.A., Michigan State University; M.S.W., California State University, Sacramento; M.A., Ph.D., University of California, Davis

O

O'BRIEN, ELAINE (1998), Professor of Art, ART,B.A., M.A., San Diego State University; Ph.D., The Graduate School of the City University of New York

O'HARA, KAREN (2000), Professor of Education, Undergraduate Studies in Education; Associate Dean, College of Education, UGSE,B.A., Ph.D., University of California, Davis

O'KEEFE, MAURA (2005), Professor of Social Work, SWRK,B.A., Queens College, City of New York; M.S.W., Columbia University, New York; Ph.D., University of Texas at Austin

O'KEEFE, SUZANNE (2001), Professor of Economics, ECON,B.A., B.S., University of California, Davis; Ph.D., University of California, Berkeley

O'MALLEY, MEAGAN (2016), Assistant Professor of Education, Graduate and Professional Studies in Education, GPSE,B.A. Psychology, M.A. Sacramento State University, Ph.D University of California State Barbara

OCEGUEDA, MARK (2017), Assistant Professor of History, HIST,B.A., California State University, San Bernardino; M.A., Ph.D., University of California, Irvine

OCHOA, RUTH (2005), Lecturer of English, ENGL,B.A., M.A., California State University, Sacramento

ODEN, ROBERT STANLEY (2001), Professor of Political Science, POLS,B.A., University of California, Davis; M.A., United States International University; M.A., Ph.D., University of California, Santa Cruz

OGILBY, SUZANNE M. (1990), Professor of Accountancy, BUS,B.S., M.S., Southern Illinois University; M.B.A., Ph.D., University of Wisconsin; C.P.A.; C.G.F.M.

OKADA, DANIEL (2002), Professor of Criminal Justice, CRJ,B.A., University of California, Berkeley; M.S., California State University, Long Beach; Ph.D., University of Maryland

OMORI, KIKUKO (2017), Assistant Professor of Communication Studies, COMS,B.A., Senshu University (Japan), Business Administration; M.A., University of Kansas, Communication Studies, Ph.D., University of Wisconsin-Milwaukee, Communication

ORTBAL, ROBERT (2005), Professor of Art, ART,B.A., San Francisco State University; M.F.A., University of California, Davis

ORTIZ, ARLENE (2016), Assistant Professor of Education, Graduate and Professional Studies in Education, GPSE,B.S. New York University, M.S. Ed. Fordham University Ph.D. The Pennsylvania State University

OSBORNE, JACK H. (1999), Lecturer of Physics and Astronomy, PHYS,B.S., California State University, Chico; M.S., Ph.D., University of California, Davis

OSBORNE, CHERYL (1984), Professor of Gerontology; Chair, Department of Gerontology, GERO,EdD, University of San Francisco; MSN, California State University, Chico; BSN, Holy Names College; RN, Samuel Merritt School of Nursing

OUYANG, JINGSONG (2002), Professor of Computer Science, CSC,B.S., M.S., University of Electronic Science & Technology of China; Ph.D., University of New South Wales, Sydney, Australia

OVERBY, BLAIR (2008), Lecturer of English, ENGL,B.A., San Diego State University; M.A., California State University, Sacramento

OWENS, WILLIAM THOMAS (1998), Professor of Education, Teaching Credentials, TC,B.A., M.A., Marshall University, Huntington, WV; Ed.D., Florida International University, Miami

OZCELIK, HAKAN (2004), Professor of Organizational Behavior, BUS,B.A., M.B.A., Bosphorus University; Ph.D., University of British Columbia (Canada)

P

PAGANELIS, GEORGE I. (2003), Librarian, Curator, Tsakopoulos Hellenic Collection, SP,B.A., University of California, Davis; M.A., University of Colorado at Boulder; M.S., University of Illinois at Urbana-Champaign

PAGE, MONICA C. (2002), Lecturer of English, ENGL,B.A., University of California, Santa Cruz; M.A., California State University, Sacramento

PALERMO, JOSEPH A. (2002), Professor of History, HIST,B.A., University of California, Santa Cruz; M.A., San Jose State University; Ph.D., Cornell University

PAN, RAVIN (2009), Associate Professor of Education, Teaching Credentials, TC,B.S., University of Illinois at Champaign/Urbana; M.A., Ph.D., University of Michigan, Ann Arbor

PANG, JING (2003), Professor of Electrical and Electronic Engineering, EEE,B.S., M.S., Xi'an Jiaotong University, Shannxi, P.R. China; Ph.D., Ohio University, Athens

PANGGABEAN, TOTA (2015), Assistant Professor of Accountancy, BUS,B.S., Sekolah Tinggi Akuntansi Negara, Jakarta; M.S. University of Illinois, Urbana-Champaign; Ph.D., Simon Fraser University, Burnaby

PAPOUCHIS, CHRISTOPHER (2011), Lecturer of Environmental Studies, ENVS,B.A, Cornelll University; M.S., Antioch University of New England

PARADIS, JEFFREY (2002), Professor of Chemistry, CHEM,B.S., Holycross College; M.S., University of North Carolina, Chapel Hill; Ph.D., North Carolina State University

PARADY, SCOTT (2003), Professor of Art, ART,B.F.A., Kansas City Art Institute; M.F.A., Pennsylvania State University

PARK, MYUNG (2002), Professor, Department of Design, Graphic Design Program, DOD,B.F.A., Ewha Woman's University, Seoul, Korea; M.A., M.F.A., Iowa State University

PARK, SANGMIN (2017), Assistant Professor of Education, Graduate and Professional Studies in Education; Program Coordinator, Career Counseling, GPSE,B.A., M.A., Seoul National University; Ph.D., University of Iowa

PARK, JENNIFER K. (2012), Lecturer of Kinesiology, KINS,B.S., M.S., M.P.T., California State University, Sacramento

PARKER, DARYL L. (1999), Professor of Kinesiology, KINS,B.S., M.S., California State University, Sacramento; Ph.D., University of New Mexico

PARSH, BRIDGET (2004), Professor of Nursing; Director, First Year Experience, NURS,B.S.N., University of San Francisco; M.S.N., California State University, Sacramento; Ed.D., University of Sanfrancisco

PATTERSON, AISHAH (2017), Assistant Professor of Communication Sciences and Disorders, CSAD,B.A., Indiana University; M.A., University of Illinois at Urbana-Champaign; Ph.D., University of Illinois at Urbana-Champaign

PATTERSON, ANNA (2016), Assistant Professor of Geography, GEOG,B.A. San Diego State; M.A.G. New Mexico State University; Ph. D. University of Nevada Reno

PEAVY, THOMAS R. (2004), Professor of Biological Sciences, BIO,B.S., M.A., Ph.D., University of California, Riverside

PEIGAHI, ?NTONIA (2003), Librarian, Reference; Chair, Faculty Senate, SP,B.A., Portland State University; M.L.S., Emporia State University

PELLA, SHANNON (2016), Assistant Professor of Education, Teaching Credentials, TC,B.A., University of Rhode Island; M.A., Humboldt State University; Ph.D., University of California, Davis

PENROD, BECKY (2006), Professor of Psychology, PSYC,B.S., University of Florida, Gainesville; M.A., Ph.D., University of Nevada, Reno

PEREZ, SUSAN L. (2014), Assistant Professor of Health Science, HLSC,B.A., B.S., University of California, Davis; M.P.H., Benedictine University; Ph.D., University of California, Davis

PEREZ, STEPHEN (2001), Professor of Economics; Interim Provost and Vice President of Academic Affairs, ECON,B.A., University of California, San Diego; M.A., Ph.D., University of California, Davis

PERKINS, SCOTT (2017), Assistant Professor of Music, MUSC,B.M. Boston University; M.A., Ph.D. Eastman School of Music, University of Rochester, New York

PETERS, LORNA (1998), Professor of Music, MUSC,B.M., Lawrence University; M.M., D.M.A., State University of New York, Stony Brook

PFORSICH, HUGH (2004), Associate Professor of Accountancy, BUS,B.A., M.B.A., California State University, Sacramento; Ph.D., Washington State University

PIENG, PATRICK (2015), Assistant Professor of Education, Undergraduate Studies in Education, UGSE,B.A., University of California, Los Angeles; M.A., Ph.D., University of California, Santa Barbara

PIERCE, NATALIE (1994), Lecturer of Education, Undergraduate Studies in Education, UGSE,B.A., M.S., California State University, Sacramento

PIERETTI, ROBERT (2009), Professor of Communication Sciences and Disorders, CSAD,B. A., University of California, Davis.; B.S., M.S., California State University Sacramento;Ph.D., University of California, Davis.;

PIGNO, VINCENT (2014), Assistant Professor of Mathematics and Statistics, MATH,B.S., University of Kansas; M.S., Ph.D., Kansas State University

PITRE, TERENCE (2016), Associate of Accountancy, BUS,B.A., University of Lousiana-LaFayette, M.B.A., Tulane University, PhD., Michigan State University

PITZER, JR., JIMMY (2014), Assistant Professor of Biological Sciences, BIO,B.S., M.S., New Mexico University; Ph.D. University of Florida

POINDEXTER, CRISTINA (2016), Assistant Professor of Civil Engineering, CE,B.S. Stanford University, M.S. and PhD University of California, Berkeley, CA Registered Civil Engineer

POMO, ROBERTO DARIO (1999), Professor of Theatre and Dance, THEA,B.A., Brigham Young University; M.A., University of California, Davis; Ph.D., University of Utah

POOR, NIGEL (2003), Professor, Department of Design, Photography Program, DOD,B.A., Bennington College, Vermont; M.F.A., Massachusetts College of Art

POPEJOY, GREGORY (2007), Lecturer of Environmental Studies, ENVS,B.A., M.A., California State University, Sacramento

PORTER, JENNA (2014), Associate Professor of Education, Teaching Credentials, TC,B.A., California State University Chico; M.A., California State University, Sacramento; Ph.D., University of California, Davis

PRAJS, JANUSZ (2003), Professor of Mathematics and Statistics, MATH,M.S., Technical University of Wroclaw; Ph.D., University of Wroclaw, Poland

PRATT, RICHARD (2002), Professor, Department of Design; Graphic Design Program Coordinator, DOD,B.F.A., Ohio State University; M.F.A., Rhode Island School of Design

PRESLER, ANNA (2014), Assistant Professor of Music, MUSC,B.A., North Carolina School of the Arts; M.A., San Francisco Conservatory of Music and M.A. in History, Yale University

Q

QIN, JIANJIAN (2003), Professor of Psychology, PSYC,B.A., M.A., East China Normal University; Ph.D., University of California, Davis

QUINTANA, ROBERTO (1998), Professor of Kinesiology, KINS,B.A., M.A., Humboldt State University; Ph.D., University of New Mexico

R

RAE, JAMES DeSHAW (2006), Professor of Political Science, POLS,B.A., University of Iowa; M.A., American University, Washington, D.C.; Ph.D., University of Hawaii at Manoa

RAMIREZ, ELVIA (2009), Associate Professor of Ethnic Studies, ETHN,B.A., M.A., Ph.D, University of California, Riverside

RASCHIG, MEGAN (2018), Assistant Professor of Anthropology, ANTH,B.A., University of British Columbia; M.A., Ph.D., University of Amsterdam

RAY, MICHAEL (2015), Assistant Professor of Physics and Astronomy, PHYS,B.S., Ohio State University, M.S., Ph.D., University of Massachusetts, Amherst

RAYMAN, JENNIFER (2006), Associate Professor of Education, Undergraduate Studies in Education, UGSE,B.A., M.A., University of Arizona, Tucson; Ph.D., University of California, San Diego

RAZAVI, SAHAR (2018), Assistant Professor of Political Science, POLS,B.A., California State University, San Marcos; MA., Ph.D., University of Northern Arizona

RECHS, ADAM J. (2003), Professor of Biological Sciences, BIO,B.S., Ph.D., University of California, Davis

REDFIELD, CLAYBORN (2015), Professor of Music, MUSC,B.A., California State University, Sacramento; M.A., American Band College of Southern Oregon University; D.M.A. University of Nevada, Las Vegas

REED, LORETTA (2005), Full-time Temporary, HIST,B.A., M.A., Ph.D., University of California, Davis

REED, ANNETTE (1998), Professor of Ethnic Studies, ETHN,B.A., University of California, Berkeley; M.A., University of California, Davis; Ph.D., University of California, Berkeley

REEDE, JAMES (2003), Lecturer of Environmental Studies, ENVS,B.S., Ed.D., University of San Francisco

REESE, PHILLIP (2017), Assistant Professor of Communication Studies, COMS,B.A., North Carolina State University; M.A., University of North Carolina at Greensboro

REISNER, RONALD (2007), Professor of Theatre and Dance, THEA,B.A., Chico State University; M.A., California State University, Sacramento; M.F.A. University of California, Davis

REN, XIN (1990), Professor of Criminal Justice, CRJ,B.A., People's University of China, Beijing; M.A., University of Ottawa; Ph.D., The Wharton School of the University of Pennsylvania

RICE, DOUGLAS F. (2000), Professor of English; Graduate Coordinator, ENGL,B.A., Slippery Rock State College; M.A., Duquesne University, Pittsburgh

RICHARDS, JOSEPH (2001), Professor of Marketing, BUS,B.Tech., M.B.A., Indian Institute of Technology, Kharagpur; Ph.D., Syracuse University

RIOLLI, LAURA (2000), Professor of Human Resources Management, BUS,B.S., University of Tirana, Albania; M.A., Ph.D., University of Nebraska-Lincoln

RITCHEY, JAMES M. (1977), Professor of Chemistry, CHEM,B.S., University of Redlands; M.S., Ph.D., Northwestern University; J.D., McGeorge School of Law

RIVAS, BITA (2018), Assistant Professor of Education, Graduate and Professional Studies in Education, GPSE,B.S., Metropolitan State University of Denver; M.A., Ed.D., Argosy University

ROACH, STEPHEN (2001), Associate Professor of Music, MUSC,B.M., Indiana University; M.M., Northern Illinois University; D.M.A., University of Northern Colorado

ROBERTS, ROSLYN (2017), Assistant Professor of Accountancy, BUS,B.F.A and M.A., University of New England NSW; Ph.D., University of Sydney

ROBERTS, LINDA M. (1995), Professor of Chemistry, CHEM,B.A., University of Vermont; Ph.D., Washington State University

ROBERTS, MILES (1990), Professor of Geography, GEOG,B.S., M.S., George Mason University; Ph.D., University of South Carolina

ROBERTS, LISA (1998), Associate Librarian, Bibliographic Control, SP,B.A., Loyola University, Chicago, Illinois; M.L.I.S., Rosary College Graduate School of Library and Information Science, River Forest, Illinois

ROBERTS, KIM A. (1997), Lecturer of Psychology, PSYC,B.A., University of San Diego; M.S., Ph.D., Washington State University

RODRIGUES, JOSEPH (2007), Lecturer of Gerontology, GERO,M. Divinity., St. Patrick's Seminary, BA St. Patrick's Seminary

RODRIGUEZ, JUDY (1996), Lecturer of Spanish, WLL,B.A., M.A., California State University, Sacramento

ROLLOFF, DAVID (2002), Professor of Recreation, Parks and Tourism Administration, RPTA,B.A., St. Olaf College; M.S., Western Illinois University; Ph.D., Oregon State University

ROMANI, MARCUS (2009), Lecturer of Mechanical Engineering, ME,B.S., M.S., California State University, Sacramento

ROMERO, LISA (2012), Associate Professor of Education, Educational Leadership, GPSE,B.S., Indiana University; M.A., University of Houston; Ph.D., University of California, Riverside

ROSEBERRY-MCKIBBIN, CELESTE (1999), Professor of Communication Sciences and Disorders, CSAD,B. A., California Ste University, Fresno; M. A., California Ste University, Fresno; Ph.D., Northwester University

RUSSEL, BEATRICE (2004), Associate Professor of French, WLL,B.A., University of Bujumbura, Burundi; M.A., University of Arkansas, Fayetteville; Ph.D., University of California, Davis

RUSSEL, DALE A. (2001), Associate Professor of Social Work; Chair, Division of Social Work, SWRK,B.A., University of Wisconsin-Eau Claire; M.S.W., California State University, Sacramento; Ph.D., University of San Francisco

S

SALAMA, TAREK (2018), Assistant Professor of Construction Management, CM,B.S., M.S., University of Alexandria, Egypt; M.S., Ph.D., Concordia University, Montreal, Canada

SALEM, AHMED M. (2002), Professor of Computer Science, CSC,B.S., University of Dayton, Ohio; M.S., California State University, Chico; Ph.D.,Florida Institute of Technology, Melbourne

SAMPANIS, MARIA (1997), Lecturer of Political Science; Coordinator of Internships & Sacramento Semester Program, POLS,B.A.,M.A., California State University, Sacramento; M.A., Ph.D., University of California, Los Angeles

SAMPSON, JAN (2004), Associate Professor of Nursing, NURS,B.S.N., Humboldt State University, California; M.S.N., University of San Francisco

SARABIA, HEIDY (2016), Assistant Professor of Sociology, SOC,B.A., University of California, Los Angeles; M.A., Ph.D., University of California, Berkeley

SARDINA, ALEXA (2017), Assistant Professor of Criminal Justice, CRJ,B.A.: SUNY Buffalo; M.A.: Boston University; Ph.D.: Indiana University

SAVAGE, TOM (2004), Associate Professor of Chemistry, CHEM,B.A., Willamette University; M.S., Oregon State University; M.S., Ph.D., Washington State University

SAVINO, RICHARD (1985), Professor of Music, MUSC,M.M., D.M.A., State University of New York, Stony Brook

SAX, TODD (2018), Lecturer of Environmental Studies, ENVS,B.A., Claremont McKenna College; M.S., D.Env., University of California, Los Angeles

SCARRY, CLARA (2018), Assistant Professor of Anthropology, ANTH,B.A., Arizona State University; M.A., Ph.D., Stony Brook University

SCARTON, CARLY (2016), Assistant Professor of Education, Graduate and Professional Studies in Education; Program Co-Coordinator, School Counseling, GPSE,B.S. Sociology and Criminal Justice, M.Ed. The Pennsylvania State University

SCHARF, ANITA V. (1998), Lecturer of English, ENGL,B.A., California State Polytechnic University, Pomona; M.A., California State University, Sacramento

SCHIER-ANZELMO, NANCY (2002), Lecturer of Gerontology, GERO,MSG, San Diego State University; BS Appalachian State University

SCHMANDT, MICHAEL J. (2006), Professor of Geography, GEOG,B.A., California State University, Fresno; Ph.D., Arizona State University

SCHMIDTLEIN, MATHEW C. (2008), Associate Professor of Geography, GEOG,B.S. Brigham Young University, M.S., Ph.D., University of South Carolina

SCHNEIDER, KHAL (2016), Assistant Professor of History, HIST,B.A., University of Minnesota, M.A., Ph.D., University of California, Berkeley

SCHNURBUSH, KIM (2014), Assistant Professor of Criminal Justice, CRJ,B.A., University of New Hampshire; M.S. Fitchburg State College; Ph.D. Sam Houston State University

SCHULTE, THOMAS R. (1986), Professor of Mathematics and Statistics, MATH,A.B., University of California, Berkeley; M.S., California State University, Hayward; Ph.D., University of California, Santa Barbara

SCOTT-HALLET, KIMBERLY (1984), Lecturer in Civil Engineering, CE,B.S. California State University, Sacramento, MS University ofWashington, CA Registered Civil Engineer, CA Registered StructuralEngineer

SEO, MI-SUK (2008), Associate Professor of English, ENGL,B.A., M.A., Seoul National University, Korea; Ph.D., University of Illinois

SERGAN, TATIANA (2008), Associate Professor of Physics and Astronomy, PHYS,B.S., M.S., Kiev State University, Ukraine; Ph.D., Institute of Physics, Ukrainian Academy of Sciences

SERGAN, VASSILI V. (2002), Professor of Physics and Astronomy, PHYS,B.S., M.S., Rovno State Pedagogic Institute; Ph.D., Institute of Physics, Ukrainian Academy of Sciences

SESSOMS, DEIDRE B. (1997), Professor of Education, Undergraduate Studies in Education, UGSE,B.S., Southeast Missouri State University; Ph.D., University of California, Davis

SHANBROM, COREY (2013), Associate Professor of Mathematics and Statistics, MATH,B.A., M.A., Ph.D., University of California, Santa Cruz

SHAO, PING 'TYRA' (2010), Associate Professor of Human Resources Management, BUS,B.A.,East China Normal University, Shanghai, University of Tirana, Albania; M.B.A., University of Sheffield (UK), Ph.D., Drexel University

SHARPP, TARA (2014), Assistant Professor of Nursing, NURS,B.S.N., University of Minnesota, Twin Cities; Ph.D. University of California, San Francisco

SHAW, GREG (2005), Professor of Recreation, Parks and Tourism Administration; Interim Associate Dean, College of Health and Human Services (through August 2019), RPTA,B.S., Georgia Institute of Technology, M.S., California State University, Sacramento; Ph.D., University of California, Davis

SHEN, DONG (2001), Professor of Family and Consumer Sciences, FACS,B.S., China Textile University, Shanghai, People's Republic of China; M.S., The People's University of China, Beijing, People's Republic of China; Ph.D., The Ohio State University

SHEPARD, NICHOLAS (2016), Assistant Professor, Department of Design; Photography Program, DOD,B.A., Carlton College, Northfield; M.F.A., School of Visual Arts

SHEPPARD, ANTHONY G. (1997), Professor of Recreation, Parks and Tourism Administration; Interim Chair, Department of Recreation, Parks and Tourism Administration (through August 2019), RPTA,B.Sc., University of Sheffield, England; M.Ed., Pennsylvania State University, University Park; Ph.D., Clemson University

SHIGIHARA, AMANDA (2018), Assistant Professor of Sociology, SOC,B.A., St. Mary's College of CA; M.A., San Jose State University; Ph.D., University of Colorado, Boulder

SHILTS, MICAL (2003), Professor of Family and Consumer Sciences, FACS,B.S., California State University, Sacramento; M.S., Ph.D., University of California, Davis

SHIMABUKURO, DAVID (2013), Assistant Professor of Geology, GEOL,A.B., University of California, Berkeley; Ph.D., University of California,Berkeley

SHINBROT, VICTORIA (2003), Professor of Humanities and Religious Studies; Graduate Coordinator, Department of Humanities and Religious Studies, HRS,B.A., University of California, Santa Barbara; M.A., California State University, San Francisco; Ph.D., University of California, Davis

SHINER, KARA (2018), Assistant Professor of Nursing, NURS,B.S.N., & M.S.N., California State University, Sacramento

SHIRSAT, ABHIJEET (2018), Assistant Professor of Recreation, Parks and Tourism Administration, RPTA,B.S., University of Pune, India; Post Graduate Diploma; Ealing, Hammersmith and West London College; M.S., Oklahoma State University; Ed.D., Bowling Green State University

SHOBAKI, GHASSAN (2015), Assistant Professor of Computer Science, CSC,B.S., University of Jordan, Amman, Jordan; M.S., University of California, Davis; Ph.D., University of California, Davis

SIDORKIN, ALEXANDER 'SASHA' (2017), Professor of Education, Graduate and Professional Studies in Education; Dean, College of Education, GPSE,Specialist, Novosibirsk State Teachers University (Novosibirsk, Russia); Ph.D., Research Institution for Theory and History of

Education (Moscow, Russia); M.A., University of Notre Dame; Ph.D., University of Washington

SIEGEL, MONA (2003), Professor of History, HIST,B.A., University of Colorado; M.A., Ph.D., University of Wisconsin

SIEGLER, MARK (2002), Professor of Economics, ECON,B.A., University of California, Santa Cruz; M.A., Ph.D., University of California, Davis

SIMPSON, LEE M.A. (2001), Professor of History; Director, General Education Honors Program, HIST,B.A., Willamette University; M.A., Ph.D., University of California, Riverside

SINGER, JENNIE (2007), Professor of Criminal Justice, CRJ,B.A., San Diego State University; M.A., Ph.D., California School of Professional Psychology, San Diego

SINGH, NANDINI (2017), Assistant Professor of Anthropology, ANTH,B.A., Knox College; M.Sc., University College London; Ph.D., Max Planck Institute of Evolutiony Anth, Germany

SINGH, AJAY (2017), Assistant Professor of Environmental Studies, ENVS,B.A. University of Oregon, Eugene; M.A. California State University, Chico; Ph.D. Ohio State, Columbus

SKINNER, STEVEN (2014), Assistant Professor of Geology, GEOL,B.S., University of California, Los Angeles; Ph.D., California Institute of Technology, Pasadena

SMART, CHRISTIE (2014), Assistant Professor of Nursing, NURS,B.S.N., California State University, Long Beach; M.S.N., California State University, Dominguez Hills; DNP Fresno State University

SMITH, GERRI (1991), Professor of Communication Studies; Chair, Department of Communication Studies, COMS,B.A., Michigan State University; M.A., United States International University; Ph.D., Ohio University

SMITH, CURTIS (2014), Professor of Chinese; Chair, Department of World Languages and Literatures, WLL,B.A., University of Wisconsin - Madison; M.A., University of Hawaii at Manoa; Ph.D. National Taiwan Normal University

SMITH, WARREN D. (1973), Professor of Electrical and Electronic Engineering, EEE,B.S., Princeton University; M.S., University of New Mexico; Ph.D., University of Oklahoma

SMITH, MAUREEN M. (1995), Professor of Kinesiology, KINS,B.S., M.S., Ithaca College, New York; M.A., Ph.D., The Ohio State University, Columbus

SNYDER, BRUCE (2005), Lecturer of Political Science, POLS,B.A., University of California Los Angeles; J.D. Loyola University; M.A., Ph.D., Claremont Graduate University

SOLARI, LYNN J (1998), Lecturer of Education, Teaching Credentials, TC,B.A., University of California, Sacramento

SOLORIO, CHRISTY (2014), Assistant Professor of Nursing; Clinic Placements Advisor, NURS,B.A., M.S.N., Ph.D, University of California, Davis

SPENCE, JOHN (2004), Professor of Chemistry, CHEM,B.S., St. Mary's College; Ph.D., University of California, Davis

SPROTT, KENNETH S. (2003), Associate Professor of Mechanical Engineering, ME,B.S., University of California, Berkeley; M.S., University of California, Irvine; Ph.D., University of California, Davis

SPROWLS, ROSALEE (1990), Professor of Biological Sciences, BIO,B.S., Ph.D., Howard University, Washington D.C.

STAGNARO, MEL J. (1995), Lecturer of English, ENGL,B.A., University of Santa Clara; M.A., California State University, Sacramento

STANLEY, ROBERT D. (2005), Lecturer of English, ENGL,B.A., University of California, Los Angeles; M.A., California State University, Sacramento

STARK, JENNY (2002), Professor of Communication Studies, COMS,B.F.A., University of Houston; M.F.A., California Institute of the Arts

STARK, HARVEY (2014), Assistant Professor of Humanities and Religious Studies, HRS,B.A. Cornell University; MSc University of Bath, UK, Ph.D. Princeton University

STARK, RACHEL (2017), Senior Assistant Librarian, Reference, SP,B.A., Willamette University; M.L.I.S., Drexel University

STEVENS, NATHAN E. (2012), Assistant Professor of Anthropology; Co-Director, Archaeological Research Center, ANTH,BA; University of California, Davis; M.A., California State University, Sacramento; Ph.D. University of California, Davis

STEVENS, MICHELLE (2007), Associate Professor of Environmental Studies, ENVS,B.A., Humboldt State University; M.S., University of Wisconsin, Madison; Ph.D., University of California, Davis

STITT, CARMEN (2008), Associate Professor of Communication Studies, COMS,B.A University of Pittsburgh, M.S. California State University, Sacramento, M.A., Ph.D., University of Arizona

STOCKERT, BRAD (2002), Professor of Physical Therapy, PT,B.S., Western Illinois University, Macomb; M.S., University of Illinois, Urbana; M.A. P.T., Stanford University; Ph.D., University of California, Davis

STOLTZ, ANN (2001), Professor of Nursing Emeritus (2010), NURS,

STONE, LYNDA D. (1998), Professor of Education, Undergraduate Studies in Education, UGSE,B.A., California State University, Dominguez Hills; M.A., University of San Francisco; Ph.D., University of California, Los Angeles

STONER, ANDREW (2015), Assistant Professor of Communication Studies, COMS,B.A., Franklin College of Indiana; M.A., Ball State University, Ph.D., Colorado State University

STRAND, SARAH (2011), Lecturer of Psychology, PSYC,B.S., Iowa State University; M.S., Ph.D., University of Massachusetts, Amherst

STRICKLAND, ORIEL J. (1996), Professor of Psychology, PSYC,B.S., University of North Carolina, Chapel Hill; M.S., Ph.D., Purdue University

SUH, YONG S. (2004), Associate Professor of Mechanical Engineering, ME,B.S., M.S., Seoul National University, Korea; Ph.D., Rensselaer Polytechnic Institute, Troy, New York

SULLIVAN, MARILEE (1988), Lecturer of Education, Graduate and Professional Studies in Education, GPSE,B.A., M.S., California State University, Sacramento

SULLIVAN, ROGER (2003), Professor of Anthropology, ANTH,B.A., M.A., Ph.D., University of Auckland, New Zealand

SUN, YANG (2007), Professor of Decision Sciences, BUS,B.E., Tsinghua University; M.S., Arizona State University

SUN, XIAOYAN (2016), Assistant Professor of Computer Science, CSC,B.E., Shandong Normal University, China; M.E., University of Science and Technology of China; Ph.D., Pennsylvania State University, Pennsylvania

SUN, LI-LING (1998), Professor of Education, Undergraduate Studies in Education, UGSE,B.A., M.A., National Cheng-Chi University, Taipei, Taiwan; Ph.D., University of California, Santa Barbara

SUTHERLAND, SUZANNE (1986), Professor of Nursing Emeritus (2013), NURS,

SWAN, KYLE S. (2013), Associate Professor of Philosophy; Director, Center for Practical and Professional Ethics, PHIL,B.A., Grove City College; M.A., Ph.D., Bowling Green State University

SWEET, NANCY F. (2005), Professor of English, ENGL,B.A., Vassar College; M.A., M.Phil., Ph.D., Columbia University

SWIM, DAVID H. (1997), Associate Professor of Criminal Justice, CRJ,B.A., California State University, Sacramento; M.P.A., California State University, Stanislaus; D.P.A., University of Southern California

T

TABOGA, PAOLO (2016), Assistant Professor of Kinesiology, KINS,B.A., B.S., University of California, Davis; M.P.H., Benedictine University; Ph.D., University of California, Davis

TACLA, CRAIG P. (2005), Associate Professor of Kinesiology, KINS,B.A., M.A., California State University, Chico; Ph.D., Virginia Polytechnic Institute and State University, Blacksburg

TADLE, RAUL (2017), Assistant Professor of Economics, ECON,B.A., University of California, San Diego; M.A., Ph.D., University of California, Santa Cruz

TASHIRO, LYNN (1991), Professor of Physics and Astronomy; Director, Center for Teaching and Learning, PHYS,B.S., University of California, Los Angeles; M.A., Ph.D., Stanford University

TAYLOR, JOSEPH (2016), Assistant Professor of Management Information Systems, BUS,B.A., Brigham Young University, Provo; M.B.A., Thunderbird University; Ph.D., Washington State University.

TAYLOR, STANLEY A. (1983), Professor of Decision Sciences, BUS,A.B., Humboldt State University; M.B.A., Ph.D., University of Oregon

TAYLOR, SUSAN A. (2000), Professor of Social Work, SWRK,B.G.S., University of Missouri-St. Louis; M.S.W., Ph.D., St. Louis University

TAYLOR, LISA (1990), Professor of Mathematics and Statistics, MATH,B.A., California State University, Sacramento; M.A., Ph.D., University of California, San Diego

TAYLOR, CHRISTOPHER L. (2003), Professor of Physics and Astronomy; Interim Chair, Department of Physics and Astronomy, PHYS,B.S., Michigan State University; Ph.D., University of Minnesota

THAKUR, SUDHIR (2005), Professor of Real Estate and Land Use Affairs, BUS,B.A., University of Delhi; M.A., Punjab University; M.A., University of Akron; Ph.D., The Ohio State University

THEODORIDES, HARRY N. (2004), Associate Professor of Kinesiology, KINS,B.S., M.S., California State University, Sacramento; Ed.D., University of Wyoming

THOMA, JUDY (2005), Lecturer in Humanities and Religious Studies, HRS,B.A., M.A., California State University, Sacramento

THOMAS, JULIE (2003), Librarian, Special Collections and University Archives, SP,B.A., Northern Illinois University; M.A., M.L.I.S., University of Wisconsin-Milwaukee

THOMPSON, HEATHER (2015), Assistant Professor of Communication Sciences and Disorders, CSAD,B.A., University of Waterloo; M.A., Western University; Ph.D., University of Utah

THOMPSON, KELLY (2014), Associate Professor of Family and Consumer Sciences, FACS,B.A., California State University, Sacramento; M.S., Ph.D., Kansas State University

TIFT, TERI (2007), Lecturer of Gerontology, GERO,DHA, University of Phoenix; MSN, California State University, Dominguez Hills; BSN California State University, Sacramento

TIMMONS, CRAIG (2014), Assistant Professor of Mathematics and Statistics, MATH,B.A., M.A., California State University, San Marcos; Ph.D., University of California, San Diego

TOISE, DAVID W. (2003), Professor of English; Chair, Department of English, ENGL,B.A., Amherst College; M.A., Ph.D., Rutgers, The State University of New Jersey

TONG, PINGSHENG (2007), Professor of Marketing, BUS,B.A., Capital Normal University; M.S., Iowa State University; M.B.A., Ph.D., Washington State University

TOPPING, TROY (2013), Assistant Professor of Mechanical Engineering, ME,B.S. California State University, Sacramento; Ph.D., University of California, Davis

TORRES, JR., SANTOS (1999), Professor of Social Work, SWRK,B.A., Aurora University; M.S.W., George Williams College; Ph.D., Northern Illinois University

TOUPS, TRACY (2015), Assistant Professor of Electrical and Electronic Engineering, EEE,B.Sc., M.S., PhD., Louisiana State University, Baton Rouge

TOWLER, CHRIS (2017), Assistant Professor of Political Science, POLS,B.A., University of Colorado, Boulder; M.A., Ph.D., University of Washington, Seattle

TRICHUR, RAGHURAMAN (2002), Professor of Anthropology, ANTH,B.Com., University of Bombay; M.Ed., George Washington University; M.A., Ph.D., Temple University

TSAI, SAN-YUN W. (1978), Professor of Management Information Systems, BUS,B.A., National Taiwan University; M.B.A., Ph.D., University of Texas, Austin

TUDOR, KRISTEN A. (2003), Lecturer of Communication Studies, COMS,B.A., Mills College; M.A., California State University, Sacramento

TURNER, BARRY (1996), Lecturer of Education, Graduate and Professional Studies in Education, GPSE,B.A., M.S., California State University, Sacramento

TUTSCHKA, MONICKA B. (2008), Associate Professor of Political Science, POLS,B.A., M.A., Tufts University, M.A., Boston College; Ph.D., University of Michigan

TUZCU, ILHAN (2008), Professor of Mechanical Engineering, ME,B.S., Dokuz Eylul University, Izmir, Turkey; M.S., University of Connecticut, Storrs; Ph.D., Virginia Polytechnic Institute and State University, Blacksburg

U

UWAZIE, ERNEST (1991), Professor of Criminal Justice; Chair, Division of Criminal Justice, CRJ,B.A., M.A., St. Edwards University, Austin; Ph.D., Arizona State University

V

VA, KA (1999), Associate Professor of Education, Undergraduate Studies in Education, UGSE,B.A., M.A., California State University, Sacramento; Ed.D., University of San Franciscoÿÿ

VADHVA, SURESH K. (1986), Professor of Electrical and Electronic Engineering, EEE,B.S., University of Tulsa, Oklahoma; M.S., Ph.D., University of New Mexico, Albuquerque

VALADEZ, MERCEDES (2017), Assistant Professor of Criminal Justice, CRJ,B.A.: California State University, Bakersfield; M.S.: California State University, Fresno; Ph.D.: Arizona State University

VALDEZ, LINDY A. (1998), Professor of Kinesiology, KINS,B.A., M.S., California State University, Sacramento; Ed.D., University of Southern California

VAN GAASBECK, KRISTIN (2002), Associate Professor of Economics; Vice-Chair, Department of Economics, ECON,B.A., Smith College; M.A., Ph.D., University of California, Davis

VanAIRSDALE, STU (2015), Lecturer of Communication Studies, COMS,B.A., California State University, Sacramento; M.A. New York Universityÿ

VANKEUREN, AMELIA (2015), Assistant Professor of Geology, GEOL,B.S., University of Southern California, Los Angeles; M.A., Ph.D., Columbia University

VANN, MICHAEL (2005), Professor of History, HIST,B.A., M.A., Ph.D., University of California, Santa Cruz

VANVALKENBURGH, MICHAEL (2014), Assistant Professor of Mathematics and Statistics, MATH,B.A., M.A., Ph.D., University of California, Los Angeles

VARANO, CHARLES S. (1998), Professor of Sociology, SOC,B.A., San Diego State University; M.A., Ph.D., University of California, San Diego

VARGAS, MARIA (2017), Associate Professor of Ethnic Studies, ETHN,B.A., New Mexico State University, Las Cruces; M.A., Ph.D., University of Maryland-College Park

VARSHNEY, SANJAY (2005), Professor of Finance, BUS,B.S., Bombay University; M.S., University of Cincinnati; Ph.D., Louisiana State University in Baton Rouge; C.F.A.

VASSIL, KRISTINA (2016), Assistant Professor of Japanese, WLL,B.A., Oberlin College; M.A., University of Pittsburg; Ph.D., University of Michigan

VELIANTIS, SPIROS (2001), Lecturer of Management Information Systems, BUS,B.S., M.S., California State University, Sacramento

VENEZIA, ANDREA (2013), Associate Professor of Public Policy and Administration; Executive Director, Education Insights Center, PPA,B.A., Pomona College; M.A., Stanford University; Ph.D., University of Texas

VENTIS, SUMMER (2017), Assistant Professor of Art, ART,B.A., Grinnell College, Grinnell, IAM.F.A., University of Colorado, Boulder, CO

VICARS, WILLIAM (2003), Professor of Education, Undergraduate Studies in Education, UGSE,B.A., Weber State University, Utah; M.S., Ed.D., Lamar University; Ph.D., Pacific Western University, Texas

VICTOR, KRISTINA (2018), Assistant Professor of Political Science, POLS,B.A., M.A., California State University, Sacramento; Ph.D., University of California, Davis

VISGER, CLAYTON J. (2017), Assistant Professor of Biological Sciences, BIO,B.S., California State University, Sacramento; Ph.D., University of Florida

VOGT, RUSTIN (2010), Assistant Professor of Mechanical Engineering, ME,B.S., California State Univeristy, Sacramento; Ph.D., University of California, Davis

VYGODINA, ANNA (2005), Associate Professor of Finance, BUS,B.S., M.B.A., M.S., University of Nebraska at Omaha; Ph.D., University of Nebraska, Lincoln

W

WADE, MARJORIE D. (1974), Professor of German, WLL,A.B., College of William and Mary; M.A., Duke University; Ph.D., University of Michigan

WAGNER, AMY (2015), Assistant Professor of Geology, GEOL,B.S., M.S., Ph.D., Texas A&M University at Galveston

WALKER, MICHAEL M. (2010), Assistant Professor of Anthropology, ANTH,B.A., University of Southern Mississippi; M.A., Ph.D., Michigan State University

WALL PARILO, DENISE (2003), Professor of Nursing, NURS,B.S.N., M.S.N., California State University, Sacramento; Ph.D., University of California, San Francisco

WALLACE, AMY (2018), Librarian; Associate Vice President of Academic Excellence, SP,B.A., M.A., San Diego State University; MLIS, San Jose State University

WALSH, DIANE (2012), Lecturer of Gerontology, GERO,MA, California State University, Sacramento; BS California State University, Sacramento

WANG, CHUNG-E (1985), Professor of Computer Science, CSC,B.S., National Taiwan University, Taiwan; Ph.D., University of Iowa, Iowa City

WANG, XUYU (2018), Assistant Professor of Computer Science, CSC,B.S., M.S., Xidian University, Xi'an, China; Ph.D., Auburn University, Alabama

WANG, HONG (2001), Librarian, Reference, SP,B.A., Wuhan University, China; M.A., University of South Florida; M.S., University of Illinois at Urbana-Champaign

WANG, TA-CHEN (2006), Professor of Economics, ECON,B.B.A., M.A., National Taiwan University; Ph.D., Stanford University

WANKET, JAMES A. (2003), Professor of Geography, GEOG,B.A., Humboldt State University; M.A., Ph.D., University of California, Berkeley

WASSMER, ROBERT W. (1995), Professor of Public Policy and Administration; Chair, Department of Public Policy and Administration, PPA,B.S., Oakland University, Michigan; M.A., State University of New York at Binghamton; Ph.D., Michigan State University

WEHR, KEVIN (2003), Professor of Sociology, SOC,B.A., University of California, Santa Cruz; M.S., Ph.D., University of Wisconsin, Madison

WELKLEY, DEBRA (1999), Lecturer in Sociology, SOC,B.A., Aurora University; M.A., Baylor University

WHEELER, STEPHEN (2013), Professor of Accountancy, BUS,B.A., M.S., California State University, Sacramento; Ph.D., Arizona State University

WICKELGREN, EMILY A. (2001), Professor of Psychology, PSYC,B.A., Grinnell College; Ph.D., Indiana University

WIE, SEUNGHEE (2001), Professor of Family and Consumer Sciences, FACS,B.S., Ewha Woman's University, Seoul, Korea; M.S., Iowa State University; Ph.D., Kansas State University

WILBER, PAMELA (1999), Lecturer of Education, Undergraduate Studies in Education, UGSE,B.A., M.A., California State University, Sacramento

WILLAMS, PETER (2016), Assistant Professor of Art, ART,B.A., University of Western Ontario; B.A., M.F.A., University of Maryland, Baltimore County

WILLIAM, LISA (2002), Professor of Education, Graduate and Professional Studies in Education, GPSE,B.A., Humboldt State University; M.A., University of San Francisco; Ph.D., University of California, Davis

WILLIAMS, MARK A.E. (2003), Professor of Communication Studies, COMS,B.A., Oral Roberts University; M.A., Ph.D., Louisiana State University, Baton Rouge

WILLIAMS, (SAMUEL) BRETT (2018), Assistant Professor of English, ENGL,B.A., Ouachita Baptist Univeristy; M.F.A., Rutgers, The State University of New Jersey

WILLIAMS, EBONY (2016), Assistant Professor of Education, Graduate and Professional Studies in Education, GPSE,B.A. UC Davis (2) M.As & Psy.D John F. Kennedy University

WILSON, JEFFREY K. (2009), Professor of History; Chair, Department of History, HIST,B.A.,University of California, Davis; M.A., Ph.D., University of Michigan

WILSON, MELINDA D. (2005), Professor of Theatre and Dance; Associate Dean, College of Arts and Letters, THEA,B.A., Vanderbilt University, Nashville, Tennessee; M.A., Ph.D., Northwestern University, Evanston, Illinois

WILSON, MARTHA C. (2004), Professor of Operations Management, BUS,B.S., Ohio State University; M.S., Colorado School of Mines; Ph.D., University of Washington

WISCONS, JOSHUA (2016), Assistant Professor of Mathematics and Statistics, MATH,B.S., M.S., Southern Illinois University, Carbondale; Ph.D. University of Colorado, Boulder

WISCONS, TOPAZ (2018), Assistant Professor of Mathematics and Statistics, MATH,B.S., University of California, Davis; Ph.D. University of Colorado, Boulder

WOLF, JENNIFER (2015), Assistant Professor of Social Work, SWRK,B.A., University of California ,Davis, MPH, MSW and Ph.D University of California, Berkeley

WONG, PIA L. (1995), Professor of Education, Graduate and Professional Studies in Education; Associate Dean, College of Education, GPSE,B.A., M.C.P., University of California, Berkeley; Ph.D., Stanford University

WOODWARD, PATRICIA J. (2003), Assistant Professor of Health Science, HLSC,B.A., M.S., California State University, Fresno; Ed.D., University of California, Davis

WRIGHT, MICHAEL T. (2002), Professor of Kinesiology; Chair, Department of Kinesiology, KINS,B.A., M.A., California State University, Chico; Ph.D., Oregon State University

WRIGHT, T. MICHAEL (2016), Assistant Professor of Biological Sciences, BIO,B.S., M.S., CSU San Marcos; Ph.D. Emory Univesity

WU, BOHSIU (1998), Professor of Sociology; Chair, Department of Sociology, SOC,B.A., Fu-Jen Catholic University; M.A., Ph.D., Bowling Green State University

WYCOFF, SUSAN E. (1997), Professor of Education, Graduate and Professional Studies in Education, GPSE,B.A., M.S., California State University, Sacramento; Ph.D., University of New Mexico, Albuquerque

X

XIONG, YAN (2002), Professor of Accountancy, BUS,B.S., Hunan Institute Finance and Economics; M.S., Xiamen University; M.S., Ph.D., Washington State University

Y

YANG, JINGWEI (2018), Assistant Professor of Computer Science, CSC,B.S., Zhejiang University, China; M.E. Tsinghua University, China; Ph.D. Iowa State University, Iowa

YAZDANI, ATOUSA (2015), Assistant Professor of Electrical and Electronic Engineering, EEE,B.Sc. Tehran University; M.Sc., Tehran Polytechnics University; Ph.D., Missouri University of Science and Technology, Rolla

YE, YUAN (2018), Assistant Professor of Operations Management, BUS,B.S., M.S., Central China Normal University, M.S. Georgia Southern University, Ph.D. University of Houston

YEN, JULIE W. (1991), Professor of English, ENGL,B.A., National Taiwan University; M.A., Ph.D., Brown University, Rhode Island

YOUNG, BRITTANY (2019), Assistant Professor of Psychology, PSYC,B.S., California State University, San Marcos; M.S., Ph.D., University of California Santa Cruz

YUEN, FRANCIS K.O. (1999), Professor of Social Work, SWRK,M.S.W., The University of Alabama, Tuscaloosa; D.S.W., The University of Alabama, Tuscaloosa

Z

ZABIHIAN, FARSHID (2011), Assistant Professor of Mechanical Engineering, ME,B.S., Amirkabir University of Technology, Tehran, Iran; M.S., Iran University of Science and Technology, Tehran, Iran; Ph.D., Ryerson University, Toronto, Ontario, Canada

ZARCHY, LEAH (2016), Assistant Professor of Education, Undergraduate Studies in Education, UGSE,B.S., New Mexico University; M.A., Gallaudet University; Ph.D., The University of Texas at Austin

ZARGHAMI, MAHYAR (2011), Associate Professor of Electrical and Electronic Engineering, EEE,B.S., K.N. Toosi University of Technology, Tehran, Iran; M.S., Sharif University of Technology, Tehran, Iran; Ph.D., Missouri University of Science and Technology, Rolla

ZARINS, KIM (2009), Associate Professor of English, ENGL,B.A., University of California Los Angeles; M.A., Ph.D., Cornell University;

ZEANAH, DAVID W. (1999), Professor of Anthropology, ANTH,B.A., University of Alabama, Tuscaloosa; Ph.D., University of Utah, Salt Lake City

ZEIGLER, DAVID (2003), Professor of Mathematics and Statistics; Chair, Department of Mathematics and Statistics, MATH,B.A., University of California, Berkeley; M.S., Ph.D., Texas A&M University

ZHANG, JIN (2008), Associate Professor of Accountancy, BUS,M.S., Ph.D., University of Texas, Dallas

ZHANG, CUI (1996), Professor of Computer Science; Chair, Department of Computer Science, CSC,B.S., M.S., Ph.D., Nanjing University, China

ZHANG, BIN (2003), Librarian, Digital Information Services Librarian, SP,B.S., Xinjiang Agricultural University; M.L.I.S., University of Hawaii at Manoa

ZHONG, JIANYUAN KATHY (2003), Professor of Mathematics and Statistics, MATH,B.S., Beijing University; M.S., Ph.D., Louisiana State University

ZHOU, DONGMEI (2005), Professor of Mechanical Engineering, ME,B.S., M.S., University of Shanghai for Science & Technology; Ph.D., University of Texas at Austin

ZHOU, JIAN-ZHONG (JOE) (2000), Librarian, Head of Reference, SP,B.S., Physics, Beijing Normal University, China; M.L.I.S., Dominican University, River Forest, IL.; M.B.A., University of Delaware, Newark

ZHOU, YAN (2006), Professor of Economics, ECON,B.A., M.A., Renmin University of China; M.A., Ph.D., University of California, Santa Cruz

ZUCKER, LAUREL L. (1988), Professor of Music, MUSC,B.M., Juilliard School, New York; M.A., New York University

ZUCKERMAN, S. DAVID (2003), Professor of Communication Studies, COMS,B.A., California Polytechnic State University, Pomona; M.A., California State University, Los Angeles; Ph.D., University of Oklahoma

FACULTY EMERITI

A

ADAMS, RICHARD M. (1986), Professor of English Emeritus (2006)

ADAMS, LORNA (1967), Professor of Music Emeritus (1992)

ADDICOTT, JOHN P. (1974), Professor of Speech Pathology and Audiology Emeritus (2004)

AGOSTA, LUCIEN L. (1987), Professor of English Emeritus (2005)

AICHELE, ROBERT E. (1969), Professor of Music Emeritus (1983)

AL-KAZILY, JOAN (1984), Professor of Civil Engineering Emeritus (2002)

ALEXANDER, ELAINE E. (1974), Professor of Mathematics and Statistics Emeritus (2009)

ALLEN, ADINA (1967), Professor of Social Work Emeritus (1986)

ALLEN, KATE M. (1989), Associate Professor of Social Work Emeritus (1999)

ALVAYAY, JAIME R. (1991), Professor of Real Estate and Land Use Affairs Emeritus (2016)

AMOS-WAGNER, GWEN (1987), Professor, Department of Design, Graphic Design Program Emeritus (2014)

AMUNDSEN, KIRSTEN (1969), Professor of Political Science Emeritus (1992)

ANDERSON, LEE (1970), Professor of Design Emeritus (2000)

ANDERSON, CLIFFORD E. (1969), Professor of Philosophy Emeritus

ANDREWS, E. EARL (1956), Professor of Home Economics Emeritus (1979)

ANTALOCY, STEPHANIE (1972), Professor of English Emeritus (2005)

ARELLANES, ROBERT V. (1970), Professor of Economics and Ethnic Studies Emeritus and Dean of Regional and Continuing Education Emeritus (1997)

ARMSTRONG, TROY L. (1987), Professor of Anthropology Emeritus (2005)

ARNOLD, BRIGHAM A. (1954), Professor of Geography Emeritus (1987)

ASTON, DUANE RALPH (1968), Professor of Physics and Astronomy Emeritus (1997)

AVENDANO, FAUSTO (1973), Professor of Spanish and Portuguese Emeritus (2005)

AVERY, WILLIAM E. (1998), Professor of Biological Sciences Emeritus (2018)

B

BAAD, MICHAEL F. (1969), Professor of Biological Sciences Emeritus (2003)

BALACHANDRA, JOHN C. (1984), Professor of Electrical and Electronic Engineering Emeritus (2010)

BALANTAC, DEANNA D. (1974), Professor of Nursing Emeritus (2000)

BALL, JOYCE (1980), Dean and University Librarian Emeritus (1987)

BALLARD, RUTH E. (1998), Professor of Biological Sciences Emeritus (2016)

BALLARD-ROSA, MAURINE (1988), Professor of Education Emeritus

BANDY, RABINDRANATH (1985), Professor of Mechanical Engineering Emeritus (2012)

BANKOWSKY, RICHARD J. (1959), Professor of English Emeritus (1997)

BARAKATT, EDWARD T. (1997), Professor of Physical Therapy Emeritus

BARNES, GENE A. (1967), Professor of Physics and Astronomy Emeritus (1992)

BARNES, CAROLE W. (1964), Professor of Sociology; Director, Institute for Social Research Emeritus (2000)

BARRENA, JUANITA (1975), Professor of Biological Sciences Emeritus(2011)

BARTEE, BARBARA (1956), Professor of Physical Education Emeritus (1992)

BASGALL, MARK E. (1995), Professor of Anthropology Emeritus (2014)

BATT, FRED (1988), Librarian, Reference Emeritus (2011)

BAUERLY, JOAN L. (1974), Professor of English Emeritus (2001)

BAY, RICHARD J. (1982), Professor of Theatre and Dance Emeritus (2006)

BEARD, DORIS M. (1961), Professor of Family and Consumer Sciences Emeritus (1999)

BECKER, RONALD W. (1971), Professor of Electrical and Electronic Engineering Emeritus (2004)

BEELICK, SUSAN A. (1988), Humanities Reference Librarian Emeritus (2000)

BELL, DAVID HARTMAN (1973), Professor of English Emeritus (2005)

BENES, ELINOR S. (1969), Professor of Biological Sciences Emeritus (1988)

BERGQUAM, JAMES BRYAN (1968), Professor of Mechanical Engineering Emeritus (2005)

BERTONASCO, MARC F. (1964), Professor of English Emeritus (1998)

BEST, THOMAS D. (1980), Professor of Operations Management Emeritus (2000)

BIAGI, SHIRLEY A. (1975), Professor of Communication Studies Emeritus (2005)

BIKLE, BRUCE (2001), Associate Professor of Criminal Justice Emeritus (2011)

BISHARAT, KEITH (1992), Professor of Construction Management Emeritus (2018)

BLACKWELL, FREDERICK W. (1978), Professor of Computer Science Emeritus (1997)

BLANC, MARIO (1990), Professor of Spanish Emeritus (2018)

BLANTON, ANN (2008), Assistant Professor of Communication Sciences and Disorders Emeritus

BOLAR, SALLY (1977), Professor of Recreation and Leisure Studies Emeritus (1991)

BOLAR, MARLIN L. (1962), Professor of Biological Sciences Emeritus (1987)

BOLES, LARRY A. (1999), Professor of Speech Pathology and Audiology Emeritus

BOLTZ, RONALD P. (1972), Professor of Social Work Emeritus (2005)

BORER-SKOV, LONDA L. (1973), Professor of Chemistry Emeritus (2003)

BORUNDA, ROSE (2002), Professor of Education Emeritus

BOSSERT, JOHN M. (1969), Professor of Mathematics and Statistics Emeritus (2000)

BOULGARIDES, LOIS (2012), Lecturer of Physical Therapy Emeritus

BOWLES-OSBORN, KATHLEEN (1991), Professor of Nursing Emeritus (2003)

BOYES, CALVIN R. (1956), Professor of Physical Education Emeritus (1991)

BRADLEY, EDWARD (1983), Professor of Mathematics and Statistics Emeritus (2015)

BRAHAM, MARY L. (1986), Professor of Nursing Emeritus (2005)

BRECHT, H. DAVID (1979), Professor of Accounting Emeritus (2005)

BRIDGES, CLAUDIA (2002), Associate Professor of Marketing Emeritus (2012)

BROCK, RICHARD K. (1977), Professor of Marketing Emeritus (1997)

BROWN, MARGARET CAROL (1973), Professor of Spanish Emeritus (2003)

BROWN, ORIE A. (1973), Professor of Criminal Justice Emeritus (2001)

BUDGE, WILLIAM (1991), Business Reference Librarian Emeritus (2002)

BURGESS, HELENE (1973), Professor of Psychology Emeritus (2006)

BURNETT, NICHOLAS F. (1987), Professor of Communication Studies

BURTON, DUDLEY J. (2002), Professor of Environmental Studies Emeritus (2017)

BUSICK, DEAN (1970), Professor of Theatre and Dance Emeritus (2007)

BUSS, STEVEN E. (1985), Professor of Communication Studies Emeritus (FERP)

BYNUM, JR., WILLIAM A. (1969), Professor of Physical Education Emeritus (1991)

C

CAHILL, PAUL (1990), Professor of Communication Studies Emeritus (2006)

CAJUCOM, EDILBERTO Z. (1973), Professor of Recreation and Leisure Studies Emeritus (2001)

CAKOUROS, ANDONIA (1977), Professor of Theatre and Dance Emeritus (2010)

CALANDRI, KEVIN (1979), Professor of Economics Emeritus (2003),

CALDERONE, JULIUS (1965), Professor of Biological Sciences Emeritus (1988)

CARLSON, DIANE H. (1984), Professor of Geology Emeritus (2011)

CARLTON, NANCY (2001), Assistant Professor of Education Emeritus

CARR, GERALD F. (1989), Professor of German Emeritus (2000)

CARUSO, ANTHONY (1977), Professor of Civil Engineering Emeritus (2000)

CASHMAN, PAUL (1975), Professor of Criminal Justice Emeritus (1994)

CASTELLANO, OLIVIA (1972), Professor of Ethnic Studies and English Emeritus (2004)

CAVAGHAN, PEGGY J. (1971), Professor of Home Economics Emeritus (1991)

CECIL, NANCY L. (1987), Professor of Education Emeritus

CERVANTES, CHRISTI (2004), Assistant Professor of Child Development Emeritus

CHAMBERS, HENRY E. (1967), Professor of History Emeritus (2003)

CHARLTON, BARBARA (1961), Science and Technology Reference Librarian Emeritus (1990)

CHASE, LAWRENCE J. (1976), Professor of Communication Studies Emeritus (2017)

CHEONG-SIAT-MOY, FRANCOIS (1980), Professor of Civil Engineering Emeritus (2009)

CHESHIER, PATRICIA A. (1984), Professor of Finance and Insurance Emeritus (2015)

CHING, ROBERTA J. (1985), Professor of English Emeritus (2011)

CHIU, PING (1970), Professor of History and Ethnic Studies Emeritus (1980)

CHRISTIAN, JR., ELIJAH (1965), Professor of Biological Sciences Emeritus (1997)

CHRISTO, CATHY (1992), Professor of Education Emeritus

CHRISTOPHER, JOHN (1963), Professor of Mathematics Emeritus (1987)

CHRUDEN, HERBERT J. (1952), Professor of Business Administration Emeritus (1981)

CLARK, JOHN B. (1980), Professor of Marketing Emeritus (2003)

CLAYSON, LOUIS O. (1959), Professor of Music Emeritus (1991)

CLEEK, MARGARET A. (1990), Professor of Organizational Behavior Emeritus (2016)

CLEVENGER, JOHN (1978), Professor of Computer Science Emeritus (2011)

COHAN, PHYLLIS LOUELLYN (1968), Professor of Political Science Emeritus (1999)

COLEMAN, COLETTE L. (1972), Professor of Speech Pathology and Audiology Emeritus (1999)

COLINGE, CYNTHIA (1992), Professor of Electrical and Electronic Engineering Emeritus (2010)

COMERCHERO, VICTOR (1963), Professor of English Emeritus (1997)

CONNOR, JOHN W. (1967), Professor of Anthropology Emeritus (1994)

COOK, ALBERT M. (1970), Professor of Electrical and Electronic Engineering Emeritus (1994)

COOPER, LYNN (1976), Professor of Social Work Emeritus (FERP)

CORLESS, JOHN C. (1984), Professor of Accountancy Emeritus (2009)

CORLEY, SALLIE J. (1980), Professor of Family and Consumer Sciences (2004)

COVIN, DAVID (1970), Professor of Political Science and Ethnic Studies Emeritus (2005)

CRABLE, RICHARD (1990), Professor of Communication Studies Emeritus (2000)

CRAFT, JR., GEORGE S. (1970), Professor of History Emeritus (2004)

CRAIN, JAY B. (1967), Professor of Anthropology Emeritus (2004)

CROSS, JANET (1984), Professor of Education Emeritus

CROW, STEPHEN R. (1989), Professor of Accountancy Emeritus (2010)

CURRENT, LINDA (1985), Lecturer of Education Emeritus

CURRY, JR., ROBERT L. (1966), Professor of Economics Emeritus (1997)

D

DA ROZA, EVANGELINA (1981), Professor of Spanish Emeritus (1996)

DABAGHIAN, LEO (1963), Professor of Mechanical Engineering Emeritus (1997)

DAS, BRAJA M. (1994), Professor of Civil Engineering Emeritus (2006)

DAVAMI, AKBAR (1988), Professor of Health Science

DAVEY, TREVOR B. (1958), Professor of Mechanical Engineering Emeritus (1996)

DAVIDSON, CANDELARIA P. (1989), Assistant Professor of Social Work Emeritus (2002)

DAVIS, FORREST R. (1994), Professor of Education Emeritus

DAVIS, ROGER (1993), Assistant Professor of Criminal Justice Emeritus (2006)

DAWSON, MARY J. (1979), Professor of Nursing Emeritus (1992)

DE HASS, STEVEN (1986), Professor of Electrical and Electronic Engineering Emeritus (2010)

DEANER, GUY E. (1977), Professor of Education Emeritus

DeBOW, KEN M. (1992), Professor of Political Science Emeritus (2003)

DECIOUS, DANIEL R. (1967), Professor of Chemistry Emeritus (2000)

DELANEY, CAROLE J. (1974), Professor of Music Emeritus (2000)

DELISLE, ALBERT L. (1956), Professor of Biological Sciences Emeritus; Curator, Goethe Arboretum (1977)

DENNIS, HARRY (1970), Professor of Spanish and Portuguese Emeritus (2000)

DEUEL, PETER G. (1956), Professor of Chemistry Emeritus (1985)

DI GIORGIO, JOSEPH B. (1964), Professor of Chemistry Emeritus (2000)

DICKINSON, RICHARD L. (1970), Professor of Business Administration; Executive Director, The California State University Real Estate and Land Use Institute Emeritus (2000)

DICKSON, M. ELAINE (1966), Professor of Human Environmental Sciences Emeritus (1995)

DOKIMOS, ELIZABETH (1972), Professor of Speech Pathology and Audiology Emeritus (2000)

DONALDSON, ROBERT C. (1957), Professor of History Emeritus (1986)

DONATH, JACKIE R. (1991), Professor of Humanities and Religious Studies Emeritus (2016)

DOOLITTLE, JOHN H. (1966), Professor of Psychology Emeritus (2001)

DORMAN, WILLIAM (1967), Professor of Political Science Emeritus (2002)

DORN, DEAN S. (1965), Professor of Sociology Emeritus (1999)

DRAPER, ROY D. (1964), Professor of Chemistry Emeritus (1992)

DRUMMOND, BRUCE (1969), Professor of Kinesiology Emeritus (2001)

DRUMMOND, JR., HERBERT W. (1954), Humanities Reference Librarian Emeritus (1992)

DUKES, R.N., MARTHA (1964), Professor of Nursing Emeritus (1996)

DUNDON, STANISLAUS J. (1994), Professor of Philosophy Emeritus (2000)

DUNSTAN, ANGUS (1989), Professor of English Emeritus

DUVAL, CLAUDE J. (1969), Professor of French Emeritus (2000)

E

EBRAHIMZADEH, ELIZABETH S. (1984), Professor of Mathematics and Statistics Emeritus (2014)

EDEN, CHARLES K. (1976), Professor of Criminal Justice Emeritus (2000)

EGAN, JOHN C. (1957), Professor of Journalism Emeritus (1983)

ELFENBAUM, LOUIS (1970), Professor of Kinesiology Emeritus (2003)

ERLICH, JOHN L. (1973), Professor of Social Work Emeritus (2003)

ESQUERRA, ROLAND F. (1972), Professor of Mathematics and Statistics Emeritus (2010)

ESTENSON, JERRY D. (1997), Professor of Organizational Behavior Emeritus (2014)

ETTER, ROBERT (1982), Professor of Mathematics and Statistics Emeritus (2010)

ETTERBEEK, WALLACE A. (1968), Professor of Mathematics and Statistics Emeritus (2003)

EWING, NICHOLAS N. (1994), Professor of Biological Sciences Emeritus (2017)

EYLAR, LEO B. (1993), Professor of Music Emeritus (2018)

F

FALZONE, PAUL R. (1971), Professor of Criminal Justice Emeritus (2001)

FARIA, IRVIN E. (1958), Professor of Kinesiology and Health Science Emeritus (1999)

FARRAND, SCOTT (1981), Professor of Mathematics and Statistics Emeritus (2016)

FIGLER, STEPHEN F. (1974), Professor of Physical Education Emeritus (1994)

FITZGERALD, MICHAEL J. (1986), Professor of Communication Studies Emeritus (2007)

FITZWATER, MICHAEL D. (1972), Professor of Geography Emeritus (2003),

FLORES, DORIS E. (1976), Professor of Kinesiology Emeritus (2018)

FOOTE, JACK E. (1981), Professor of Music Emeritus (2010)

FORKEY, DAVID M. (1969), Professor of Chemistry Emeritus (2001)

FOX, SYLVIA (1990), Professor of Communication Studies Emeritus (2007)

FOX, RONALD T. (1974), Professor of Political Science Emeritus (2005)

FOZOUNI, BAHMAN (1990), Professor of Political Science Emeritus (2015)

FRANSHAM, CARL D. (1967), Professor of Social Work Emeritus (1996)

FREUND, DWIGHT (1983), Professor of Computer Science Emeritus (2004)

FRIEDMAN, ROBERT S. (1971), Professor of Political Science Emeritus (2005)

FROST, STANLEY P. (1975), Social Science Reference Librarian Emeritus (2005)

FUOSS, DONALD E. (1971), Professor of Physical Education Emeritus (1988)

FUSON, ELGIE M. (1959), Education and Psychology Reference Librarian Emeritus (1980)

G

GAEDEKE, RALPH M. (1969), Professor of Marketing Emeritus (2002)

GALE, EMANUEL (1967), Professor of Social Work Emeritus (1998)

GAMBLES, GLENN C. (1969), Professor of Economics Emeritus (2000)

GAROSI, FRANK J. (1965), Professor of History Emeritus (2001)

GATES, THOMAS M. (1972), Professor of Theatre Arts and Ethnic Studies Emeritus (1995)

GAVIN, LLOYD A. (1973), Professor of Mathematics and Statistics Emeritus (1998)

GEHRMANN, JAMES E. (1974), Professor of Mathematics and Statistics Emeritus (2003)

GELUS, MARJORIE (1983), Professor of German Emeritus (2008)

GERTH, DONALD R. (1984), Professor of Public Policy and Administration Emeritus (2003)

GIBSON, EDWARD F. (1969), Professor of Physics and Astronomy Emeritus (2001)

GILLOTT, DONALD H. (1968), Professor of Electrical and Electronic Engineering; Dean, College of Engineering and Computer Science Emeritus (1994)

GLOVINSKY, BEN (1965), Professor of Music Emeritus (2003)

GOETZE, CAROLYNN (2005), Professor of Nursing Emeritus (2015)

GOFF, SHARMON (2002), Professor, Department of Design, Photography Program Emeritus (2012)

GOLDSMITH, JOACHIM (1972), Professor of Criminal Justice Emeritus (2003)

GOLDSTENE, PAUL N. (1970), Professor of Political Science Emeritus (1998)

GOLDSWORTHY, CANDACE L. (1985), Professor of Speech Pathology and Audiology Emeritus (2009)

GOLUB, ARNOLD M. (1976), Professor of Psychology Emeritus (2005)

GOODART, MARGARET M. (1971), Professor of History Emeritus (2000)

GOODRICH, LINDA (1990), Professor of Theatre and Dance Emeritus

GORDON, ALLAN M. (1969), Professor of Art Emeritus (1991)

GOSSETT, CHARLES W. (2009), Professor of Government & Public Policy and Administration Emeritus (2019)

GOTTA, JERRY M. (1969), Professor of Health and Safety Services Emeritus (1990)

GOULARD, CARY J. (1975), Professor of Recreation and Leisure Studies Emeritus (2002)

GRAY, STEVEN (1987), Professor of Recreation, Parks and Tourism Administration Emeritus

GRAY, CECILIA DOLORES (1968), Professor of Family and Consumer Sciences Emeritus (2002)

GREGG, MIGNON S. (1971), Professor of Political Science Emeritus (2005)

GRUNDY, SUSAN E. (1982), Professor of Nursing Emeritus (2005)

GUARINO, RICHARD (1980), Professor of Management Emeritus (2011)

GUINTHER, PAULINE (1970), Professor of Physical Education Emeritus (1992)

GUNSTON-PARKS, CYNTHIA A. (1985), Professor of Education Emeritus

GUNTER, ANNIK L. (1970), Professor of French Emeritus (2001)

GUSTAFSON, HARRY (1969), Professor of Criminal Justice Emeritus (1996)

GUTOWSKY, ALBERT R. (1967), Professor of Economics Emeritus (2000)

H

HAFFER, ANN G. (1986), Professor of Nursing Emeritus (2002)

HAGOPIAN, CHARLES L. (1969), Professor of Mathematics and Statistics Emeritus (2004)

HALL, DONALD E. (1974), Professor of Physics Emeritus (2003)

HALL, LEILANI A. (2002), Librarian, Reference Emeritus (2015)

HALLINAN, TIM S. (1969), Professor of Geography Emeritus (2001)

HALSETH, ROBERT (1993), Professor of Music Emeritus (2011)

HAMILTON, HOWARD B. (1974), Professor of Mathematics and Statistics Emeritus (2006)

HAMMER, J. GORDON (1977), Associate Professor of Civil Engineering Emeritus (1984)

HANSON-SMITH, ELIZABETH (1971), Professor of English Emeritus (1995)

HANSON-SMITH, BRENDA (1990), Professor of Nursing-FERP (2011)

HAQ, TALIB UL (1974), Professor of Criminal Justice Emeritus (1992)

HARRALSON, JOSEPH (1980), Professor of Mechanical Engineering (2003)

HARRIS, STEPHEN L. (1965), Professor of Humanities and Religious Studies Emeritus (2000)

HARRISON, MERNOY E. (1981), Professor of Management and Vice President for Administration Emeritus (1997)

HATTON, GAYLEN A. (1964), Professor of Music Emeritus (1979)

HATTON, LINDLE G. (1990), Professor of Strategic Management Emeritus (2017)

HAUPERT, THEODORE J. (1969), Professor of Chemistry Emeritus (1994)

HAYASHI, SHUKI (1964), Professor of Physics Emeritus (1983)

HAYASHIGATANI, SHOTARO F. (1971), Professor of Ethnic Studies and Japanese Emeritus (2001)

HEASER, EILEEN M. (1972), Librarian, Reference Emeritus (2015)

HEFLIN, THOMAS L. (1984), Professor of Finance; Director, Insurance Education and Research Program Emeritus (2001)

HEILMAN, ROBERT JAMES (1968), Professor of Social Work Emeritus (1992)

HELLER, MAHLON D. (1985), Professor of Electrical and Electronic Engineering Emeritus (2003)

HELLER, JOSEPH R. (1966), Professor of Psychology Emeritus (1996)

HELT, MARIE E. (1998), Professor of English Emeritus

HENNELLY, JR., MARK M. (1970), Professor of English Emeritus (2003)

HENRY, JOHN F. (1970), Professor of Economics Emeritus (2003)

HEREDIA, SUSAN (1995), Professor of Education Emeritus

HERNANDEZ, JAMES (1974), Professor of Criminal Justice Emeritus (2012)

HERNANDEZ, JUAN D. (1972), Professor of Social Work Emeritus (1998)

HERON, JACK E. (1964), Professor of Physical Education Emeritus (1989)

HESTER, JOHN N. (1969), Professor of Mechanical Engineering and Associate Dean Emeritus, College of Engineering and Computer Science (1995)

HILL, SAM (1968), Professor of Spanish and Portuguese Emeritus (2000)

HILL, JAMES CLIFTON (1968), Professor of Chemistry; Chair, Department of Chemistry Emeritus (2005)

HOHLWEIN, KATHRYN (1969), Professor of English Emeritus (1994)

HOLL, SUSAN L. (1980), Professor of Mechanical Engineering Emeritus (2017)

HOLLAND, MEL E. (1981), Professor of Civil Engineering Emeritus (1997)

HOLLOWAY, RONALD A. (1966), Professor of Music Emeritus (1992)

HOM, LEONARD W. (1963), Professor of Civil Engineering Emeritus (1997)

HOROBIN, KAREN D. (1994), Professor of Education Emeritus

HORTON, EDWARD J. (1968), Professor of Public Administration Emeritus (1978)

HRELJAC, ALAN (1999), Associate Professor of Kinesiology Emeritus (2007)

HUBBARD, JEFFREY C. (1970), Professor of Sociology Emeritus (1997)

HUBBELL, ROBERT (1976), Professor of Speech Pathology and Audiology Emeritus (1997)

HUFF, DENNIS K. (1973), Professor of Biological Sciences Emeritus (2001)

HUGHES, LINDA K. (1967), Associate Professor of Physical Education Emeritus (1991)

HUGHES, RICHARD D. (1964), Professor of Political Science Emeritus (2000)

HUMPHREY, ROBERT E. (1985), Professor of Communication Studies Emeritus (FERP)

HURLEY, ROBERT M. (1976), Professor of Criminal Justice Emeritus (2003)

HWANG, JOHN C. (1972), Professor of Communication Studies; Director of Asian-American Studies Emeritus (2001)

HWANG, RALPH B. (1979), Professor of Civil Engineering Emeritus (2005)

HWANG, YUH LIN (1966), Professor of Biological Sciences Emeritus (1998)

HYDE, MARY LOU (1968), Professor of Social Work Emeritus (1988)

I

ILOFF, EDWIN L. (1963), Professor of Physics Emeritus (1991)

INGRAM, JOHN (1981), Professor of Mathematics and Statistics Emeritus (2016)

ISAACS, ERNEST J. (1967), Professor of History Emeritus (1992)

J

JACKSON, OLIVER (1970), Professor of Art Emeritus (1998)

JAFFA, ROBERT E. (1965), Professor of Mathematics and Statistics Emeritus (2003)

JAKOB, FREDI (1961), Professor of Chemistry Emeritus (1996)

JAMIESON, JOHN FRANKLIN (1968), Professor of English Emeritus (2003)

JANKE, NORMAN C. (1956), Professor of Geology Emeritus (1983)

JAYNE, DEWITT W. (1962), Professor of Journalism Emeritus (1977)

JELINEK, DAVID , Professor of Education Emeritus

JENKINS, STEVEN L. (1967), Professor of Communication Studies Emeritus (2001)

JENSEN, ARTHUR N. (1976), Professor of Marketing Emeritus (2003)

JENSEN, CRISTY A. (1986), Professor of Public Policy and Administration Emeritus (2006)

JENSEN, ROBERT G. (1976), Professor of Psychology Emeritus (2006)

JOAN, DWORKIN (1994), Professor of Social Work Emeritus (FERP)

JOHNSON, THOMAS (1982), Professor of Criminal Justice Emeritus (1994)

JOHNSON, RALPH E. (1968), Professor of Social Work Emeritus (1997)

JOHNSON, JERALD J. (1969), Professor of Anthropology Emeritus (2002)

JOLLY, JAMES A. (1976), Professor of Operations/Strategic Management Emeritus (1989)

JONES, ROXALIE (1996), Lecturer Emeritus (2010)

JUSTIN, GALE (1971), Professor of Philosophy Emeritus

K

KALTENBACH, STEPHEN (1970), Professor of Art Emeritus (2000)

KAMMEYER, SHIRLEY (1959), Professor of Recreation and Leisure Studies Emeritus (1988)

KANDO, THOMAS M. (1969), Professor of Sociology Emeritus (2003)

KANTER, LOUISE (1965), Professor of Sociology Emeritus (1995)

KANTZ, JR., PAUL T. (1967), Professor of Biological Sciences Emeritus (2000)

KARAGOZOGLU, NECMI (1984), Professor of Strategic Management Emeritus (2016)

KAUFMAN, RICHARD F. (1979), Professor of Finance Emeritus (1992)

KAVALJIAN, LEROY G. (1954), Professor of Biological Sciences Emeritus (1991)

KEARLY, PATRICIA J. (1988), Professor of Education Emeritus

KELLEY, CRAIG A. (1985), Professor of Marketing Emeritus (2011)

KELLY, JR., ERWIN L. (1970), Professor of Economics Emeritus (1997)

KELTNER, JEANIE E. (1971), Professor of English Emeritus (1998)

KENDRICK, DONALD M. (1985), Professor of Music Emeritus (2018)

KENNEDY, DANIEL J. (1996), Professor of Music Emeritus (2019)

KENNEY, JIM (1988), Professor, Department of Design, Interior Design Program Emeritus (2018)

KENNY, MARY JO (1956), Professor of Home Economics Emeritus (1991)

KENT, MARILYN (1998), Assistant Professor of Social Work Emeritus (2003)

KERBY, WILLIAM C. (1967), Professor of Economics; Director, Center for Economic Education Emeritus (2001)

KERRI, KENNETH D. (1959), Professor of Civil Engineering Emeritus (1997)

KIDD, VIRGINIA (1974), Professor of Communication Studies Emeritus (2005)

KIM, JONG H. (1989), Professor of Accountancy Emeritus (2011)

KIM, CHUNG S. (1973), Professor of Chemistry Emeritus (1998)

KING, KENNETH R. (1966), Professor of Mathematics Emeritus (1992)

KINGSNORTH, RODNEY F. (1969), Professor of Sociology Emeritus (2005)

KIRLIN, MARY (2003), Associate Professor of Public Policy and Administration Emeritus (2017)

KLINGELHOFER, EDWIN L. (1956), Professor of Psychology Emeritus (1977)

KLOSS, ROBERT M. (1969), Professor of Sociology Emeritus (2000)

KOEGEL, RAYMOND P. (1976), Professor of Communication Studies Emeritus

KORNWEIBEL, RICHARD (1968), Professor of History; Coordinator of Social Science Program Emeritus (2001)

KOSTYRKO, GEORGE J. (1968), Professor of Civil Engineering Emeritus (1998)

KRAFT, IVOR (1968), Professor of Social Work Emeritus (1986)

KRAMER, JOSEPH R. (1971), Science and Technology Reference Librarian Emeritus (1999)

KROLAK, RICHARD (1973), Professor of Political Science Emeritus (1997)

KUSNICK, JUDITH E. (1996), Professor of Geology Emeritus

KUTCHINS, HERBERT I. (1974), Professor of Social Work Emeritus (1998)

KUTZER, WILLIAM F. (1965), Professor of Kinesiology Emeritus (2001)

L

LAI, SHEILA S. (1974), Social Science Reference Librarian Emeritus (2000)

LAM, SIU-WA 'MONICA' (1994), Professor of Management Information Systems Emeritus (2018)

LAN, KWAI-TING (1983), Professor of Computer Science Emeritus (2011)

LANDIS, JUDSON (1962), Professor of Sociology Emeritus (2015)

LANGHAM, JERI MAJOR (1970), Professor of Biological Sciences Emeritus (2003)

LaROCCO, JOHN B. (1993), Professor of Law Emeritus (2018)

LARSON, SHIRLEY G. (1974), Professor of Home Economics Emeritus (1991)

LATHI, BHAGAWANDAS P. (1980), Professor of Electrical and Electronic Engineering Emeritus (1997)

LEE, MING-TUNG 'MIKE' (1990), Professor of Marketing Emeritus (2018)

LEE, MARY JANE (1984), Professor of Computer Science Emeritus (2010)

LEE, UNJA (1966), Professor of Political Science Emeritus (1992)

LEE, DAVID K. (1966), Professor of Sociology Emeritus (1998)

LEE, IVY (1970), Professor of Sociology Emeritus (1996)

LeFEBVRE, EDITH E. (1986), Professor of Communication Studies Emeritus (FERP)

LeGARE, MIRIAM C. (1972), Professor of Psychology Emeritus (2001)

LEGORRETA, LEONARDO (2002), Assistant Professor of Management Information Systems Emeritus (2010)

LEIDAHL, GORDON A. (1974), Professor of Biological Sciences Emeritus (2003)

LEON, DAVID J. (1988), Professor of Ethnic Studies Emeritus (2017)

LEVIN, AL S. (1998), Professor of Education Emeritus

LEWIS, H. CLARE (1996), Professor of Physical Therapy Emeritus

LIBERTY, JOHN J. (1963), Social Science and Business Administration Reference Librarian Emeritus (1992)

LIU, TIEN-I (1987), Professor of Mechanical Engineering Emeritus (2011)

LIVEZEY, ROBERT L. (1954), Professor of Biological Sciences Emeritus (1976)

LONAM, JO A. (1966), Professor of Interior Design Emeritus (1994)

LONG, ROBERT E. (1965), Professor of History Emeritus (2000)

LONG, DAVID W. (1967), Professor of Philosophy Emeritus (2000)

LOO, MELANIE (1977), Professor of Biological Sciences Emeritus (2009)

LoVERSO, ROSABIANCA (1967), Professor of French and Italian Emeritus (1991)

LOWER, RICHARD C. (1966), Professor of History Emeritus (1998)

LUK, KENNETH (1991), Professor of Chinese, Japanese, Linguistics Emeritus (2006)

LUM, CLAUDYA (2004), Assistant Professor of Education Emeritus

LUM, DOMAN (1974), Professor of Social Work Emeritus (2003)

LUND, PETER B. (1970), Professor of Economics Emeritus (2002)

LUTHER, LESTER CHARLES (1968), Professor of Mechanical Engineering Emeritus (1994)

M

MacINTOSH, RANDALL C. (1997), Professor of Sociology

MACKEY, MARY (1972), Professor of English Emeritus (2003)

MACKEY, JAMES T. (1987), Professor of Accountancy Emeritus (2011)

MADDEN, DAVID (1982), Professor of English Emeritus

MAHAJAN, SUKHBIR (1975), Professor of Physics and Astronomy Emeritus (2005)

MALELU, SHARAD J. (1959), Professor of Sociology Emeritus (1983)

MALET, JACQUES F. (1975), Professor of French Emeritus (2001)

MARCUS, IRVING E. (1959), Professor of Art Emeritus (1991)

MARENS, RICHARD S. (2002), Professor of Management Emeritus (2016)

MARINOBLE, RITA M. (1994), Professor of Education Emeritus

MARKOVIC, MIROSLAV (1978), Professor of Electrical and Electronic Engineering Emeritus (2009)

MARRAH, GEORGE L. (1957), Professor Finance Emeritus (1983)

MARSH, SHEILA J. (1970), Media Services Librarian Emeritus (1990)

MARSHALL, FREDRICK S. (1988), Professor of English Emeritus (2009)

MARTELL, CHARLES (1983), Dean and University Librarian Emeritus (2000)

MARTIN, DAVID (1983), Professor of Communication Studies Emeritus (2005)

MARTINEZ, MIGUEL (1979), Professor of Education Emeritus

MATTHEWS, RILDA (2007), Lecturer of Nursing Emeritus (2014)

MAW, VIRGINIA (1968), Assistant Professor of Librarianship Emeritus (1975)

MAYER, CAROLE (1977), Professor of Speech Pathology and Audiology Emeritus (2003)

McALISTER, FLOYD L. (1961), Professor of English Emeritus (1991)

MCBRIDE, JOEL P. (1966), Professor of Political Science Emeritus (1997)

MCCARTNEY, JAMES H. (1974), Professor of Speech Pathology and Audiology Emeritus (2005)

McCLURE, III, JOHN D. (1956), Social Science and Business Administration Reference Librarian Emeritus (1992)

McCRYSTLE, MICHAEL J. (1996), Associate Professor of Criminal Justice Emeritus (2003)

McDANIEL, GERALD R. (1961), Professor of Political Science Emeritus (1992)

McGINNIS, PAUL J. (1958), Professor of English Emeritus (1991)

McGINTY, SUSAN (1995), Professor of Physical Therapy Emeritus

MCGRAW, GWENDOLYN G. (1996), Assistant Professor of Music Emeritus (2004)

McKEE, SUSIE D. (1988), Professor of English Emeritus (2010)

McNAMEE, CAROLE (1991), Professor of Computer Science Emeritus (2001)

MEEKER, GARY L. (1967), Professor of Biological Sciences Emeritus (2001)

MEIER, SUSAN T. (1976), Professor of Criminal Justice Emeritus (2000)

MEINDL, ROBERT J. (1965), Professor of English Emeritus (2002)

MEJORADO, MARIA (2001), Associate Professor of Education Emeritus

MERCHANT, JOHN E. (1983), Professor of Strategic Management Emeritus (2001)

MERRITT, MARILYN A. (1988), Social Science Reference Associate Librarian Emeritus (1997)

METCALF, ROBERT (1970), Professor of Biological Sciences Emeritus (2007)

MEYERS, MARTIN (1984), Lecturer Emeritus (2005)

MILCHRIST, PAMELA (1973), Professor of Kinesiology Emeritus (2000)

MILES, L. ROBERT (1971), Professor of English Emeritus (1998)

MILES, JOHN G. (1970), Professor of Computer Science Emeritus (2000)

MINOR, EDWARD O. (1974), Professor of Communication Studies Emeritus (1988)

MITCHELL, WILLIAM J. (1984), Professor of Computer Science Emeritus (2010)

MOMENT, JOAN V. (1972), Professor of Art Emeritus (2002)

MONTGOMERY, MARY BETH (1978), Professor of Social Work Emeritus (2004)

MOON, S. JOAN (1970), Professor of History Emeritus (2000)

MOORE, CHARLES A. (1968), Professor of English Emeritus (1998)

MOORE, SHIRLEY A. (1989), Professor of History Emeritus (2010)

MOORE, KATHLEEN C. (1996), Professor of Spanish Emeritus (2009)

MOORE, JOEL K. (1979), Professor of Civil Engineering Emeritus (2003)

MOORE, KAREN M. (1987), Professor of Education Emeritus

MORROW, JOSEPH E. (1970), Professor of Psychology and Behavior Analysis Emeritus (2002)

MORSE, JOHN THOMAS (1968), Professor of Biological Sciences Emeritus (1995)

MOSER, CHARLES R. (1966), Professor of Biological Sciences Emeritus (2000)

MOULDS, ELIZABETH F. (1972), Professor of Public Policy and Administration Emeritus (2003)

MULLER, WAYNE CLINTON (1968), Professor of Political Science Emeritus (1994)

MULLIN, MICHAEL (1970), Professor of History Emeritus (1995)

MUTHER, KAY F. (1987), Humanities Reference Librarian Emeritus (1999)

N

NAVARI, SYLVIA C. (1987), Professor of Social Work Emeritus (2005)

NAVE, MICHAEL E. (2000), Professor of Health Science Emeritus (2019)

NDLELA, ZOLILI (1991), Associate Professor of Physics and Astronomy

NEIDE, JOAN L. (1991), Professor of Kinesiology Emeritus

NELSON, CHARLES G. (1965), Professor of Electrical and Electronic Engineering Emeritus (1998)

NELSON, ROBYN M. (1973), Professor of Nursing Emeritus (2007)

NEUMAN, WILLIAM R. (1962), Professor of Civil Engineering Emeritus (1997)

NEWCOMB, CHARLES P. (1969), Professor of Physics Emeritus (2001)

NG, K.C. (1983), Professor of Mathematics and Statistics Emeritus (2010)

NGO, THINH DINH (1981), Professor of Mechanical Engineering Emeritus (2004)

NICKLES, RICHARD A. (1975), Professor of Civil Engineering Emeritus (1990)

NICOLA, JO-ANN (1973), Professor of Family and Consumer Sciences Emeritus (2000)

NOBLE, PAUL (1970), Professor of Chemistry; Associate Vice President for Academic Affairs, Planning and Resources Emeritus (2006)

NOSTRANT, DONALD W. (1980), Professor of Civil Engineering Emeritus (2003)

NYE, VIRGINIA (1962), Professor of Music Emeritus (1991)

NYSTROM, BRADLEY (1991), Professor of Humanities and Religious Studies Emeritus (2018)

O

O'CONNOR, BARBARA (1972), Professor of Communication Studies Emeritus (2005)

O'LEARY, MARION H. (1996), Professor of Chemistry; Dean, College of Natural Sciences and Mathematics Emeritus

O'NEILL, SHEILA K. (1999), Librarian, Special Collections and University Archives Emeritus (2017)

OGDEN, JACK F. (1965), Professor of Art Emeritus (1999)

OLDENBURG, JOHN T. (1989), Professor of Electrical and Electronic Engineering Emeritus (2010)

OLMSTEAD, JR., ROBERT T. (1969), Professor of English Emeritus (2000)

OLSON, CRYSTAL (2002), Associate Professor of Education Emeritus

OLSON, ERNEST G. (1978), Professor of Recreation and Leisure Studies Emeritus (2006)

OREY, DANIEL C. (1987), Professor of Education Emeritus

ORSINI, JOSEPH L. (1983), Professor of Marketing Emeritus (2001)

OSBORN, PHILLIP WALLACE (1968), Professor of Mechanical Engineering Emeritus (1982)

OSTERTAG, BRUCE (1981), Professor of Education Emeritus

OWEN, BILL (1990), Professor of Communication Studies Emeritus

P

PALMER, LINDA (1983), Professor of English Emeritus (2002)

PANNETON, JOHN (2006), Assistant Professor of Criminal Justice Emeritus (2011)

PARKER, CLYDE D. (1949), Professor of Journalism Emeritus (1974)

PARKER, BRIAN P. (1973), Professor of Criminal Justice Emeritus (1988)

PARROTT, GEORGE L. (1969), Professor of Psychology Emeritus (2007)

PARSONS, JERRY L. (1976), Systems Librarian Emeritus (1992)

PARTOVI, M. HOSSEIN (1983), Professor of Physics and Astronomy Emeritus (2011)

PEEK, RONALD WILLIAM (1968), Professor of Kinesiology Emeritus (2004)

PERFLER, OLAF K. (1967), Professor of German Emeritus (2000)

PERLICK, WALTER W. (1995), Professor of Finance Emeritus (2003)

PFEIFER, JEANNE E. (1985), Professor of Education Emeritus

PHELPS, THOMAS R. (1970), Professor of Criminal Justice Emeritus (1998)

PHELPS, JAMES O. (1982), Professor of Physics and Astronomy

PHILLIPS, JR., ROBERT M. (1969), Professor of Geography Emeritus (1997)

PICKETT, MANUEL (1980), Professor of Theatre and Dance Emeritus (2007)

PINCH, KATHERINE (2002), Professor of Recreation, Parks and Tourism Administration Emeritus

PITTI, JOSEPH A. (1970), Professor of History and Ethnic Studies Emeritus (2005)

PITTMAN, DEBORAH (1991), Professor of Music Emeritus (2008)

PLATT, ANTHONY (1976), Professor of Social Work Emeritus (2003)

PLATZNER, ROBERT L. (1970), Professor of Humanities and Religious Studies Emeritus (2001)

PLETCHER, DALE D. (1975), Professor of Finance (2004)

PLUMMER, CHARLES C. (1970), Professor of Geology Emeritus (1998)

POLAND, JAMES M. (1975), Professor of Criminal Justice Emeritus (2000)

POLASTRI, RICCARDO P. (1981), Associate Professor of Management Emeritus (1988)

POST, JAMES L. (1968), Professor of Civil Engineering Emeritus (1992)

POTTER, ROLLIN R. (1990), Professor of Music Emeritus (2004)

PRICE, JONATHAN LEE (1968), Professor of English Emeritus (2005)

PRICE, NORMA LEE (1969), Professor of Physical Education Emeritus (1991)

PRITCHARD, ROBERT (2001), Professor of Education Emeritus

PROCTOR, SUSAN E. (1974), Professor of Nursing Emeritus (2003)

PUTTERMAN, THEODORE L. (1969), Professor of Political Science Emeritus (1998)

PYNE, THOMAS F. (1984), Professor of Philosophy Emeritus

Q

QUADE, ANE M. (1989), Associate Professor of Economics Emeritus (2001)

QUATTRIN, JUDY M. (1971), Lecturer of Recreation and Leisure Studies Emeritus (2001)

R

RADECKI, FRANCIS R. (1967), Professor of Journalism Emeritus (1984)

RADIMSKY, ANNE-LOUISE (1979), Professor of Computer Science Emeritus (2008)

RAINGRUBER, BONNIE (1991), Professor of Nursing Emeritus (2018)

RAMACHANDRAN, DORAISWAMY (1983), Professor of Mathematics and Statistics Emeritus (2010)

RASKE, DAVID (1976), Professor of Education Emeritus

REARDON, FREDERICK H. (1966), Professor of Mechanical Engineering Emeritus (2001)

REDDICK, MARY (2001), Librarian, Head of User Services Emeritus (2017)

REESE, ROBIN (1981), Professor of Kinesiology Emeritus (2006)

REIHMAN, MARY ANN (1977), Professor of Biological Sciences Emeritus (2007)

RENDON, ANDRES (1970), Professor of Sociology and Ethnic Studies Emeritus (2001)

REVELEY, BETTY R. (1965), Professor of English Emeritus (1991)

RICE, JUANITA J. (1985), Professor of Theatre and Dance Emeritus (2001)

RICHARDS-EKEH, KAYLENE A. (1989), Associate Professor of Criminal Justice Emeritus (2011)

RICHARDSON, ROBERT T. (1977), Professor of Geography Emeritus (2003)

RIEGEL, MICHAEL B. (1976), Professor of Art Emeritus (2005)

RILEY, MARK T. (1969), Professor of Classics Emeritus (2005)

RIOS, JR., SAM (1972), Professor of Anthropology and Ethnic Studies Emeritus (2002)

RIPPON, RUTH M. (1957), Professor of Art Emeritus (1987)

ROBERTS, CHARLES E. (1970), Professor of History and Ethnic Studies Emeritus (2004)

ROBINETT, LOUISE (1969), Professor of Social Work Emeritus (1982)

ROBINSON, LEWIS S. (1987), Professor of Chinese Emeritus (2008)

ROCHE, GEORGE W. (1969), Professor of Criminal Justice Emeritus (1983)

RODRIGUEZ, MARK (2002), Professor of Education Emeritus

RODRIGUEZ, RAUL N. (1987), Professor of Education Emeritus

ROGERS, MARTIN (1968), Professor of Psychology Emeritus (2002)

ROLOFF, HARVEY J. (1956), Professor of Physical Education Emeritus (1983)

ROMBOLD, CHARLES C. (1968), Professor of Recreation and Leisure Studies Emeritus (1991)

RONAYNE, BETTY (1991), Librarian, Reference Emeritus

ROSCOE, ADA (1976), Professor of Spanish Emeritus (1995)

ROSSER, ELLEN (1966), Professor of English Emeritus (1986)

ROTHMAN, GERALD C. (1967), Professor of Social Work Emeritus (1998)

RUIZ, NADEEN (1992), Professor of Education Emeritus

RUSHKIN, WALLACE (1967), Professor of Music Emeritus (1992)

RUSSELL, JOSEPH L. (1972), Professor of Criminal Justice Emeritus (2000)

RUSSELL, JOHN G. (1969), Professor of Chemistry Emeritus (2003)

S

SAMANTRAI, KRISHNA (1987), Professor of Social Work Emeritus (1997)

SANDER, LARRY L. (1969), Professor of Economics Emeritus (1998)

SANDMAN, THOMAS E. (1990), Professor of Management Information Systems Emeritus (2014)

SANTANA, MARIELA (1998), Associate Professor of Spanish Emeritus (2017)

SANTANA, JORGE A. (1972), Professor of Spanish Emeritus (2006)

SANTORA, RONALD A. (1972), Professor of English Emeritus (2005)

SATO, EDWARD H. (1964), Professor of Recreation and Leisure Studies Emeritus (1983)

SCARBOROUGH, KAREN L. (1973), Professor of Kinesiology Emeritus (2000)

SCHAEUBLE, JOHN LOWELL (1968), Professor of Psychology Emeritus (2006)

SCHAFFER, BURTON F. (1975), Professor of Finance Emeritus (2002)

SCHEEL, DANIEL CURTIS (1969), Professor of Economics Emeritus (2001)

SCHMITZ, DENNIS M. (1966), Professor of English Emeritus (1997)

SCHNEIDER, FREDERICK H. (1986), Professor of Mechanical Engineering Emeritus (2000)

SCHOLL, DALE (1977), Professor of Theatre and Dance Emeritus (2004)

SELNICK, DONNA S. (1971), Professor of Family and Consumer Sciences Emeritus (2004)

SENEY, DONALD (1970), Professor of Political Science Emeritus (2002)

SERI, ARMAND (1964), Professor of Mathematics and Statistics Emeritus (1996)

SERRANO, ESTELA S. (1964), Professor of Spanish and Ethnic Studies Emeritus (2000)

SEXTON, TERRI A. (1987), Professor of Economics Emeritus (2015)

SHABAN, JANET (1970), Professor of Psychology Emeritus (1998)

SHANNON, GARY P. (1986), Professor of Mathematics and Statistics Emeritus (2016)

SHEA, EDWARD (1990), Professor of Mathematics and Statistics Emeritus (2017)

SHEA, MICHAEL J. (1969), Professor of Physics Emeritus (2003)

SHEK, RICHARD H. (1976), Professor of Humanities and Religious Studies Emeritus (2014)

SHEPARD, WILLIAM (1982), Professor of Biological Sciences Emeritus (2003)

SHOEMAKER, GARY (1983), Professor of Physics and Astronomy

SHULOCK, NANCY B. (1974), Professor of Public Policy and Administration Emeritus (2014)

SHUMATE, HARVEY L. (1960), Professor of Theatre Arts Emeritus (1991)

SIME, RODNEY J. (1959), Professor of Chemistry Emeritus (1992)

SIMES, JAMES GORDON (1968), Professor of Electrical and Electronic Engineering Emeritus (1998)

SKUBE, JOHN E. (1964), Professor of Kinesiology and Health Science Emeritus (1998)

SLAYMAKER, SUSAN CLARK (1973), Professor of Geology Emeritus (2005)

SMITH, VAL R. (1976), Professor of Communication Studies Emeritus (2018)

SMITH, CHERRYL (1990), Professor of English Emeritus

SMITH, RICHARD A. (1986), Lecturer Emeritus (2007)

SNOW, MARINA S. (1978), Librarian Emeritus (1995)

SPRAY, LINDA C (1990), Lecturer of Education Emeritus

STEVENS, JOHN L. (1970), Professor of Physics and Astronomy Emeritus (2005)

STEVENSON, ELIZABETH MARILYN (1968), Professor of Physical Education Emeritus (1991)

STEWARD, DONALD L. (1987), Professor of Civil Engineering Emeritus (1998)

STEWARD, DONALD V. (1978), Professor of Computer Science Emeritus (1996)

STOFFERS, KARL E. (1965), Professor of Electrical and Electronic Engineering Emeritus (1998)

STONER, MARK REED (1989), Professor of Communication Studies Emeritus (2016)

STRADLEY, LYNN (1977), Professor of Music Emeritus (2007)

STRASSER, M. ELIZABETH (1990), Professor of Anthropology Emeritus (2017)

SU, HON-HSIEH (1967), Professor of Civil Engineering Emeritus (1997)

SUDER, HAZEL B. (1973), Professor of Home Economics Emeritus (1983)

SUMMERS, WORTH C. (1967), Professor of Sociology Emeritus (1995)

SUZUKI, JAMES (1976), Professor of Art Emeritus (1999)

SWEET, ROXANNA (1973), Professor of Criminal Justice Emeritus (1992)

SWENSON, SIGURD M. (1952), Librarian Emeritus (1977)

SWISHER, WORDENA (1949), Librarian Emeritus (1973)

SYER, JOHN (1983), Professor of Political Science Emeritus (2001)

T

TAIT, CHARLES W. (1972), Professor of Management Emeritus (1984)

TARANTO, DONALD H. (1969), Professor of Mathematics and Statistics Emeritus (1998)

TAYLOR, DONALD (1990), Professor of Communication Studies Emeritus (FERP)

THAYER, RICHARD H. (1980), Professor of Computer Science Emeritus (2001)

THEODORATUS, DOROTHEA J. (1967), Professor of Anthropology Emeritus (1994)

TIMMER, LOUISE F. (1976), Professor of Nursing Emeritus(2005)

TJOELKER, C. HENRY (1965), Professor of Mathematics Emeritus (1991)

TOBEY, JERRY L. (1965), Professor of History Emeritus (1998)

TOM, GAIL K. (1978), Professor of Marketing Emeritus (2006)

TOMINE, CHRIS S. (1970), Professor of Civil Engineering Emeritus (2003)

TOOL, MARCUS R. (1955), Professor of Economics Emeritus (1983)

TOOTELIAN, DENNIS H. (1973), Professor of Marketing; Emeritus (2010)

TORCOM, JEAN (1970), Professor of Political Science Emeritus (2002)

TRAINER, JILL , Professor of Biological Sciences Emeritus (2017)

TRAPP, GENE R. (1970), Professor of Biological Sciences Emeritus (2001)

TROKA, WLADYSLAW (1967), Professor of Physics Emeritus (1991)

TRUJILLO, TAMARA (1988), Collection Development Librarian, Reference Emeritus

TUCKER, STEPHANIE (1986), Professor of English Emeritus (2005)

TULLY, PAUL F. (1984), Professor of Operations/Strategic Management Emeritus (2002)

TURNER, CAROLINE S. (2009), Professor of Education Emeritus

TURNER, MARY ANN (1965), Professor of Physical Education Emeritus (1995)

TURRILL, CATHERINE L. (1995), Professor of Art Emeritus (2016)

TZAKIRI, ROBERT JEAN-PIERRE (1973), Professor of French Emeritus (1998)

U

URONE, PAUL PETER (1973), Professor of Physics and Astronomy Emeritus (2005)

V

VAIL, ROGER W. (1972), Professor of Art Emeritus (2006)

VALADEZ, SENON M. (1969), Professor of Anthropology Emeritus (2003)

VAN AUKER, ROSALIND (1980), Librarian, Reference Emeritus

VAN DE LINDT, WILLIAM (1982), Professor of Electrical and Electronic Engineering Emeritus (1990)

VAN VELKINBURG, WILLIAM G. (1970), Professor of Health and Safety Studies Emeritus (1992)

VANCOUWENBERGHE, CAROLYN (1983), Professor of Nursing FERP (2011)

VANDENBERGE, PETER (1973), Professor of Art Emeritus (1998)

VANICEK, C. DAVID (1967), Professor of Biological Sciences Emeritus (2000)

VENEZIA, PETER S. (1975), Professor of Criminal Justice Emeritus (1996)

VILLA, ESTEBAN (1969), Professor of Art Emeritus (1994)

VINES, ROSE LEIGH (1979), Professor of Biological Sciences Emeritus (2011)

VIZZARD, WILLIAM J. (1996), Professor of Criminal Justice Emeritus (2011)

VOHRYZEK-BOLDEN, MIKI (1989), Professor of Criminal Justice Emeritus (2006)

VON DEN STEINEN, KARL (1968), Professor of History Emeritus (2002)

VON FRIEDERICHS-FITZWATER, MARLENE M. (1985), Professor of Communication Studies Emeritus (2000)

W

WADE, ALAN D. (1967), Professor of Social Work Emeritus (1992)

WAGNER, DAVID L. (1975), Professor of Communication Studies; Vice President for Human Resources Emeritus

WALBURG, GERALD S. (1968), Professor of Art Emeritus (2000)

WALKER, STEPHEN A. (1969), Professor of Recreation and Leisure Studies Emeritus (1996)

WALTHER, CARL H. (1984), Professor of Finance (2004)

WANG, CHIANG (1984), Professor of Decision Sciences Emeritus (2007)

WANG, RUTH (1984), Professor of Decision Sciences Emeritus (2009)

WANLASS, SUSAN (1985), Professor of English Emeritus (2015)

WARE, JENNIFER D. (1985), Librarian, Collections Emeritus (2018)

WARE, JELINE H. (1977), Professor of Family and Consumer Sciences Emeritus (1998)

WARNER, DON (1978), Professor of Computer Science Emeritus (2004)

WASHBURN, CHARLES A. (1967), Professor of Mechanical Engineering Emeritus (1998)

WASTE, ROBERT (1997), Professor of Public Policy and Administration Emeritus (2006)

WATSON, ANNITA B. (1970), Professor of Nursing Emeritus (2002)

WEBB, DONALD P. (1975), Professor of French Emeritus (1995)

WEISS, MELFORD S. (1967), Professor of Anthropology Emeritus (2001)

WELDY, ANN T. (1974), Professor of English and Associate Dean Emeritus, College of Arts and Letters (1997)

WESPIESER, HOWARD F. (1965), Professor of Social Work Emeritus (1980)

WHEELER, GREGORY (1978), Professor of Geology Emeritus (2010)

WHITE, MALCOLM A. (1969), Professor of Marketing Emeritus (1992)

WHITESEL, LITA S. (1974), Professor of Art Emeritus (2002)

WILLIAMS, JOHN L. (1986), Professor of Communication Studies Emeritus (FERP)

WILLIAMSON, ARTHUR H. (1988), Professor of History Emeritus (2008)

WILSON, JERRY L. (1969), Professor of Chemistry Emeritus (2000)

WINDESHAUSEN, N. NICHOLAS (1962), Professor of Management Emeritus (1986)

WINKLER, MARIA (1977), Professor of Art Emeritus (2005)

WOOD, JR., CLIFFORD P. (1968), Librarian, Humanities Reference Emeritus (2001)

WUNDER, HAROLDENE (1993), Professor of Accountancy Emeritus (2015)

X

XANDERS, CHARLOTTE C. (1996), Librarian, Head of Technical Services Emeritus (2018)

Y

YAMANAKA, TOHRU (1964), Professor of Economics and Ethnic Studies Emeritus; Associate Dean of Arts & Letters Emeritus (1989)

YANG, YUNG Y. (1974), Professor of Economics Emeritus (2003)

YOUSIF, SALAH M. (1969), Professor of Electrical and Electronic Engineering Emeritus (2003)

Z

ZHOU, TONG (1988), Professor of Mechanical Engineering Emeritus (2005)

ZHOU, KECHENG (1990), Professor of Mathematics and Statistics Emeritus (2012)

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Art (p. 131)	Art	College of Arts and Letters	Graduate	MA
Art Education (p. 132)	Art	College of Arts and Letters	Undergraduate	Minor
Art History (p. 132)	Art	College of Arts and Letters	Undergraduate	Minor
Art Studio	Art	College of Arts and Letters	Undergraduate	Minor
Art Subject Matter Program: Pre-Credential Preparation (Art Education) (p. 123)	Art	College of Arts and Letters	Undergraduate	BA
Art with a Concentration in Art History (p. 124)	Art	College of Arts and Letters	Undergraduate	BA
Art with a Concentration in Art Studio (p. 126)	Art	College of Arts and Letters	Undergraduate	BA
Art with a Concentration in Studio Arts Methods (p. 126)	Art	College of Arts and Letters	Undergraduate	BA
Arts and Letters (p. 133)	College of Arts and Letters	College of Arts and Letters	Undergraduate	BA

Asian American Studies (p. 958)	Ethnic Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Asian Studies (p.)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Asian Studies with a Concentration in Chinese Studies (p. 914)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Asian Studies with a Concentration in Japanese Studies (p. 916)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Asian Studies with a Concentration in Korean Studies (p. 919)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Asian Studies with a Concentration in South and Southeast Asian (p. 921)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Astronomy (p. 872)	Physics and Astronomy	College of Natural Sciences and Mathematics	Undergraduate	Minor
Audiology (p. 643)	Communication Sciences and Disorders	College of Health and Human Services	Graduate	AUD
Behavior Analysis (p. 1067)	Psychology	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Certificate
Behavioral Sciences Gender Equality Studies (p. 425)	Branch of Teaching Credentials	College of Education	Graduate	MA
Biological Sciences (p. 785)	Biological Sciences	College of Natural Sciences and Mathematics	Undergraduate	BA
Biological Sciences (p. 803)	Biological Sciences	College of Natural Sciences and Mathematics	Undergraduate	Minor
Biological Sciences (p. 799)	Biological Sciences	College of Natural Sciences and Mathematics	Graduate	MA
Biological Sciences (p. 805)	Biological Sciences	College of Natural Sciences and Mathematics	Graduate	MS
Biological Sciences Honors Program (p. 786)	Biological Sciences	College of Natural Sciences and Mathematics	Undergraduate	BS
Biological Sciences Subject Matter Program (Pre-Credential Preparation) (p. 810)	Biological Sciences	College of Natural Sciences and Mathematics	Undergraduate	BA
Biological Sciences with a Concentration in Biomedical Sciences (p. 787)	Biological Sciences	College of Natural Sciences and Mathematics	Undergraduate	BS
Biological Sciences with a Concentration in Cell and Molecular Biology (p. 789)	Biological Sciences	College of Natural Sciences and Mathematics	Undergraduate	BS
Biological Sciences with a Concentration in Clinical Laboratory Sciences (p. 791)	Biological Sciences	College of Natural Sciences and Mathematics	Undergraduate	BS
Biological Sciences with a Concentration in Ecology, Evolution and Conservation (p. 803)	Biological Sciences	College of Natural Sciences and Mathematics	Graduate	MS

Biological Sciences with a Concentration in Ecology, Evolution, and Conservation (p. 793)	Biological Sciences	College of Natural Sciences and Mathematics	Undergraduate	BS
Biological Sciences with a Concentration in General Biology (p. 795)	Biological Sciences	College of Natural Sciences and Mathematics	Undergraduate	BS
Biological Sciences with a Concentration in Microbiology (p. 797)	Biological Sciences	College of Natural Sciences and Mathematics	Undergraduate	BS
Biological Sciences with a Concentration in Molecular and Cellular Biology (p. 807)	Biological Sciences	College of Natural Sciences and Mathematics	Graduate	MS
Biological Sciences with a Concentration in Stem Cell (p. 801)	Biological Sciences	College of Natural Sciences and Mathematics	Graduate	MA
Business Administration (p. 366)	College of Business Administration	College of Business Administration	Undergraduate	Minor
Business Administration for Executives (EMBA) (p. 364)	College of Business Administration	College of Business Administration	Graduate	MBA
Business Administration General (p. 361)	College of Business Administration	College of Business Administration	Graduate	MBA
Business Administration International (p. 390)	College of Business Administration	College of Business Administration	Graduate	MBA
Business Administration with a Concentration in Accountancy (p. 326)	College of Business Administration	College of Business Administration	Undergraduate	BS
Business Administration with a Concentration in Business Analytics in Healthcare (p. 359)	College of Business Administration	College of Business Administration	Graduate	MBA
Business Administration with a Concentration in Entrepreneurship (p. 375)	College of Business Administration	College of Business Administration	Undergraduate	BS
Business Administration with a Concentration in Entrepreneurship and Global Business (p. 388)	College of Business Administration	College of Business Administration	Graduate	MBA
Business Administration with a Concentration in Finance (p. 369)	College of Business Administration	College of Business Administration	Graduate	MBA
Business Administration with a Concentration in Finance (p. 367)	College of Business Administration	College of Business Administration	Undergraduate	BS
Business Administration with a Concentration in General Management (p. 377)	College of Business Administration	College of Business Administration	Undergraduate	BS
Business Administration with a Concentration in International Business (p. 385)	College of Business Administration	College of Business Administration	Undergraduate	BS
Business Administration with a Concentration in Management Information Systems (p. 373)	College of Business Administration	College of Business Administration	Undergraduate	BS

Business Administration with a Concentration in Management of Human Resources and Organizational Behavior (p. 379)	College of Business Administration	College of Business Administration	Undergraduate	BS
Business Administration with a Concentration in Marketing (p. 381)	College of Business Administration	College of Business Administration	Undergraduate	BS
Business Administration with a Concentration in Supply Chain Management (p. 383)	College of Business Administration	College of Business Administration	Undergraduate	BS
Business Administration with Business Honors (p. 358)	College of Business Administration	College of Business Administration	Undergraduate	BS
California Studies (p.)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Capital Fellows Certificate in Applied Policy and Government (p. 1049)	Political Science	College of Social Sciences and Interdisciplinary Studies	Graduate	Certificate
Capital Fellows Certificate in Applied Policy and Government (p. 1076)	Public Policy and Administration	College of Social Sciences and Interdisciplinary Studies	Graduate	Certificate
Career and Technical Studies (p. 543)	Branch of Undergraduate Studies in Education	College of Education	Undergraduate	BS
Chemistry (p. 820)	Chemistry	College of Natural Sciences and Mathematics	Undergraduate	BA
Chemistry (p. 825)	Chemistry	College of Natural Sciences and Mathematics	Undergraduate	Minor
Chemistry (p. 823)	Chemistry	College of Natural Sciences and Mathematics	Undergraduate	BS
Chemistry (p. 827)	Chemistry	College of Natural Sciences and Mathematics	Graduate	MS
Chemistry Subject Matter Program (Pre-Credential Preparation) (p. 829)	Chemistry	College of Natural Sciences and Mathematics	Undergraduate	
Chemistry with a Concentration in Biochemistry (p. 816)	Chemistry	College of Natural Sciences and Mathematics	Undergraduate	BA
Chemistry with a Concentration in Biochemistry (p. 827)	Chemistry	College of Natural Sciences and Mathematics	Graduate	MS
Chemistry with a Concentration in Forensics Chemistry (p. 818)	Chemistry	College of Natural Sciences and Mathematics	Undergraduate	BA
Chicanx and Latinx Studies (p. 959)	Ethnic Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Child Development (p. 546)	Child Development	College of Education	Undergraduate	Minor
Child Development (p. 544)	Child Development	College of Education	Graduate	MA
Child Development with a Concentration in Early Development, Care and Education (p. 534)	Child Development	College of Education	Undergraduate	BA

Child Development with a Concentration in Elementary Pre-Credential (p. 536)	Child Development	College of Education	Undergraduate	BA
Child Development with a Concentration in Individualized (p. 538)	Child Development	College of Education	Undergraduate	BA
Child Development with a Concentration in Integrated Pre-Credential Subject Matter (p. 539)	Child Development	College of Education	Undergraduate	BA
Child Development with a Concentration in Social and Community Settings (p. 540)	Child Development	College of Education	Undergraduate	BA
Chinese (p. 305)	World Languages and Literatures	College of Arts and Letters	Undergraduate	Minor
Civil Engineering (p. 559)	Civil Engineering	College of Engineering and Computer Science	Undergraduate	BS
Civil Engineering with a Concentration in Environmental/ Water Quality Engineering (p. 561)	Civil Engineering	College of Engineering and Computer Science	Graduate	MS
Civil Engineering with a Concentration in Geotechnical Engineering (p. 561)	Civil Engineering	College of Engineering and Computer Science	Graduate	MS
Civil Engineering with a Concentration in Structural Engineering (p. 561)	Civil Engineering	College of Engineering and Computer Science	Graduate	MS
Civil Engineering with a Concentration in Transportation Engineering (p. 561)	Civil Engineering	College of Engineering and Computer Science	Graduate	MS
Civil Engineering with a Concentration in Water Resources Engineering (p. 561)	Civil Engineering	College of Engineering and Computer Science	Graduate	MS
Civil Engineering with a Emphasis in Engineering Management (p. 561)	Civil Engineering	College of Engineering and Computer Science	Graduate	MS
Coaching (p. 690)	Kinesiology and Health Science	College of Health and Human Services	Undergraduate	Minor
Collaborative Governance (p. 1077)	Public Policy and Administration	College of Social Sciences and Interdisciplinary Studies	Graduate	Certificate
Communication Sciences and Disorders (p. 641)	Communication Sciences and Disorders	College of Health and Human Services	Undergraduate	BS
Communication Sciences and Disorders (p. 646)	Communication Sciences and Disorders	College of Health and Human Services	Graduate	MS
Communication Studies (p. 150)	Communication Studies	College of Arts and Letters	Undergraduate	Minor
Communication Studies (p. 149)	Communication Studies	College of Arts and Letters	Graduate	MA
Communication Studies with a Concentration in General Communication (p. 146)	Communication Studies	College of Arts and Letters	Undergraduate	BA

Communication Studies with a Concentration in Public Relations (p. 147)	Communication Studies	College of Arts and Letters	Undergraduate	BA
Computer Architecture (p. 584)	Computer Science	College of Engineering and Computer Science	Graduate	Certificate
Computer Engineering (p. 584)	Computer Science	College of Engineering and Computer Science	Graduate	Certificate
Computer Engineering (p. 567)	Computer Science and Electrical and Electronic Engineering	College of Engineering and Computer Science	Undergraduate	BS
Computer Engineering (p. 568)	Computer Science and Electrical and Electronic Engineering	College of Engineering and Computer Science	Graduate	MS
Computer Networks and Communications (p. 585)	Computer Science	College of Engineering and Computer Science	Graduate	Certificate
Computer Science (p. 582)	Computer Science	College of Engineering and Computer Science	Undergraduate	BS
Computer Science (p. 588)	Computer Science	College of Engineering and Computer Science	Undergraduate	Minor
Computer Science (p. 589)	Computer Science	College of Engineering and Computer Science	Graduate	MS
Construction Management, Business Administration (p. 595)	Construction Management	College of Engineering and Computer Science	Undergraduate	BS with Minor
Counseling (p. 547)	Child Development	College of Education	Undergraduate	Minor
Counseling - Vocational Rehabilitation (p. 443)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	MS
Counseling Specialization in Career Counseling (p. 443)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	MS
Counseling Specialization in Community Counseling (p. 443)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	MS
Counseling Specialization in Marriage, Family, and Child Counseling (p. 443)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	MS
Counseling Specialization in School Counseling (p. 443)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	MS
Creative Writing (p. 201)	English	College of Arts and Letters	Undergraduate	Minor
Criminal Justice (p. 662)	Division of Criminal Justice	College of Health and Human Services	Undergraduate	BS
Criminal Justice (p. 665)	Division of Criminal Justice	College of Health and Human Services	Undergraduate	Minor
Criminal Justice (p. 665)	Division of Criminal Justice	College of Health and Human Services	Graduate	MS
Curriculum and Instruction (p. 426)	Branch of Teaching Credentials	College of Education	Graduate	MA
Cyber Defense and Operations (p. 585)	Computer Science	College of Engineering and Computer Science	Undergraduate	Certificate
Cyber Information Assurance and Security (p. 585)	Computer Science	College of Engineering and Computer Science	Undergraduate	Certificate
Dance (p. 298)	Theatre and Dance	College of Arts and Letters	Undergraduate	BA
Dance (p. 300)	Theatre and Dance	College of Arts and Letters	Undergraduate	Minor
Data Management Systems (p. 585)	Computer Science	College of Engineering and Computer Science	Graduate	Certificate
Data Mining (p. 585)	Computer Science	College of Engineering and Computer Science	Graduate	Certificate

Deaf Studies (p. 542)	Undergraduate Studies in Education	College of Education	Undergraduate	BA
Design Studies (p. 162)	Department of Design	College of Arts and Letters	Undergraduate	BA
Digital Communication and Information (p. 150)	Communication Studies	College of Arts and Letters	Undergraduate	Minor
Early Childhood Special Education (p. 509)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	Credential
Earth Science (p. 850)	Geology	College of Natural Sciences and Mathematics	Undergraduate	BA
Economics (p. 929)	Economics	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Economics (p. 932)	Economics	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Economics (p. 931)	Economics	College of Social Sciences and Interdisciplinary Studies	Graduate	MA
Economics Education (p. 931)	Economics	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Certificate
Education (p. 547)	Branch of Graduate and Professional Studies in Education	College of Education	Undergraduate	Minor
Education	Branch of Graduate and Professional Studies in Education	College of Education	Undergraduate	Minor
Education Leadership (p. 428)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	MA
Education Technology (https://nextcatalog.csus.edu/colleges/education/graduate-professional-studies-education/certificate-of-competency-in-educational-technology/)	Branch of Teaching Credentials	College of Education	Undergraduate	Certificate
Educational Leadership (p. 421)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	EdD
Educational Technology (p. 429)	Branch of Teaching Credentials	College of Education	Graduate	MA
Electrical and Electronic Engineering (p. 607)	Electrical and Electronic Engineering	College of Engineering and Computer Science	Undergraduate	BS
Electrical and Electronic Engineering (p. 609)	Electrical and Electronic Engineering	College of Engineering and Computer Science	Graduate	MS
Engineering (p. 615)	College of Engineering and Computer Science	College of Engineering and Computer Science	Undergraduate	Minor
English (p. 193)	English	College of Arts and Letters	Undergraduate	BA
English (p. 202)	English	College of Arts and Letters	Undergraduate	Minor
English with a Concentration in Composition (http://catalog.csus.edu/colleges/arts-letters/english/ma-in-english-composition/)	English	College of Arts and Letters	Graduate	MA
English with a Concentration in Creative Writing (p. 197)	English	College of Arts and Letters	Graduate	MA

English with a Concentration in Literature (p. 198)	English	College of Arts and Letters	Graduate	MA
Environmental Studies (p. 937)	Environmental Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Environmental Studies (p. 939)	Environmental Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BS
Environmental Studies (p. 940)	Environmental Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Ethnic Studies (p. 959)	Ethnic Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Ethnic Studies with a Concentration in Asian American Studies (p. 948)	Ethnic Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Ethnic Studies with a Concentration in Chicana/o Studies (p. 949)	Ethnic Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Ethnic Studies with a Concentration in General Studies (p. 951)	Ethnic Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Ethnic Studies with a Concentration in Native-American Studies (p. 952)	Ethnic Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Ethnic Studies with a Concentration in Pan African Studies (p. 954)	Ethnic Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Ethnic Studies with a Concentration in Teachers in Bilingual Education (p. 955)	Ethnic Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Ethnic Studies with a Concentration in Teachers in Urban Settings (p. 956)	Ethnic Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Event Planning (p. 750)	Recreation, Parks, and Tourism Administration	College of Health and Human Services	Undergraduate	Certificate
Family and Consumer Sciences (p. 974)	Family and Consumer Sciences	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Family Studies and Human Development (p. 969)	Family and Consumer Sciences	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BS
Fashion Merchandising and Management (p. 971)	Family and Consumer Sciences	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BS

Family and Consumer Sciences with a Concentration in Nutrition and Food (Dietetics Emphasis) (http://catalog.csus.edu/colleges/social-sciences-interdisciplinary-studies/family-consumer-sciences/bs-in-family-and-consumer-sciences-dietetics/)	Family and Consumer Sciences	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BS
Family Life Education (p. 976)	Family and Consumer Sciences	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Certificate
Film (p. 155)	Communication Studies	College of Arts and Letters	Undergraduate	Minor
Film with a Concentration in Digital Video/Video Production (p. 152)	Communication Studies	College of Arts and Letters	Undergraduate	BA
Film with a Concentration in Film Studies (p. 154)	Communication Studies	College of Arts and Letters	Undergraduate	BA
Forensics Investigations (p. 665)	Division of Criminal Justice	College of Health and Human Services	Undergraduate	Minor
French (p. 308)	World Languages and Literatures	College of Arts and Letters	Undergraduate	BA
French (p. 309)	World Languages and Literatures	College of Arts and Letters	Undergraduate	Minor
Game Engineering (p. 586)	Computer Science	College of Engineering and Computer Science	Undergraduate	Certificate
General Teaching Multiple and Single Preliminary (p. 504)	Branch of Graduate and Professional Studies in Education	College of Education	Undergraduate	Credential
Geographic Information Systems (p. 842)	Geography	College of Natural Sciences and Mathematics	Undergraduate	Minor
Geography (p. 843)	Geography	College of Natural Sciences and Mathematics	Undergraduate	Minor
Geography with a Concentration in Geographic Information Systems and Analysis (p. 835)	Geography	College of Natural Sciences and Mathematics	Undergraduate	BA
Geography with a Concentration in Human Geography (p. 836)	Geography	College of Natural Sciences and Mathematics	Undergraduate	BA
Geography with a Concentration in Metropolitan Area Planning (https://nextcatalog.csus.edu/colleges/natural-sciences-mathematics/geography/ba-in-geography-metropolitan-area-planning/)	Geography	College of Natural Sciences and Mathematics	Undergraduate	BA
Geography with a Concentration in Physical Geography (p. 840)	Geography	College of Natural Sciences and Mathematics	Undergraduate	BA
Geology (p. 851)	Geology	College of Natural Sciences and Mathematics	Undergraduate	BA
Geology (p. 853)	Geology	College of Natural Sciences and Mathematics	Undergraduate	BS

Geology (p. 855)	Geology	College of Natural Sciences and Mathematics	Undergraduate	Minor
Geology (p. 855)	Geology	College of Natural Sciences and Mathematics	Graduate	MS
German (p. 312)	World Languages and Literatures	College of Arts and Letters	Undergraduate	Minor
Gerontology (p. 980)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BS
Gerontology (p. 982)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Gerontology (p. 981)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Graduate	Certificate
Global and Multicultural Perspectives (p. 1113)	Special Programs	Office of Academic Affairs	Undergraduate	Certificate
Graphic Design (p. 165)	Design	College of Arts and Letters	Undergraduate	BFA
Health Science (p. 631)	College of Health and Human Services	College of Health and Human Services	Undergraduate	BS
Health Science (p. 733)	Public Health	College of Health and Human Services	Undergraduate	Minor
Healthcare Spanish (p. 322)	World Languages and Literatures	College of Arts and Letters	Undergraduate	Certificate
Higher Education Leadership (p. 431)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	MA
History (p. 219)	History	College of Arts and Letters	Undergraduate	BA
History (p. 225)	History	College of Arts and Letters	Undergraduate	Minor
History Standard Program - Comprehensive Option (p. 220)	History	College of Arts and Letters	Graduate	MA
History Standard Programs - Specialized Option (p. 222)	History	College of Arts and Letters	Graduate	MA
Honors (p. 1131)	Special Programs	Office of Academic Affairs	Undergraduate	GE
Hospitality and Tourism Administration (p. 750)	Recreation, Parks, and Tourism Administration	College of Health and Human Services	Undergraduate	Certificate
Humanities (p. 241)	Humanities and Religious Studies	College of Arts and Letters	Undergraduate	Minor
Humanities (p. 240)	Humanities and Religious Studies	College of Arts and Letters	Graduate	MA
Humanities and Religious Studies (p. 237)	Humanities and Religious Studies	College of Arts and Letters	Undergraduate	BA
Humanities and Religious Studies with a Concentration in Religious Studies (p. 238)	Humanities and Religious Studies	College of Arts and Letters	Undergraduate	BA
Information Assurance and Security (p. 587)	Computer Science	College of Engineering and Computer Science	Graduate	Certificate
Information Security and Computer Forensics (p. 588)	Computer Science	College of Engineering and Computer Science	Undergraduate	Minor
Integrated Mathematics Major/Single Subject Credential (p. 866)	Mathematics and Statistics	College of Natural Sciences and Mathematics	Undergraduate	BA
Intelligent Systems (p. 587)	Computer Science	College of Engineering and Computer Science	Graduate	Certificate
Interior Architecture (p. 168)	Department of Design	College of Arts and Letters	Undergraduate	BFA

International Relations (p. 1045)	Political Science	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Issues in Natural Resource Management (p. 799)	Biological Sciences	College of Natural Sciences and Mathematics	Undergraduate	Certificate
Italian (p. 314)	World Languages and Literatures	College of Arts and Letters	Undergraduate	Minor
Japanese (p. 316)	World Languages and Literatures	College of Arts and Letters	Undergraduate	Minor
Journalism (p. 159)	Journalism	College of Arts and Letters	Undergraduate	BA
Journalism (p. 161)	Journalism	College of Arts and Letters	Undergraduate	Minor
Judicial Administration (p. 1077)	Public Policy and Administration	College of Social Sciences and Interdisciplinary Studies	Graduate	Certificate
Kinesiology with a Concentration in Athletic Training (http://catalog.csus.edu/colleges/health-human-services/kinesiology/bs-in-kinesiology-athletic-training/)	Kinesiology and Health Science	College of Health and Human Services	Undergraduate	BS
Kinesiology with a Concentration in Exercise Science (http://catalog.csus.edu/colleges/health-human-services/kinesiology/bs-in-kinesiology-exercise-science/)	Kinesiology and Health Science	College of Health and Human Services	Undergraduate	BS
Kinesiology with a Concentration in Exercise Science (p. 690)	Kinesiology and Health Science	College of Health and Human Services	Graduate	MS
Kinesiology with a Concentration in Movement Studies (p. 692)	Kinesiology and Health Science	College of Health and Human Services	Graduate	MS
Kinesiology with a Concentration in Physical Education (p. 687)	Kinesiology and Health Science	College of Health and Human Services	Undergraduate	BS
Labor Studies (p. 983)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Latin American Studies (p. 225)	History	College of Arts and Letters	Undergraduate	Minor
LGBTQ Studies (p. 1098)	Women's Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Liberal Studies with a Concentration in American Studies (p. 984)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Liberal Studies with a Concentration in Art (p. 986)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA

Liberal Studies with a Concentration in California Studies (p. 989)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Liberal Studies with a Concentration in Foreign Language (p. 991)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Liberal Studies with a Concentration in Human Development (p. 993)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Liberal Studies with a Concentration in Linguistics/ Composition (p. 995)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Liberal Studies with a Concentration in Literature (p. 997)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Liberal Studies with a Concentration in Mathematics (p. 999)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Liberal Studies with a Concentration in Multicultural Studies (p. 1001)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Liberal Studies with a Concentration in Music (p. 1004)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Liberal Studies with a Concentration in Natural Science (p. 1006)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Liberal Studies with a Concentration in Physical Education (p. 1008)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Liberal Studies with a Concentration in Theatre (p. 1010)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Liberal Studies with a Concentration in United States History (p. 1012)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Liberal Studies with a Concentration in World History (p. 1015)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Management of Human Resources and Organizational Behavior	College of Business Administration	College of Business Administration	Undergraduate	Minor
Marine Sciences (p. 809)	Biological Sciences	College of Natural Sciences and Mathematics	Graduate	MS
Marketing	College of Business Administration	College of Business Administration	Undergraduate	Minor
Mathematics (p. 864)	Mathematics and Statistics	College of Natural Sciences and Mathematics	Undergraduate	BA
Mathematics (p. 869)	Mathematics and Statistics	College of Natural Sciences and Mathematics	Undergraduate	Minor
Mathematics (p. 868)	Mathematics and Statistics	College of Natural Sciences and Mathematics	Graduate	MA

Mathematics Education (https://nextcatalog.csus.edu/colleges/education/graduate-professional-studies-education/certificate-of-competency-in-mathematics-education/)	Branch of Teaching Credentials	College of Education	Undergraduate	Certificate
Mechanical Engineering (p. 626)	Mechanical Engineering	College of Engineering and Computer Science	Undergraduate	BS
Mechanical Engineering (p. 625)	Mechanical Engineering	College of Engineering and Computer Science	Undergraduate	Blended BS/MS
Mechanical Engineering (p. 628)	Mechanical Engineering	College of Engineering and Computer Science	Graduate	MS
Metropolitan Planning (p. 842)	Geography	College of Natural Sciences and Mathematics	Undergraduate	Certificate
Middle East and Islamic Studies (p. 243)	History	College of Arts and Letters	Undergraduate	Minor
Military Studies (p. 1017)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Minor Hellenic Studies (p. 204)	History	College of Arts and Letters	Undergraduate	Minor
Mixed Signal Integrated Circuit Design (p. 609)	Electrical and Electronic Engineering	College of Engineering and Computer Science	Graduate	Certificate
Multicultural Education (p. 434)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	MA
Multiple Subject Blended Option (https://nextcatalog.csus.edu/colleges/education/teaching-credentials/mutliple-subject-teaching-credential/)	Branch of Teaching Credentials	College of Education	Undergraduate	Credential
Multiple Subject Elementary Teaching (p. 504)	Branch of Teaching Credentials	College of Education	Undergraduate	Credential
Multiple Subject Evening Option (p. 504)	Branch of Teaching Credentials	College of Education	Undergraduate	Credential
Multiple Subject Intern Option (p. 504)	Branch of Teaching Credentials	College of Education	Undergraduate	Credential
Multiple Subject Teaching Credential Pathways (p. 504)	Branch of Graduate and Professional Studies in Education	College of Education	Undergraduate	Credential
Multiple Subject, English Language Authorization Enhanced (p. 504)	Branch of Graduate and Professional Studies in Education	College of Education	Undergraduate	Credential
Music (p. 259)	School of Music	College of Arts and Letters	Undergraduate	BA
Music (p. 276)	School of Music	College of Arts and Letters	Undergraduate	Minor
Music with a Concentration in Composition (p. 273)	School of Music	College of Arts and Letters	Graduate	MM
Music with a Concentration in Conducting (p. 274)	School of Music	College of Arts and Letters	Graduate	MM

Music with a Concentration in Instrumental (p. 261)	School of Music	College of Arts and Letters	Undergraduate	BM
Music with a Concentration in Jazz (p. 263)	School of Music	College of Arts and Letters	Undergraduate	BM
Music with a Concentration in Keyboard (p. 265)	School of Music	College of Arts and Letters	Undergraduate	BM
Music with a Concentration in Music Education (p. 267)	School of Music	College of Arts and Letters	Undergraduate	BM
Music with a Concentration in Performance (p. 275)	School of Music	College of Arts and Letters	Graduate	MM
Music with a Concentration in Theory/ Composition (p. 269)	School of Music	College of Arts and Letters	Undergraduate	BM
Music with a Concentration in Voice (p. 271)	School of Music	College of Arts and Letters	Undergraduate	BM
Musical Theatre (p. 301)	Theatre and Dance	College of Arts and Letters	Undergraduate	Minor
Native American Studies (p. 960)	Ethnic Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Natural Resources Administration (p. 750)	Recreation, Parks, and Tourism Administration	College of Health and Human Services	Undergraduate	Certificate
Non-Profit Admininstration (p. 752)	Recreation, Parks, and Tourism Administration	College of Health and Human Services	Undergraduate	Minor
Non-Profit Administration (p. 751)	Recreation, Parks, and Tourism Administration	College of Health and Human Services	Undergraduate	Certificate
Nursing (p. 704)	School of Nursing	College of Health and Human Services	Graduate	MS
Nursing (Pre-Licensure) (p. 701)	School of Nursing	College of Health and Human Services	Undergraduate	BS
Nutrition and Food (p. 972)	Family and Consumer Sciences	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BS
Occupational Health and Safety (http://catalog.csus.edu/colleges/health-human-services/health-science/minor-occupational-health-safety/)	Kinesiology and Health Science	College of Health and Human Services	Undergraduate	Minor
Outdoor Adventure Administration (p. 751)	Recreation, Parks, and Tourism Administration	College of Health and Human Services	Undergraduate	Certificate
Pan African Studies (p. 958)	Ethnic Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Certificate
Peace and Conflict Resolution (p. 1018)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Peace Corps Certificate (p. 1018)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Certificate
Performance (p. 277)	School of Music	College of Arts and Letters	Graduate	Certificate
Personal Trainer/ Strength And Conditioning (p. 689)	Kinesiology and Health Science	College of Health and Human Services	Undergraduate	Certificate
Philosophy (p. 284)	Philosophy	College of Arts and Letters	Undergraduate	BA
Philosophy (p. 288)	Philosophy	College of Arts and Letters	Undergraduate	Minor

Philosophy with a Concentration in Ethics, Politics, and Law (p. 282)	Philosophy	College of Arts and Letters	Undergraduate	BA
Philosophy with a Concentration in Logic and Philosophy of Science (p. 286)	Philosophy	College of Arts and Letters	Undergraduate	BA
Philosophy with Honors Program (p. 286)	Philosophy	College of Arts and Letters	Undergraduate	BA
Photography (p. 171)	Department of Design	College of Arts and Letters	Undergraduate	BFA
Physical Therapy (p. 715)	Physical Therapy	College of Health and Human Services	Graduate	Dr
Physics (p. 885)	Physics and Astronomy	College of Natural Sciences and Mathematics	Undergraduate	Minor
Physics (p. 878)	Physics and Astronomy	College of Natural Sciences and Mathematics	Undergraduate	BA
Physics (p. 881)	Physics and Astronomy	College of Natural Sciences and Mathematics	Undergraduate	BS
Physics with a Concentration in Applied Physics (p. 883)	Physics and Astronomy	College of Natural Sciences and Mathematics	Undergraduate	BS
Physics with a Concentration in Teacher Preparation (p. 879)	Physics and Astronomy	College of Natural Sciences and Mathematics	Undergraduate	BA
Political Science (p. 1047)	Political Science	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Political Science (p. 1054)	Political Science	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Political Science with a Concentration in California and its Political Environment (p. 1050)	Political Science	College of Social Sciences and Interdisciplinary Studies	Graduate	MA
Political Science with a Concentration in International Relations/ Comparative Government (p. 1051)	Political Science	College of Social Sciences and Interdisciplinary Studies	Graduate	MA
Political Science with a Concentration in Journalism (p. 1048)	Political Science	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Political Science with a Concentration in Political Theory (p. 1053)	Political Science	College of Social Sciences and Interdisciplinary Studies	Graduate	MA
Political Science and Journalism (p. 1048)	Political Science	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Post-Master's School Nurse Services (p. 707)	School of Nursing	College of Health and Human Services	Graduate	Credential
Prehealth Professional Program (p. 885)	Biological Sciences & Chemistry	College of Natural Sciences and Mathematics	Undergraduate	
Preliminary Administrative Services (p. 445)	Branch of Graduate and Professional Studies in Education	College of Education	Undergraduate	Credential
Preliminary Administrative Services Internship (p. 446)	Branch of Graduate and Professional Studies in Education	College of Education	Undergraduate	Credential

Preliminary Mild-Moderate Education Specialist (p. 466)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	Credential
Preliminary Moderate-Severe Specialist (p. 475)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	Credential
Preliminary Moderate-Severe Specialist and Multiple Subjects (p. 480)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	Credential
Preliminary Multiple Subject and Mild-Moderate Education Specialist (p. 471)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	Credential
Psychology (p. 1065)	Psychology	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Psychology (p. 1072)	Psychology	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Psychology with a Concentration in Applied Behavior Analysis (p. 1069)	Psychology	College of Social Sciences and Interdisciplinary Studies	Graduate	MA
Psychology with a Concentration in General Psychology (p. 1069)	Psychology	College of Social Sciences and Interdisciplinary Studies	Graduate	MA
Psychology with a Concentration in Industrial/ Organizational Psychology (p. 1070)	Psychology	College of Social Sciences and Interdisciplinary Studies	Graduate	MA
Public Health with a Concentration in Community Health Education (p. 726)	Public Health	College of Health and Human Services	Undergraduate	BS
Public Health with a Concentration in Health Care Administration (p.)	Public Health	College of Health and Human Services	Undergraduate	BS
Public Health with a Concentration in Occupational Health and Safety (p. 730)	Public Health	College of Health and Human Services	Undergraduate	BS
Public History (p. 223)	History	College of Arts and Letters	Graduate	MA
Public History (p. 226)	History	College of Arts and Letters	Graduate	PhD
Public Health (p. 732)	Public Health	College of Health and Human Services	Graduate	MPH
Public Policy and Administration (p. 1077)	Public Policy and Administration	College of Social Sciences and Interdisciplinary Studies	Graduate	MPPA
Pupil Personnel Services School Counseling (p. 446)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	Credential
Pupil Personnel Services School Counseling Internship (p. 446)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	Credential
Pupil Personnel Services: School Psychology Endorsement (p. 447)	Branch of Teaching Credentials	College of Education	Undergraduate	Credential

Reading (https://nextcatalog.csusb.edu/colleges/education/graduate-professional-studies-education/certificate-of-competency-in-reading/)	Branch of Teaching Credentials	College of Education	Undergraduate	Certificate
Reading to Adults (https://nextcatalog.csus.edu/colleges/education/graduate-professional-studies-education/certificate-of-competency-in-teaching-reading-to-adults/)	Branch of Teaching Credentials	College of Education	Undergraduate	Certificate
Reading-Language Arts Specialist (p. 448)	Branch of Teaching Credentials	College of Education	Undergraduate	Credential
Real Estate and Land Use Affairs	College of Business Administration	College of Business Administration	Undergraduate	Minor
Recreation Administration (p. 752)	Recreation, Parks, and Tourism Administration	College of Health and Human Services	Undergraduate	Minor
Recreation Administration (p. 753)	Recreation, Parks, and Tourism Administration	College of Health and Human Services	Graduate	MS
Recreation Administration with a Concentration in Recreation and Park Management (p. 745)	Recreation, Parks, and Tourism Administration	College of Health and Human Services	Undergraduate	BS
Recreation Therapy (p. 749)	Recreation, Parks, and Tourism Administration	College of Health and Human Services	Undergraduate	BS
Resource Planning (p. 842)	Geography	College of Natural Sciences and Mathematics	Undergraduate	Certificate
Risk Management and Insurance	College of Business Administration	College of Business Administration	Undergraduate	Minor
RN to BSN (Track A) and ADN to BSN Collaborative Track (p. 705)	School of Nursing	College of Health and Human Services	Undergraduate	BS
RN to BSN (Track B) (p. 707)	School of Nursing	College of Health and Human Services	Undergraduate	BS
ROTC (p. 1132)	Office of Academic Affairs	Office of Academic Affairs		
School Psychology (p. 435)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	MA
School Psychology (p. 423)	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	EdS
Scientific Computing and Simulation (p. 884)	Physics and Astronomy	College of Natural Sciences and Mathematics	Undergraduate	Certificate
Scientific Instrument Development (p. 885)	Physics and Astronomy	College of Natural Sciences and Mathematics	Undergraduate	Certificate
Single Subject Credential in Physical Education (K-12) (p. 693)	Kinesiology and Health Science	College of Health and Human Services	Graduate	Credential
Single Subject Matter Program (p. 202)	English	College of Arts and Letters	Undergraduate	
Single Subject Matter Program (Family and Consumer Sciences) (p. 974)	Family and Consumer Sciences	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BS, Certificate
Social Science (p. 1079)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA

Social Work (p. 762)	Division of Social Work	College of Health and Human Services	Undergraduate	BA
Social Work (p. 764)	Division of Social Work	College of Health and Human Services	Graduate	MSW
Sociology (p. 1089)	Sociology	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BA
Sociology (p. 1091)	Sociology	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Sociology (p. 1090)	Sociology	College of Social Sciences and Interdisciplinary Studies	Graduate	MA
Software Engineering (p. 591)	Computer Science	College of Engineering and Computer Science	Graduate	MS
Software Engineering (p. 587)	Computer Science	College of Engineering and Computer Science	Graduate	Certificate
Spanish (p. 321)	World Languages and Literatures	College of Arts and Letters	Undergraduate	BA
Spanish (p. 324)	World Languages and Literatures	College of Arts and Letters	Undergraduate	Minor
Spanish (p. 322)	World Languages and Literatures	College of Arts and Letters	Graduate	MA
Special Education	Branch of Graduate and Professional Studies in Education	College of Education	Graduate	MA
Special Major (p. 1136)	Office of Academic Affairs	Office of Academic Affairs	Undergraduate	BA
Special Major (p. 1136)	Office of Academic Affairs	Office of Academic Affairs	Undergraduate	BS
Special Major (p. 1136)	Office of Academic Affairs	Office of Academic Affairs	Graduate	MA
Special Major (p. 1136)	Office of Academic Affairs	Office of Academic Affairs	Graduate	MS
Special Matter Program (p. 226)	History	College of Arts and Letters	Undergraduate	
Special Minor (p. 1136)	Office of Academic Affairs	Office of Academic Affairs	Undergraduate	Minor
Special Teaching Authorization in Health (p. 708)	School of Nursing	College of Health and Human Services	Graduate	Credential
Statistics (p. 870)	Mathematics and Statistics	College of Natural Sciences and Mathematics	Undergraduate	Minor
Studio Art (p. 128)	Art	College of Arts and Letters	Graduate	BFA
Subject Matter Program (p. 310)	World Languages and Literatures	College of Arts and Letters	Undergraduate	
Subject Matter Program (p. 312)	World Languages and Literatures	College of Arts and Letters	Undergraduate	
Subject Matter Program (Athletic Training) (p. 694)	Kinesiology and Health Science	College of Health and Human Services	Undergraduate	
Supplementary Authorization in Physical Education (p. 690)	Kinesiology and Health Science	College of Health and Human Services	Undergraduate	Minor
Systems Software (p. 587)	Computer Science	College of Engineering and Computer Science	Undergraduate	Certificate
Systems Software (p. 588)	Computer Science	College of Engineering and Computer Science	Graduate	Certificate
Teaching Composition (p. 195)	English	College of Arts and Letters	Graduate	Certificate
Teaching English to Speakers of Other Languages (TESOL) (p. 202)	English	College of Arts and Letters	Undergraduate	Minor

Teaching English to Speakers of Other Languages (TESOL) (p. 200)	English	College of Arts and Letters	Graduate	MA
Teaching, Equity, and Engagement (p. 547)	Branch of Undergraduate Studies in Education	College of Education	Undergraduate	Minor
TESOL (p. 196)	English	College of Arts and Letters	Undergraduate	Certificate
Theatre (p. 299)	Theatre and Dance	College of Arts and Letters	Undergraduate	BA
Theatre (p. 301)	Theatre and Dance	College of Arts and Letters	Undergraduate	Minor
Urban Land Development (p. 1092)	College of Social Sciences and Interdisciplinary Studies	College of Social Sciences and Interdisciplinary Studies	Graduate	MS
Wastewater Treatment Plant Operations Specialist (http://catalog.csus.edu/colleges/engineering-computer-science/engineering-civil/certificate-in-wastewater-treatment/)	Civil Engineering	College of Engineering and Computer Science	Undergraduate	Certificate
Women's Studies (p. 1096)	Women's Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	BS
Women's Studies (p. 1098)	Women's Studies	College of Social Sciences and Interdisciplinary Studies	Undergraduate	Minor
Workforce Development Advocacy (p. 437)	Branch of Undergraduate Studies in Education	College of Education	Graduate	MA
Teaching with Education Specialist Early Childhood Special Education Teaching Credential (http://catalog.csus.edu/colleges/education/teaching-credentials/ma-in-teaching-with-education-specialist-early-childhood-special-educati/)	Teaching Credentials	College of Education	Graduate	MA
Teaching with Education Specialist Mild/Moderate Teaching Credential (p. 487)	Teaching Credentials	College of Education	Graduate	MA
Teaching with Education Specialist Mild/Moderate Teaching Credential (Multiple Subject) (p. 492)	Teaching Credentials	College of Education	Graduate	MA
Teaching with Education Specialist Moderate/Severe Teaching Credential (p. 494)	Teaching Credentials	College of Education	Graduate	MA
Teaching with Education Specialist Moderate/Severe Teaching Credential (Multiple Subject) (p. 497)	Teaching Credentials	College of Education	Graduate	MA

Teaching with Multiple Subject Teaching Credential (p. 499)	Teaching Credentials	College of Education	Graduate	MA
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